UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

\boxtimes	QUARTERLY REPORT PURSUANT TO SECTION 13	FORM 10-Q OR 15(d) OF THE SECURIT	IES EXCHANGE ACT OF 1934
	FOR THE QUARTER	RLY PERIOD ENDED	SEPTEMBER 30, 2021
	TRANSITION REPORT PURSUANT TO SECTION 13	— OR — OR 15(d) OF THE SECURIT	TES EXCHANGE ACT OF 1934
	Fo	or the transition period from	to
	C	ommission File Number 001-3	8086
		Vistra Corp.	
	•	name of registrant as specified in i	ts charter)
	Delaware		36-4833255
	(State or other jurisdiction of incorporation or organization)	1	(I.R.S. Employer Identification No.)
	6555 Sierra Drive, Irving, Texas 75039		(214) 812-4600
	(Address of principal executive offices) (Zip Code)		(Registrant's telephone number, including area code)
			10d) fil A
	Securities re Title of Each Class	gistered pursuant to Section 1 Trading Symbol(s)	L2(b) of the Act: Name of Each Exchange on Which Registered
	Common stock, par value \$0.01 per share	VST	New York Stock Exchange
	Warrants	VST.WS.A	New York Stock Exchange
12 mo ⊠ N	nths (or for such shorter period that the registrant was require to \Box	d to file such reports) and (2)	13 or 15(d) of the Securities Exchange Act of 1934 during the preceding has been subject to such filing requirements for the past 90 days. Yes
	405 of this chapter) during the preceding 12 months (or for suc		
			n-accelerated filer, a smaller reporting company, or an emerging growth pany," and "emerging growth company" in Rule 12b-2 of the Exchange
	Large accelerated filer $oxtimes$ Accelerated filer $oxtimes$ No.	on-accelerated filer Smaller	reporting company \square Emerging growth company \square
	emerging growth company, indicate by check mark if the regial accounting standards provided pursuant to Section 13(a) of t		the extended transition period for complying with any new or revised
Indica	te by check mark whether the registrant is a shell company (as	defined in Rule 12b-2 of the Ex	change Act). Yes □ No ⊠
As of	November 2, 2021, there were 482,627,520 shares of common	stock, par value \$0.01, outstand	ling of Vistra Corp.

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Vistra Corp.'s (Vistra) annual reports, quarterly reports, current reports and any amendments to those reports are made available to the public, free of charge, on the Vistra website at http://www.vistracorp.com, as soon as reasonably practicable after they have been filed with or furnished to the Securities and Exchange Commission pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended. Additionally, Vistra posts important information, including press releases, investor presentations, sustainability reports, and notices of upcoming events on its website and utilizes its website as a channel of distribution to reach public investors and as a means of disclosing material non-public information for complying with disclosure obligations under Regulation FD. Investors may be notified of posting to the website by signing up for email alerts and RSS feeds on the "Investor Relations" page of Vistra's website. The information on Vistra's website shall not be deemed a part of, or incorporated by reference into, this quarterly report on Form 10-Q. The representations and warranties contained in any agreement that we have filed as an exhibit to this quarterly report on Form 10-Q, or that we have or may publicly file in the future, may contain representations and warranties that may (i) be made by and to the parties thereto at specific dates, (ii) be subject to exceptions and qualifications contained in separate disclosure schedules, (iii) represent the parties' risk allocation in the particular transaction, or (iv) be qualified by materiality standards that differ from what may be viewed as material for securities law purposes.

This quarterly report on Form 10-Q and other Securities and Exchange Commission filings of Vistra and its subsidiaries occasionally make references to Vistra (or "we," "our," "us" or "the Company"), Luminant, TXU Energy, Ambit, Value Based Brands, Dynegy Energy Services, Homefield Energy, TriEagle Energy, Public Power or U.S. Gas & Electric, when describing actions, rights or obligations of their respective subsidiaries. These references reflect the fact that the subsidiaries are consolidated with, or otherwise reflected in, the Vistra financial statements for financial reporting purposes. However, these references should not be interpreted to imply that the parent company is actually undertaking the action or has the rights or obligations of the relevant subsidiary company or vice versa.

Luminant

GLOSSARY

When the following terms and abbreviations appear in the text of this report, they have the meanings indicated below.

When the following terms and al	bbreviations appear in the text of this report, they have the meanings indicated below.
2020 Form 10-K	Vistra's annual report on Form 10-K for the year ended December 31, 2020, filed with the SEC on February 26, 2021
Ambit or Ambit Energy	Ambit Holdings, LLC, and/or its subsidiaries (d/b/a Ambit), depending on context
ARO	asset retirement and mining reclamation obligation
CAISO	The California Independent System Operator
CARES Act	Coronavirus Aid, Relief, and Economic Security Act
CCGT	combined cycle gas turbine
CCR	coal combustion residuals
CFTC	U.S. Commodity Futures Trading Commission
CME	Chicago Mercantile Exchange
CO_2	carbon dioxide
CPUC	California Public Utilities Commission
Crius	Crius Energy Trust and/or its subsidiaries, depending on context
Dynegy	Dynegy Inc., and/or its subsidiaries, depending on context
Dynegy Energy Services	Dynegy Energy Services, LLC and Dynegy Energy Services (East), LLC (each d/b/a Dynegy, Better Buy Energy, Brighten Energy, Honor Energy and True Fit Energy), indirect, wholly owned subsidiaries of Vistra, that are REPs in certain areas of MISO and PJM, respectively, and are engaged in the retail sale of electricity to residential and business customers.
EBITDA	earnings (net income) before interest expense, income taxes, depreciation and amortization
Effective Date	October 3, 2016, the date our predecessor completed its reorganization under Chapter 11 of the U.S. Bankruptcy Code
Emergence	emergence of our predecessor from reorganization under Chapter 11 of the U.S. Bankruptcy Code as subsidiaries of a newly formed company, Vistra, on the Effective Date
EPA	U.S. Environmental Protection Agency
ERCOT	Electric Reliability Council of Texas, Inc.
ESS	energy storage system
Exchange Act	Securities Exchange Act of 1934, as amended
FERC	U.S. Federal Energy Regulatory Commission
GAAP	generally accepted accounting principles
GHG	greenhouse gas
GWh	gigawatt-hours
Homefield Energy	Illinois Power Marketing Company (d/b/a Homefield Energy), an indirect, wholly owned subsidiary of Vistra, a REP in certain areas of MISO that is engaged in the retail sale of electricity to municipal customers
ICE	Intercontinental Exchange
IEPA	Illinois Environmental Protection Agency
IPCB	Illinois Pollution Control Board
IRC	Internal Revenue Code of 1986, as amended
IRS	U.S. Internal Revenue Service
ISO	independent system operator
ISO-NE	ISO New England Inc.
LIBOR	London Interbank Offered Rate, an interest rate at which banks can borrow funds, in marketable size, from other banks in the London interbank market
load	demand for electricity
LTSA	long-term service agreements for plant maintenance
Luminant	subcidiaries of Victra engaged in competitive market activities consisting of electricity generation and vehalocale

subsidiaries of Vistra engaged in competitive market activities consisting of electricity generation and wholesale energy sales and purchases as well as commodity risk management

Heat rate is a measure of the efficiency of converting a fuel source to electricity. Market heat rate is the implied market heat rate relationship between wholesale electricity prices and natural gas prices and is calculated by dividing the wholesale market price of electricity, which is based on the price offer of the marginal supplier (generally natural gas plants), by the market price of natural gas. Merger the merger of Dynegy with and into Vistra, with Vistra as the surviving corporation April 9, 2018, the date Vistra and Dynegy completed the transactions contemplated by the Agreement and Plan of Merger, dated as of October 29, 2017, by and between Vistra and Dynegy **Merger Date** Midcontinent Independent System Operator, Inc. MISO **MMBtu** million British thermal units Moody's Moody's Investors Service, Inc. (a credit rating agency) **MSHA** U.S. Mine Safety and Health Administration MW megawatts MWh megawatt-hours NELP Northeast Energy, LP, a joint venture between Dynegy Northeast Generation GP, Inc. and Dynegy Northeast Associates LP, Inc., both indirect subsidiaries of Vistra, and certain subsidiaries of NextEra Energy, Inc. Prior to the NELP Transaction, NELP indirectly owned Bellingham NEA facility and the Sayreville facility a transaction among Dynegy Northeast Generation GP, Inc., Dynegy Northeast Associates LP, Inc. and certain subsidiaries of NextEra Energy, Inc. wherein the indirect subsidiaries of Vistra redeemed their ownership interest in NELP partnership in exchange for 100% ownership interest in NJEA, the entity which owns the Sayreville facility **NELP Transaction NERC** North American Electric Reliability Corporation **NJEA** North Jersey Energy Associates, A Limited Partnership NO_{X} nitrogen oxide **NRC** U.S. Nuclear Regulatory Commission **NYISO** New York Independent System Operator, Inc. NYMEX the New York Mercantile Exchange, a commodity derivatives exchange **OPEB** postretirement employee benefits other than pensions Vistra Corp. **Parent PJM** PJM Interconnection, LLC Third Amended Joint Plan of Reorganization filed by the parent company of our predecessor in August 2016 and Plan of Reorganization confirmed by the U.S. Bankruptcy Court for the District of Delaware in August 2016 solely with respect to our predecessor **PrefCo** Vistra Preferred Inc. PrefCo Preferred Stock Sale as part of the tax-free spin-off from Energy Future Holdings Corp., executed pursuant to the Plan of Reorganization on the Effective Date by our predecessor, the contribution of certain of the assets of our predecessor and its subsidiaries by a subsidiary of TEX Energy LLC to PrefCo in exchange for all of PrefCo's authorized preferred stock, consisting of 70,000 shares, par value \$0.01 per share

Public Power

PUCT

Public Power, LLC (d/b/a Public Power), an indirect, wholly owned subsidiary of Vistra, a REP in certain areas of PJM, ISO-NE, NYISO and MISO that is engaged in the retail sale of electricity to residential and business customers

Public Utility Commission of Texas

REP retail electric provider

RCT Railroad Commission of Texas, which among other things, has oversight of lignite mining activity in Texas, and has jurisdiction over oil and natural gas exploration and production, permitting and inspecting intrastate pipelines,

and overseeing natural gas utility rates and compliance

RTO regional transmission organization

S&P Standard & Poor's Ratings (a credit rating agency)

Vistra's 8.0% Series A Fixed Rate Reset Cumulative Redeemable Perpetual Preferred Stock, \$0.01 par value, with Series A Preferred Stock a liquidation preference of \$1,000 per share

SEC	U.S. Securities and Exchange Commission
Securities Act	Securities Act of 1933, as amended
SG&A	selling, general and administrative
SO_2	sulfur dioxide
Tax Matters Agreement	Tax Matters Agreement, dated as of the Effective Date, by and among Energy Future Holdings Corp. (EFH Corp.), Energy Future Intermediate Holding Company LLC, EFIH Finance Inc. and EFH Merger Co. LLC
ТСЕН	Texas Competitive Electric Holdings Company LLC, a direct, wholly owned subsidiary of Energy Future Competitive Holdings Company LLC, and, prior to the Effective Date, the parent company of our predecessor, depending on context, that were engaged in electricity generation and wholesale and retail energy market activities, and whose major subsidiaries included Luminant and TXU Energy
TCEQ	Texas Commission on Environmental Quality
TRA	Tax Receivables Agreement, containing certain rights (TRA Rights) to receive payments from Vistra related to certain tax benefits, including benefits realized as a result of certain transactions entered into at Emergence (see Note 7 to the Financial Statements)
TRE	Texas Reliability Entity, Inc., an independent organization that develops reliability standards for the ERCOT region and monitors and enforces compliance with NERC standards and monitors compliance with ERCOT protocols
TriEagle Energy	TriEagle Energy LP (d/b/a TriEagle Energy, TriEagle Energy Services, Eagle Energy, Energy Rewards, Power House Energy and Viridian Energy), an indirect, wholly owned subsidiary of Vistra, a REP in certain areas of ERCOT and PJM that is engaged in the retail sale of electricity to residential and business customers
TWh	terawatt-hours
TXU Energy	TXU Energy Retail Company LLC (d/b/a TXU), an indirect, wholly owned subsidiary of Vistra that is a REP in competitive areas of ERCOT and is engaged in the retail sale of electricity to residential and business customers
U.S.	United States of America
U.S. Gas & Electric	U.S. Gas and Electric, Inc. (d/b/a USG&E, Illinois Gas & Electric and ILG&E), an indirect, wholly owned subsidiary of Vistra, a REP in certain areas of PJM, ISO-NE, NYISO and MISO that is engaged in the retail sale of electricity to residential and business customers
Value Based Brands	Value Based Brands LLC (d/b/a 4Change Energy, Express Energy and Veteran Energy), an indirect, wholly owned subsidiary of Vistra that is a REP in competitive areas of ERCOT and is engaged in the retail sale of electricity to residential and business customers
Vistra	Vistra Corp. and/or its subsidiaries, depending on context. Effective July 2, 2020, Vistra Energy Corp. changed its name to Vistra Corp.
Vistra Intermediate	Vistra Intermediate Company LLC, a direct, wholly owned subsidiary of Vistra
Vistra Operations	Vistra Operations Company LLC, an indirect, wholly owned subsidiary of Vistra that is the issuer of certain series of notes (see Note 10 to the Financial Statements) and borrower under the Vistra Operations Credit Facilities
Vistra Operations Credit Facilities	Vistra Operations senior secured financing facilities (see Note 10 to the Financial Statements)

PART I. FINANCIAL INFORMATION

Item 1. FINANCIAL STATEMENTS

VISTRA CORP. CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (Unaudited) (Millions of Dollars, Except Per Share Amounts)

		Three Months En	ded S	eptember 30,		Nine Months Ended September 30,					
	2021			2020	2021			2020			
Operating revenues (Note 4)	\$	2,991	\$	3,552	\$	8,763	\$	8,919			
Fuel, purchased power costs and delivery fees		(1,763)		(1,469)		(7,827)		(3,832)			
Operating costs		(372)		(457)		(1,173)		(1,249)			
Depreciation and amortization		(468)		(410)		(1,355)		(1,284)			
Selling, general and administrative expenses		(269)		(268)		(771)		(755)			
Impairment of long-lived assets (Note 17)				(272)		(38)		(356)			
Operating income (loss)		119		676		(2,401)		1,443			
Other income (Note 17)		16		8		108		19			
Other deductions (Note 17)		(5)		_		(13)		(35)			
Interest expense and related charges (Note 17)		(124)		(101)		(288)		(541)			
Impacts of Tax Receivable Agreement (Note 7)		35		58		31		44			
Equity in earnings of unconsolidated investment								4			
Income (loss) before income taxes		41		641		(2,563)		934			
Income tax (expense) benefit (Note 6)		(31)		(199)		569		(283)			
Net income (loss)	\$	10	\$	442	\$	(1,994)	\$	651			
Net (income) loss attributable to noncontrolling interest		(3)		1		(6)		14			
Net income (loss) attributable to Vistra	\$	7	\$	443	\$	(2,000)	\$	665			
Weighted average shares of common stock outstanding:											
Basic		482,516,965		488,824,580		483,150,213		488,484,441			
Diluted		484,494,546		491,025,940		483,150,213		490,914,478			
Net income (loss) per weighted average share of common stock outstanding:											
Basic	\$	0.01	\$	0.91	\$	(4.14)	\$	1.36			
Diluted	\$	0.01	\$	0.90	\$	(4.14)	\$	1.35			

See Notes to the Condensed Consolidated Financial Statements.

CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS) (Unaudited) (Millions of Dollars)

	Three Months Ended September 30,					Nine Months Ended September 30,				
		2021		2020		2021		2020		
Net income (loss)	\$	10	\$	442	\$	(1,994)	\$	651		
Other comprehensive income (loss), net of tax effects:										
Effects related to pension and other retirement benefit obligations (net of tax (expense) benefit of \$(4), \$1, \$(5) and \$8)		14		(4)		17		(26)		
Total other comprehensive income (loss)		14		(4)		17		(26)		
Comprehensive income (loss)	\$	24	\$	438	\$	(1,977)	\$	625		
Comprehensive (income) loss attributable to noncontrolling interest		(3)		1		(6)		14		
Comprehensive income (loss) attributable to Vistra	\$	21	\$	439	\$	(1,983)	\$	639		

See Notes to the Condensed Consolidated Financial Statements.

VISTRA CORP. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited) (Millions of Dollars)

Deferred income tax expense (benefit), net Impairment of long-lived assets (Note 17) Loss on disposal of investment in NELP (Note 17) Unrealized net (gain) loss from mark-to-market valuations of commodities 771 Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps (92) Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) Stock-based compensation (587) (38)	1
Net income (loss) \$ (1,994) \$ Adjustments to reconcile net income (loss) to cash provided by (used in) operating activities: Depreciation and amortization 1,551 Deferred income tax expense (benefit), net (587) Impairment of long-lived assets (Note 17) 38 Loss on disposal of investment in NELP (Note 17) — Unrealized net (gain) loss from mark-to-market valuations of commodities 771 Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps (92) Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) (31) Stock-based compensation 36	<u>, </u>
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Depreciation and amortization 1,551 Deferred income tax expense (benefit), net (587) Impairment of long-lived assets (Note 17) 38 Loss on disposal of investment in NELP (Note 17) — Unrealized net (gain) loss from mark-to-market valuations of commodities 771 Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps (92) Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) (31) Stock-based compensation 36	651
Deferred income tax expense (benefit), net Impairment of long-lived assets (Note 17) Impairment of long-lived assets (Note 17) Loss on disposal of investment in NELP (Note 17) Unrealized net (gain) loss from mark-to-market valuations of commodities 771 Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps (92) Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) Stock-based compensation 36	
Impairment of long-lived assets (Note 17)38Loss on disposal of investment in NELP (Note 17)—Unrealized net (gain) loss from mark-to-market valuations of commodities771Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps(92)Asset retirement obligation accretion expense27Impacts of Tax Receivable Agreement (Note 7)(31)Stock-based compensation36	1,512
Loss on disposal of investment in NELP (Note 17) Unrealized net (gain) loss from mark-to-market valuations of commodities 771 Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps (92) Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) Stock-based compensation 36	264
Unrealized net (gain) loss from mark-to-market valuations of commodities 771 Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps (92) Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) (31) Stock-based compensation 36	356
Unrealized net (gain) loss from mark-to-market valuations of interest rate swaps Asset retirement obligation accretion expense Impacts of Tax Receivable Agreement (Note 7) Stock-based compensation (92) (31) 36	29
Asset retirement obligation accretion expense 27 Impacts of Tax Receivable Agreement (Note 7) (31) Stock-based compensation 36	(444)
Impacts of Tax Receivable Agreement (Note 7) (31) Stock-based compensation 36	181
Stock-based compensation 36	33
	(44)
	46
Other, net 79	115
Changes in operating assets and liabilities:	
Margin deposits, net (767)	60
Accrued interest (55)	(97)
Accrued taxes (63)	(35)
Accrued employee incentive (86)	(20)
Other operating assets and liabilities 680	(257)
Cash provided by (used in) operating activities (493)	2,350
Cash flows — investing activities:	
Capital expenditures, including nuclear fuel purchases and LTSA prepayments (790)	(838)
Proceeds from sales of nuclear decommissioning trust fund securities (Note 17) 366	291
Investments in nuclear decommissioning trust fund securities (Note 17) (382)	(307)
Proceeds from sales of environmental allowances 102	91
Purchases of environmental allowances (247)	(210)
Insurance proceeds 74	15
Proceeds from sale of assets 7	23
Other, net 27	8
Cash used in investing activities (843)	(927)
Cash flows — financing activities:	
Issuances of long-term debt (Note 10) 1,250	_
Borrowings under Term Loan A (Note 10) 1,250	_
Repayment under Term Loan A (Note 10) (1,250)	_
Proceeds from forward capacity agreement (Note 10) 500	
Repayments/repurchases of debt (Note 10) (234)	(955)
Net borrowings under accounts receivable financing (Note 9) 175	175
Borrowings under Revolving Credit Facility (Note 10) 1,300	1,075
Repayments under Revolving Credit Facility (Note 10) (1,300)	1,425)
Share repurchases (Note 12) (175)	_
Dividends paid to stockholders (Note 12) (219)	(198)
Debt tender offer and other financing fees (Note 10) (13)	(17)
Other, net (5)	(3)
Cash provided by (used in) financing activities 1,279 (1,348)

VISTRA CORP. CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited) (Millions of Dollars)

	Nine Months Ended September 30,			
	2021	2020		
Net change in cash, cash equivalents and restricted cash	(57)	75		
Cash, cash equivalents and restricted cash — beginning balance	444	475		
Cash, cash equivalents and restricted cash — ending balance	\$ 387	\$ 550		

See Notes to the Condensed Consolidated Financial Statements.

VISTRA CORP. CONDENSED CONSOLIDATED BALANCE SHEETS (Unaudited) (Millions of Dollars)

(Unaudited) (Millions of Dollars)									
	Se	eptember 30, 2021		December 31, 2020					
ASSETS									
Current assets:									
Cash and cash equivalents	\$	351	\$	406					
Restricted cash (Note 17)		22		19					
Trade accounts receivable — net (Note 17)		1,529		1,279					
Income taxes receivable		7		_					
Inventories (Note 17)		471		515					
Commodity and other derivative contractual assets (Note 14)		4,187		748					
Margin deposits related to commodity contracts		1,048		257					
Prepaid expense and other current assets		231		205					
Total current assets		7,846		3,429					
Restricted cash (Note 17)		14		19					
Investments (Note 17)		1,915		1,759					
Property, plant and equipment — net (Note 17)		13,100		13,499					
Operating lease right-of-use assets		35		45					
Goodwill (Note 5)		2,583		2,583					
Identifiable intangible assets — net (Note 5)		2,229		2,446					
Commodity and other derivative contractual assets (Note 14)		454		258					
Accumulated deferred income taxes		1,421		838					
Other noncurrent assets		335		332					
Total assets	\$	29,932	\$	25,208					
LIABILITIES AND EQUITY									
Current liabilities:									
Accounts receivable financing (Note 9)		475		300					
Long-term debt due currently (Note 10)		382		95					
Trade accounts payable		1,172		880					
Commodity and other derivative contractual liabilities (Note 14)		4,948		789					
Margin deposits related to commodity contracts		57		33					
Accrued income taxes		_		16					
Accrued taxes other than income		163		210					
Accrued interest		76		131					
Asset retirement obligations (Note 17)		110		103					
Operating lease liabilities		5		8					
Other current liabilities		534		471					
Total current liabilities		7,922		3,036					

VISTRA CORP. CONDENSED CONSOLIDATED BALANCE SHEETS (Unaudited) (Millions of Dollars)

(Change of 2 states)	September 30, 2021	December 31, 2020
Long-term debt, less amounts due currently (Note 10)	10,493	9,235
Operating lease liabilities	33	40
Commodity and other derivative contractual liabilities (Note 14)	896	624
Accumulated deferred income taxes	1	1
Tax Receivable Agreement obligation (Note 7)	416	447
Asset retirement obligations (Note 17)	2,326	2,333
Other noncurrent liabilities and deferred credits (Note 17)	1,814	1,131
Total liabilities	23,901	16,847
Commitments and Contingencies (Note 11)		
Total equity (Note 12):		
Common stock (par value — \$0.01; number of shares authorized — 1,800,000,000) (shares outstanding: September 30, 2021 — 482,551,344; December 31, 2020 — 489,305,888)	5	5
Treasury stock, at cost (shares: September 30, 2021 — 49,701,377; December 31, 2020 — 41,043,224)	(1,148)	(973)
Additional paid-in-capital	9,829	9,786
Retained deficit	(2,619)	(399)
Accumulated other comprehensive loss	(31)	(48)
Stockholders' equity	6,036	8,371
Noncontrolling interest in subsidiary	(5)	(10)
Total equity	6,031	8,361
Total liabilities and equity	\$ 29,932	\$ 25,208

See Notes to the Condensed Consolidated Financial Statements.

VISTRA CORP. NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

1. BUSINESS AND SIGNIFICANT ACCOUNTING POLICIES

Description of Business

References in this report to "we," "our," "us" and "the Company" are to Vistra and/or its subsidiaries, as apparent in the context. See *Glossary* for defined terms.

Vistra is a holding company operating an integrated retail and electric power generation business primarily in markets throughout the U.S. Through our subsidiaries, we are engaged in competitive energy market activities including power generation, wholesale energy sales and purchases, commodity risk management and retail sales of electricity and natural gas to end users.

Vistra has six reportable segments: (i) Retail, (ii) Texas, (iii) East, (iv) West, (v) Sunset and (vi) Asset Closure. See Note 16 for further information concerning reportable business segments.

Winter Storm Uri

In February 2021, a severe winter storm with extremely cold temperatures affected much of the U.S., including Texas. Winter Storm Uri had a material adverse impact on our results of operations and operating cash flows. This severe weather resulted in surging demand for power, gas supply shortages, operational challenges for generators, and a significant load shed event that was ordered by ERCOT beginning on February 15, 2021 and continuing through February 18, 2021. The final financial impact of Winter Storm Uri continues to be subject to the outcome of potential litigation and legislative actions arising from the event, or any corrective action taken by the State of Texas, ERCOT, the RCT or the PUCT to resettle pricing across any portion of the supply chain (i.e. fuel supply, wholesale pricing of generation, or allocating the financial impacts of market-wide load shed ratably across all retail market participants), that is currently being considered or may be considered by any such parties.

In September 2021, the PUCT approved a settlement agreement among ERCOT, PUCT staff and certain ERCOT market participants who are parties to the PUCT proceeding in which ERCOT has applied for an order to finance, administer and distribute to eligible ERCOT market participants the securitization provided for under Texas House Bill 4492 (HB 4492). HB 4492 authorizes ERCOT to securitize up to \$2.1 billion of certain costs allocated by ERCOT to load-serving entities (LSEs) during Winter Storm Uri. HB 4492, and final terms related thereto, are subject to the final financing order issued in October 2021, together with ERCOT obtaining sufficient financing related thereto. Though the final allocations will be determined following the completion of an administrative process, including final determination of which LSEs will participate in or opt out of the program, we expect to receive approximately \$500 million of proceeds.

COVID-19 Pandemic

In March 2020, the World Health Organization categorized the novel coronavirus (COVID-19) as a pandemic, and the U.S. Government declared the COVID-19 outbreak a national emergency. The U.S. government has deemed electricity generation, transmission and distribution as "critical infrastructure" providing essential services during this global emergency. As a provider of critical infrastructure, Vistra has an obligation to provide critically needed power to homes, businesses, hospitals and other customers. Vistra remains focused on protecting the health and well-being of its employees and the communities in which it operates while assuring the continuity of its business operations.

The Company's condensed consolidated financial statements reflect estimates and assumptions made by management that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and reported amounts of revenue and expenses during the reporting periods presented. The Company considered the impact of COVID-19 on the assumptions and estimates used and determined that there have been no material adverse impacts on the Company's results of operations for the three or nine months ended September 30, 2021.

In response to the global pandemic related to COVID-19, the CARES Act was signed into law in March 2020. See Note 6 for a summary of certain anticipated tax-related impacts of the CARES Act to the Company.

Recent Developments

Series A Preferred Stock Offering — On October 15, 2021, we issued of 1,000,000 shares of Series A Preferred Stock in a private offering (Offering). The net proceeds of the Offering were approximately \$990 million, after deducting underwriting commissions and offering expenses. We intend to use the net proceeds from the Offering to repurchase shares of our outstanding common stock under the Share Repurchase Program (see Note 12). See Note 12 for more information concerning the Series A Preferred Stock.

Basis of Presentation

The condensed consolidated financial statements have been prepared in accordance with U.S. GAAP and on the same basis as the audited financial statements included in our 2020 Form 10-K. The condensed consolidated financial information herein reflects all adjustments which are, in the opinion of management, necessary to fairly state the results for the interim periods presented. All such adjustments are of a normal nature. All intercompany items and transactions have been eliminated in consolidation. Certain information and footnote disclosures normally included in annual consolidated financial statements prepared in accordance with U.S. GAAP have been omitted pursuant to the rules and regulations of the SEC. Because the condensed consolidated interim financial statements do not include all of the information and footnotes required by U.S. GAAP, they should be read in conjunction with the audited financial statements and related notes contained in our 2020 Form 10-K. The results of operations for an interim period may not give a true indication of results for a full year. All dollar amounts in the financial statements and tables in the notes are stated in millions of U.S. dollars unless otherwise indicated.

The Company determined that depreciation expense on certain property, plant, and equipment assets was calculated incorrectly in prior years as a result of incorrectly assigned useful lives to these assets, which resulted in a misstatement to depreciation expense and accumulated depreciation. Additionally, an error was identified related to assets that were incorrectly retired prior to the end of their useful lives. The Company identified that depreciation expense and accumulated depreciation was understated by \$23 million, \$39 million and \$3 million for the years ended December 31, 2018, 2019, and 2020, respectively, and overstated by \$20 million for the six-month period ended June 30, 2021. In order to correct for the misstatements, the Company recorded an out-of-period adjustment to depreciation expense of \$45 million for the three months ended September 30, 2021. The Company evaluated the effects of this out-of-period adjustment, both qualitatively and quantitatively, and concluded that this adjustment was not material to the Company's financial position or results of operations for the current or any prior periods.

Use of Estimates

Preparation of financial statements requires estimates and assumptions about future events that affect the reporting of assets and liabilities at the balance sheet dates and the reported amounts of revenue and expense, including fair value measurements, estimates of expected obligations, judgments related to the potential timing of events and other estimates. In the event estimates and/or assumptions prove to be different from actual amounts, adjustments are made in subsequent periods to reflect more current information.

2. DEVELOPMENT OF GENERATION FACILITIES

Texas Segment Solar Generation and Energy Storage Projects

In September 2020, we announced the planned development of up to 668 MW of solar photovoltaic power generation facilities and 260 MW of battery ESS in Texas. Estimated commercial operation dates for these facilities range from first quarter of 2022 to fourth quarter of 2023. At September 30, 2021, we had accumulated approximately \$204 million in construction-work-in-process for these Texas segment solar generation and battery ESS projects.

East Segment Solar Generation and Energy Storage Projects

In September 2021, we announced the planned development of up to 300 MW of solar photovoltaic power generation facilities and up to 150 MW of battery ESS at retired or to-be-retired plant sites in Illinois, based on the passage of Illinois Senate Bill 2408, the Energy Transition Act. Estimated commercial operation dates for these facilities range from 2023 to 2025.

West Segment Energy Storage Projects

Oakland — In June 2019, East Bay Community Energy (EBCE) signed a ten-year contract to receive resource adequacy capacity from the planned development of a 20 MW battery ESS at our Oakland Power Plant site in California. In April 2020, the project received necessary approvals from EBCE and from Pacific Gas and Electric Company (PG&E). The contract was amended to increase the capacity of the planned development to a 36.25 MW battery ESS. In April 2020, the concurrent Local Area Reliability Service (LARS) agreement to ensure grid reliability as part of the Oakland Clean Energy Initiative was signed, but required California Public Utilities Commission (CPUC) approval. PG&E did not receive CPUC approval as of April 15, 2021. On April 16, 2021, Vistra terminated the LARS agreement with PG&E. We are continuing development of the Oakland battery ESS project while seeking another contractual arrangement that will allow the investment to move forward.

Moss Landing — In June 2018, we announced that, subject to approval by the CPUC, we would enter into a 20-year resource adequacy contract with PG&E to develop a 300 MW battery ESS at our Moss Landing Power Plant site in California (Moss Landing Phase I). PG&E filed its application with the CPUC in June 2018 and the CPUC approved the resource adequacy contract in November 2018. Under the contract, PG&E will pay us a fixed monthly resource adequacy payment, while we will receive the energy revenues and incur the costs from dispatching and charging the ESS. Moss Landing Phase I commenced commercial operations in May 2021.

In May 2020, we announced that, subject to approval by the CPUC, we would enter into a 10-year resource adequacy contract with PG&E to develop an additional 100 MW battery ESS at our Moss Landing Power Plant site (Moss Landing Phase II). PG&E filed its application with the CPUC in May 2020 and the CPUC approved the resource adequacy contract in August 2020. Moss Landing Phase II commenced commercial operations in July 2021.

The total development costs for Moss Landing Phases I and II totaled approximately \$600 million.

Moss Landing Phase I Outage — On September 4, 2021, Moss Landing Phase I experienced an incident impacting a portion of the battery ESS. An initial review has found that only a small, single-digit percentage of batteries at the facility were impacted. The facility will be offline as the company continues to safely advance its root cause analysis and perform the work necessary to return the facility to service. We do not currently have an estimated return to service date for the facility. Moss Landing Phase II was not affected and remains operational. We do not expect the incident to have a material impact on our results of operations.

3. RETIREMENT OF GENERATION FACILITIES

In September and December 2020, we announced our intention to retire all of our remaining coal generation facilities in Illinois and Ohio, one coal generation facility in Texas and one natural gas facility in Illinois no later than year-end 2027 due to economic challenges, including incremental expenditures that would be required to comply with the CCR rule and ELG rule (see Note 11), and in furtherance of our efforts to significantly reduce our carbon footprint. Expected plant retirement expenses of \$43 million, driven by severance cost, were accrued in the three months ended September 30, 2020 in operating costs of our Sunset segment. In April 2021, we announced we would retire the Joppa generation facilities by September 1, 2022 in order to settle a complaint filed with the Illinois Pollution Control Board (IPCB) by the Sierra Club in 2018 (see Note 11). We had previously announced that Joppa would retire no later than the end of 2027. In July 2021, we announced we would retire the Zimmer coal generation facility by May 31, 2022 due to the inability to secure capacity revenues for the plant in the latest PJM capacity auction held in May 2021. We had previously announced that Zimmer would retire no later than the end of 2027.

In September 2019, we announced the settlement of a lawsuit alleging violations of opacity and particulate matter limits at our Edwards coal generation facility in Illinois. As part of the settlement, which was approved by the U.S. District Court for the Central District of Illinois in November 2019, we will retire the Edwards facility by the end of 2022.

Operational results for plants with planned retirements are included in our Sunset segment beginning in the quarter when a retirement plan is announced. See Note 17 for discussion of impairments recorded in connection with these announcements.

Name	Location	ISO/RTO	Fuel Type	Net Generation Capacity (MW)	Expected Retirement Date (a)
Baldwin	Baldwin, IL	MISO	Coal	1,185	By the end of 2025
Coleto Creek	Goliad, TX	ERCOT	Coal	650	By the end of 2027
Edwards	Bartonville, IL	MISO	Coal	585	By the end of 2022
Joppa	Joppa, IL	MISO	Coal	802	By September 1, 2022
Joppa	Joppa, IL	MISO	Natural Gas	221	By September 1, 2022
Kincaid	Kincaid, IL	PJM	Coal	1,108	By the end of 2027
Miami Fort	North Bend, OH	PJM	Coal	1,020	By the end of 2027
Newton	Newton, IL	MISO/PJM	Coal	615	By the end of 2027
Zimmer	Moscow, OH	PJM	Coal	1,300	By May 31, 2022
Total				7,486	

⁽a) Generation facilities may retire earlier than expected dates if economic or other conditions dictate.

In December 2020, we announced the retirement of our 83 MW Wharton natural gas facility in Texas due to its age, cost profile and small scale, as well as low power prices, limited operational windows and substantial costs to repair, maintain and upgrade the facility. Operational results for the Wharton facility are included in the Asset Closure segment. The previously announced retirement of our 244 MW Trinidad natural gas facility in Texas was rescinded in April 2021.

4. REVENUE

	Three Months Ended September 30, 2021														
	Retail	Texas		East		West		Sunset		Asset Closure		Eliminations		Consolidated	
Revenue from contracts with customers:															
Retail energy charge in ERCOT	\$ 1,896	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	1,896
Retail energy charge in Northeast/Midwest	624		_		_		_		_		_		_		624
Wholesale generation revenue from ISO/RTO	_		211		191		89		322		_		_		813
Capacity revenue from ISO/RTO (a)	_		_		(13)		1		51		_		_		39
Revenue from other wholesale contracts	_		88		167		29		46		_		_		330
Total revenue from contracts with customers	2,520		299		345		119		419		_		_		3,702
Other revenues:	 														
Intangible amortization	2		_		_		_		(2)		_		_		_
Hedging and other revenues (b)	(362)		(7)		222		(30)		(534)		_		_		(711)
Affiliate sales (c)	_		551		(59)		1		(5)		_		(488)		_
Total other revenues	 (360)		544		163		(29)		(541)				(488)		(711)
Total revenues	\$ 2,160	\$	843	\$	508	\$	90	\$	(122)	\$		\$	(488)	\$	2,991

⁽a) Represents net capacity sold (purchased) in each ISO/RTO. The East segment includes \$117 million of capacity purchased offset by \$104 million of capacity sold.

⁽b) Includes \$861 million of unrealized net losses from mark-to-market valuations of commodity positions. See Note 16 for unrealized net gains (losses) by segment.

⁽c) Texas segment includes \$527 million of affiliated unrealized net losses from mark-to-market valuations of commodity positions with the Retail segment.

	Three Months Ended September 30, 2020														
	 Retail		Texas		East		West		Sunset		Asset Closure	Eliminations		C	onsolidated
Revenue from contracts with customers:															
Retail energy charge in ERCOT	\$ 1,824	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	1,824
Retail energy charge in Northeast/Midwest	683		_		_		_		_		_		_		683
Wholesale generation revenue from ISO/RTO	_		125		78		37		165		1		_		406
Capacity revenue from ISO/RTO (a)	_		_		(25)		_		40		_		_		15
Revenue from other wholesale contracts	_		68		183		16		43		_		_		310
Total revenue from contracts with customers	 2,507		193		236		53		248		1		_		3,238
Other revenues:															
Intangible amortization	7		_		1		_		(4)		_		_		4
Hedging and other revenues (b)	7		230		57		30		(14)		_		_		310
Affiliate sales	_		1,118		350		1		69		_		(1,538)		_
Total other revenues	14		1,348		408		31		51				(1,538)		314
Total revenues	\$ 2,521	\$	1,541	\$	644	\$	84	\$	299	\$	1	\$	(1,538)	\$	3,552

⁽a) Represents net capacity sold (purchased) in each ISO/RTO. The East segment includes \$137 million of capacity purchased offset by \$112 million of capacity sold.

⁽b) Includes \$287 million of unrealized net gains from mark-to-market valuations of commodity positions. See Note 16 for unrealized net gains (losses) by segment.

	 Nine Months Ended September 30, 2021														
	Retail		Texas		East		West		Sunset		Asset Hosure	F	Eliminations	C	onsolidated
Revenue from contracts with customers:															
Retail energy charge in ERCOT	\$ 4,460	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	4,460
Retail energy charge in Northeast/Midwest	1,715		_		_		_		_		_		_		1,715
Wholesale generation revenue from ISO/RTO	_		3,585		442		158		1,230		_		_		5,415
Capacity revenue from ISO/RTO (a)	_		_		(14)		1		133		_		_		120
Revenue from other wholesale contracts	_		2,172		459		75		148		_		_		2,854
Total revenue from contracts with customers	 6,175		5,757		887		234		1,511						14,564
Other revenues:	 														
Intangible amortization	(1)		_		74		_		(10)		_		_		63
Hedging and other revenues (b)	(345)		(4,457)		418		(66)		(1,414)		_		_		(5,864)
Affiliate sales (c)	_		158		359		3		22		_		(542)		_
Total other revenues	(346)		(4,299)		851		(63)		(1,402)				(542)		(5,801)
Total revenues	\$ 5,829	\$	1,458	\$	1,738	\$	171	\$	109	\$	_	\$	(542)	\$	8,763

⁽a) Represents net capacity sold (purchased) in each ISO/RTO. The East segment includes \$345 million of capacity purchased offset by \$332 million of capacity sold.

- (b) Includes \$1,146 million of unrealized net losses from mark-to-market valuations of commodity positions. See Note 16 for unrealized net gains (losses) by segment.
- (c) Texas segment includes \$2.153 billion of affiliated unrealized net losses from mark-to-market valuations of commodity positions with the Retail segment.

	Nine Months Ended September 30, 2020														
	 Retail		Texas		East	West Sunset		Asset Closure		Eliminations			Consolidated		
Revenue from contracts with customers:															
Retail energy charge in ERCOT	\$ 4,489	\$	_	\$	_	\$	_	\$	_	\$	_	\$	_	\$	4,489
Retail energy charge in Northeast/Midwest	1,862		_		_		_		_		_		_		1,862
Wholesale generation revenue from ISO/RTO	_		283		177		83		305		1		_		849
Capacity revenue from ISO/RTO (a)	_		_		(34)		_		124		_		_		90
Revenue from other wholesale contracts	_		183		508		40		146		_		_		877
Total revenue from contracts with customers	6,351		466		651		123		575		1		_		8,167
Other revenues:															
Intangible amortization	(1)		_		1		_		(16)		_		_		(16)
Hedging and other revenues (b)	35		529		25		85		92		2		_		768
Affiliate sales	_		2,250		1,168		3		212		_		(3,633)		_
Total other revenues	34		2,779		1,194		88		288		2		(3,633)		752
Total revenues	\$ 6,385	\$	3,245	\$	1,845	\$	211	\$	863	\$	3	\$	(3,633)	\$	8,919

⁽a) Represents net capacity sold (purchased) in each ISO/RTO. The East segment includes \$412 million of capacity purchased offset by \$378 million of capacity sold.

Performance Obligations

As of September 30, 2021, we have future performance obligations that are unsatisfied, or partially unsatisfied, relating to capacity auction volumes awarded through capacity auctions held by the ISO/RTO or contracts with customers. Therefore, an obligation exists as of the date of the results of the respective ISO/RTO capacity auction or the contract execution date. These obligations total \$226 million, \$649 million, \$301 million, \$206 million and \$98 million that will be recognized, in the balance of the year ended December 31, 2021 and the years ending December 31, 2022, 2023, 2024 and 2025, respectively, and \$484 million thereafter. Capacity revenues are recognized as capacity is made available to the related ISOs/RTOs or counterparties.

Accounts Receivable

The following table presents trade accounts receivable (net of allowance for uncollectible accounts) relating to both contracts with customers and other activities:

		September 30, 2021	December	31, 2020
Trade accounts receivable from contracts with customers — net	3	1,377	\$	1,169
Other trade accounts receivable — net		152		110
Total trade accounts receivable — net	9	1,529	\$	1,279

⁽b) Includes \$418 million of unrealized net gains from mark-to-market valuations of commodity positions. See Note 16 for unrealized net gains (losses) by segment.

5. GOODWILL AND IDENTIFIABLE INTANGIBLE ASSETS AND LIABILITIES

Goodwill

At both September 30, 2021 and December 31, 2020, the carrying value of goodwill totaled \$2.583 billion, including \$2.461 billion allocated to our Retail reporting unit and \$122 million allocated to our Texas Generation reporting unit. Goodwill of \$1.944 billion is deductible for tax purposes over 15 years on a straight line basis.

Identifiable Intangible Assets and Liabilities

Identifiable intangible assets are comprised of the following:

	September 30, 2021						December 31, 2020						
Identifiable Intangible Asset		Gross Carrying Amount		Accumulated Amortization		Net	Gross Carrying Amount		Accumulated Amortization			Net	
Retail customer relationship	\$	2,082	\$	1,581	\$	501	\$	2,082	\$	1,434	\$	648	
Software and other technology-related assets		410		197		213		414		186		228	
Retail and wholesale contracts		248		199		49		272		204		68	
Contractual service agreements (a)		31		_		31		51		1		50	
Other identifiable intangible assets (b)		80		20		60		96		19		77	
Total identifiable intangible assets subject to amortization	\$	2,851	\$	1,997		854	\$	2,915	\$	1,844		1,071	
Retail trade names (not subject to amortization)						1,374						1,374	
Mineral interests (not currently subject to amortization)						1						1	
Total identifiable intangible assets					\$	2,229					\$	2,446	

⁽a) At September 30, 2021, amounts related to contractual service agreements that have become liabilities due to amortization of the economic impacts of the intangibles have been removed from both the gross carrying amount and accumulated amortization.

Identifiable intangible liabilities are comprised of the following:

Identifiable Intangible Liability	ember 30, 2021	Decen	nber 31, 2020
Contractual service agreements	\$ 125	\$	129
Purchase and sale of power and capacity	10		87
Fuel and transportation purchase contracts	15		73
Total identifiable intangible liabilities	\$ 150	\$	289

⁽b) Includes mining development costs and environmental allowances (emissions allowances and renewable energy certificates).

Expense related to finite-lived identifiable intangible assets and liabilities (including the classification in the condensed consolidated statements of operations) consisted of:

	Condensed Consolidated Statements of — Operations		Three Months En	ded	September 30,	Nine Months Ended September 30,				
Identifiable Intangible Assets and Liabilities			2021		2020		2021		2020	
Retail customer relationship	Depreciation and amortization	\$	49	\$	62	\$	147	\$	214	
Software and other technology-related assets	Depreciation and amortization		20		19		58		56	
Retail and wholesale contracts/purchase and sale/fuel and transportation contracts	Operating revenues/fuel, purchased power costs and delivery fees		1		(4)		(60)		11	
Other identifiable intangible assets	Operating revenues/fuel, purchased power costs and delivery fees/depreciation and amortization		91		66		196		162	
Total intangible asset expense (a)		\$	161	\$	143	\$	341	\$	443	

⁽a) Amounts recorded in depreciation and amortization totaled \$70 million and \$82 million for the three months ended September 30, 2021 and 2020, respectively and \$208 million and \$272 million for the nine months ended September 30, 2021 and 2020. Amounts exclude contractual services agreements. Amounts include all expenses associated with environmental allowances including expenses accrued to comply with emissions allowance programs and renewable portfolio standards which are presented in fuel, purchased power costs and delivery fees on our condensed consolidated statements of operations. Emissions allowance obligations are accrued as associated electricity is generated and renewable energy certificate obligations are accrued as retail electricity delivery occurs.

Estimated Amortization of Identifiable Intangible Assets and Liabilities

As of September 30, 2021, the estimated aggregate amortization expense of identifiable intangible assets and liabilities for each of the next five fiscal years is as shown below.

Year	Estimated A	Amortization Expense
2021	\$	212
2022	\$	192
2023	\$	137
2024	\$	88
2025	\$	63

6. INCOME TAXES

Income Tax Expense

The calculation of our effective tax rate is as follows:

	Three Months E	nded S	September 30,		Nine Months En	ded Se	led September 30,		
	 2021 2020				2021		2020		
Income (loss) before income taxes	\$ 41	\$	641	\$	(2,563)	\$	934		
Income tax (expense) benefit	\$ (31)	\$	(199)	\$	569	\$	(283)		
Effective tax rate	75.6 %)	31.0 %		22.2 %		30.3 %		

For the three months ended September 30, 2021, the effective tax rate of 75.6% was higher than the U.S. federal statutory rate of 21% due primarily to nondeductible impacts of the TRA, additional valuation allowance against certain state net operating losses, and state income taxes. For the nine months ended September 30, 2021, the effective tax rate of 22.2% was higher than the U.S. federal statutory rate of 21% due primarily to nondeductible impacts of the TRA and state income taxes.

For the three months ended September 30, 2020, the effective tax rate of 31.0% was higher that the U.S. federal statutory rate of 21% due primarily to nondeductible impacts of the TRA and state income taxes, including the impact of an increase in the valuation allowance on a portion of state net operating losses. For the nine months ended September 30, 2020, the effective tax rate of 30.3% was higher than the U.S. federal statutory rate of 21% due primarily to nondeductible impacts of the TRA and state income taxes.

Coronavirus Aid, Relief, and Economic Security Act (CARES Act) and Final Section 163(j) Regulations

In response to the global pandemic related to COVID-19, the CARES Act was signed into law in March 2020. The CARES Act provides numerous relief provisions for corporate taxpayers, including modification of the utilization limitations on net operating losses, favorable expansion of the deduction for business interest expense under IRC Section 163(j) (Section 163(j)), the ability to accelerate timing of refundable alternative minimum tax (AMT) credits and the temporary suspension of certain payment requirements for the employer portion of social security taxes. Additionally, the final Section 163(j) regulations were issued in July 2020 and provided a critical correction to the proposed regulations with respect to the computation of adjusted taxable income. Vistra expects to receive an approximate \$265 million increase in interest expense deduction in the 2021 tax year under the final Section 163(j) regulations. We do not anticipate a material impact to the effective tax rate from this impact. Vistra also utilized the CARES Act payroll deferral mechanism to defer the payment of approximately \$20 million from 2020 to 2021 and 2022. We expect to pay approximately half of the previously deferred taxes in December 2021.

Liability for Uncertain Tax Positions

Vistra and its subsidiaries file income tax returns in U.S. federal, state and foreign jurisdictions and are, at times, subject to examinations by the IRS and other taxing authorities. In February 2021, Vistra was notified that the IRS had opened a federal income tax audit for tax years 2018 and 2019 and an employment tax audit for tax year 2018. Crius is currently under audit by the IRS for the tax years 2015 and 2016. Uncertain tax positions totaled \$39 million at both September 30, 2021 and December 31, 2020.

7. TAX RECEIVABLE AGREEMENT OBLIGATION

On the Effective Date, Vistra entered into a tax receivable agreement (the TRA) with a transfer agent on behalf of certain former first-lien creditors of TCEH. The TRA generally provides for the payment by us to holders of TRA Rights of 85% of the amount of cash savings, if any, in U.S. federal and state income tax that we realize in periods after Emergence as a result of (a) certain transactions consummated pursuant to the Plan of Reorganization (including the step-up in tax basis in our assets resulting from the PrefCo Preferred Stock Sale), (b) the tax basis of all assets acquired in connection with the acquisition of two CCGT natural gas-fueled generation facilities in April 2016 and (c) tax benefits related to imputed interest deemed to be paid by us as a result of payments under the TRA, plus interest accruing from the due date of the applicable tax return.

Pursuant to the TRA, we issued the TRA Rights for the benefit of the first-lien secured creditors of TCEH entitled to receive such TRA Rights under the Plan of Reorganization. Such TRA Rights are entitled to certain registration rights more fully described in the Registration Rights Agreement (see Note 15).

The following table summarizes the changes to the TRA obligation, reported as other current liabilities and Tax Receivable Agreement obligation in our condensed consolidated balance sheets, for the nine months ended September 30, 2021 and 2020:

	Nine Months I	Nine Months Ended Septemb				
	2021		2020			
TRA obligation at the beginning of the period	\$ 450) \$	455			
Accretion expense	44	}	50			
Changes in tax assumptions impacting timing of payments (a)	(79)	(94)			
Impacts of Tax Receivable Agreement	(33	.)	(44)			
TRA obligation at the end of the period	419)	411			
Less amounts due currently		3)	_			
Noncurrent TRA obligation at the end of the period	\$ 410	\$	411			

⁽a) During the three months ended September 30, 2021, we recorded a decrease to the carrying value of the TRA obligation totaling \$51 million as a result of adjustments to forecasted taxable income and anticipated tax benefits available under

current tax laws for planned additional renewable development projects, particularly in light of the recent passage of Illinois' coal-to-solar legislation. During the nine months ended September 30, 2021, we recorded a decrease to the carrying value of the TRA obligation totaling \$79 million as a result of adjustments to forecasted taxable income, including the financial impacts of Winter Storm Uri, and anticipated tax benefits available under current tax laws for planned additional renewable development projects. During the three and nine months ended September 30, 2020, we recorded decreases of \$74 million and \$94 million, respectively, to the carrying value of the TRA obligation as a result of adjustments to forecasted taxable income, including the impacts of the CARES Act, and changes to Section 163(j) percentage limitation amount, the impacts from the issuance of final Section 163(j) regulations and the anticipated tax benefits from renewable development projects.

As of September 30, 2021, the estimated carrying value of the TRA obligation totaled \$419 million, which represents the discounted amount of projected payments under the TRA. The projected payments are based on certain assumptions, including but not limited to (a) the federal corporate income tax rate of 21%, (b) estimates of our taxable income in the current and future years and (c) additional states that Vistra now operates in, including the relevant tax rate and apportionment factor for each state. Our taxable income takes into consideration the current federal tax code, various relevant state tax laws and reflects our current estimates of future results of the business. These assumptions are subject to change, and those changes could have a material impact on the carrying value of the TRA obligation. As of September 30, 2021, the aggregate amount of undiscounted federal and state payments under the TRA is estimated to be approximately \$1.4 billion, with more than half of such amount expected to be paid during the next 15 years, and the final payment expected to be made around the year 2056 (if the TRA is not terminated earlier pursuant to its terms).

The carrying value of the obligation is being accreted to the amount of the gross expected obligation using the effective interest method. Changes in the amount of this obligation resulting from changes to either the timing or amount of TRA payments are recognized in the period of change and measured using the discount rate inherent in the initial fair value of the obligation.

8. EARNINGS PER SHARE

Basic earnings per share available to common stockholders are based on the weighted average number of common shares outstanding during the period. Diluted earnings per share is calculated using the treasury stock method and includes the effect of all potential issuances of common shares under stock-based incentive compensation arrangements.

	Three Months Ended September 30,					Nine Months End	ed September 30,		
		2021		2020		2021		2020	
Net income (loss) attributable to common stock — basic	\$	7	\$	443	\$	(2,000)	\$	665	
Weighted average shares of common stock outstanding — basic		482,516,965		488,824,580		483,150,213		488,484,441	
Net income (loss) per weighted average share of common stock outstanding — basic	\$	0.01	\$	0.91	\$	(4.14)	\$	1.36	
Dilutive securities: Stock-based incentive compensation plan		1,977,581		2,201,360		_		2,430,037	
Weighted average shares of common stock outstanding — diluted		484,494,546		491,025,940		483,150,213		490,914,478	
Net income (loss) per weighted average share of common stock outstanding — diluted	\$	0.01	\$	0.90	\$	(4.14)	\$	1.35	

Stock-based incentive compensation plan awards excluded from the calculation of diluted earnings per share because the effect would have been antidilutive totaled 12,851,055 and 13,778,275 in the three months ended September 30, 2021 and 2020, respectively, and 15,223,763 and 12,471,806 shares for the nine months ended September 30, 2021 and 2020, respectively.

9. ACCOUNTS RECEIVABLE FINANCING

Accounts Receivable Securitization Program

TXU Energy Receivables Company LLC (RecCo), an indirect subsidiary of Vistra, has an accounts receivable financing facility (Receivables Facility) provided by issuers of asset-backed commercial paper and commercial banks (Purchasers). The Receivables Facility was renewed in July 2021, extending the term of the Receivables Facility to July 2022, with the ability to borrow \$600 million beginning with the settlement date in July 2021 until the settlement date in August 2021, \$725 million from the settlement date in August 2021 until the settlement date in November 2021 and \$600 million from the settlement date in November 2021 and thereafter for the remaining term of the Receivables Facility.

In connection with the Receivables Facility, TXU Energy, Dynegy Energy Services, Ambit Texas, Value Based Brands and TriEagle Energy, each indirect subsidiaries of Vistra and originators under the Receivables Facility (Originators), each sell and/or contribute, subject to certain exclusions, all of its receivables (other than any receivables excluded pursuant to the terms of the Receivables Facility), arising from the sale of electricity to its customers and related rights (Receivables), to RecCo, a consolidated, wholly owned, bankruptcy-remote, direct subsidiary of TXU Energy. RecCo, in turn, is subject to certain conditions, and may draw under the Receivables Facility up to the limits described above to fund its acquisition of the Receivables from the Originators. RecCo has granted a security interest on the Receivables and all related assets for the benefit of the Purchasers under the Receivables Facility and Vistra Operations has agreed to guarantee the obligations under the agreements governing the Receivables Facility. Amounts funded by the Purchasers to RecCo are reflected as short-term borrowings on the condensed consolidated balance sheets. Proceeds and repayments under the Receivables Facility are reflected as cash flows from financing activities in our condensed consolidated statements of cash flows. Receivables transferred to the Purchasers remain on Vistra's balance sheet and Vistra reflects a liability equal to the amount advanced by the Purchasers. The Company records interest expense on amounts advanced. TXU Energy continues to service, administer and collect the Receivables on behalf of RecCo and the Purchasers, as applicable.

As of September 30, 2021, outstanding borrowings under the Receivables Facility totaled \$475 million and were supported by \$954 million of RecCo gross receivables. As of December 31, 2020, outstanding borrowings under the Receivables Facility totaled \$300 million and were supported by \$735 million of RecCo gross receivables.

Repurchase Facility

In October 2020, TXU Energy and the other originators under the Receivables Facility entered into a \$125 million repurchase facility (Repurchase Facility) that is provided on an uncommitted basis by a commercial bank as buyer (Buyer). In July 2021, the Repurchase Facility was renewed until August 2021 and increased from \$125 million to \$150 million. In August 2021, the Repurchase Facility was renewed until July 2022 and the facility size was decreased from \$150 million to \$125 million. The Repurchase Facility is collateralized by a subordinated note (Subordinated Note) issued by RecCo in favor of TXU Energy for the benefit of Originators under the Receivables Facility and representing a portion of the outstanding balance of the purchase price paid for the Receivables sold by the Originators to RecCo under the Receivables Facility. Under the Repurchase Facility, TXU Energy may request that Buyer transfer funds to TXU Energy in exchange for a transfer of the Subordinated Note, with a simultaneous agreement by TXU Energy to transfer funds to Buyer at a date certain or on demand in exchange for the return of the Subordinated Note (collectively, the Transactions). Each Transaction is expected to have a term of one month, unless terminated earlier on demand by TXU Energy or terminated by Buyer after an event of default.

TXU Energy and the other Originators have each granted Buyer a first-priority security interest in the Subordinated Note to secure its obligations under the agreements governing the Repurchase Facility, and Vistra Operations has agreed to guarantee the obligations under the agreements governing the Repurchase Facility.

There were no outstanding borrowings at both September 30, 2021 and December 31, 2020.

10. LONG-TERM DEBT

Amounts in the table below represent the categories of long-term debt obligations incurred by the Company.

	Sep	tember 30, 2021	December 31, 2020
Vistra Operations Credit Facilities	\$	2,550	\$ 2,572
Vistra Operations Senior Secured Notes:			
3.550% Senior Secured Notes, due July 15, 2024		1,500	1,500
3.700% Senior Secured Notes, due January 30, 2027		800	800
4.300% Senior Secured Notes, due July 15, 2029		800	800
Total Vistra Operations Senior Secured Notes	<u> </u>	3,100	 3,100
Vistra Operations Senior Unsecured Notes:			
5.500% Senior Unsecured Notes, due September 1, 2026		1,000	1,000
5.625% Senior Unsecured Notes, due February 15, 2027		1,300	1,300
5.000% Senior Unsecured Notes, due July 31, 2027		1,300	1,300
4.375% Senior Secured Notes, due May 15, 2029		1,250	_
Total Vistra Operations Senior Unsecured Notes		4,850	3,600
Other:			
Forward Capacity Agreements		343	45
Equipment Financing Agreements		105	68
8.82% Building Financing due semiannually through February 11, 2022 (a)		3	10
Other		3	3
Total other long-term debt	<u> </u>	454	 126
Unamortized debt premiums, discounts and issuance costs (b)		(79)	(68)
Total long-term debt including amounts due currently		10,875	 9,330
Less amounts due currently		(382)	(95)
Total long-term debt less amounts due currently	\$	10,493	\$ 9,235

⁽a) Obligation related to a corporate office space finance lease. This obligation will be funded by amounts held in an escrow account that is reflected in current assets in our condensed consolidated balance sheets.

Vistra Operations Credit Facilities

At September 30, 2021, the Vistra Operations Credit Facilities consisted of up to \$5.275 billion in senior secured, first-lien revolving credit commitments and outstanding term loans, which consisted of revolving credit commitments of up to \$2.725 billion, including a \$2.35 billion letter of credit sub-facility (Revolving Credit Facility) and term loans of \$2.550 billion (Term Loan B-3 Facility).

In March 2021, Vistra Operations borrowed \$1.0 billion principal amount under the Term Loan A Facility. In April 2021, Vistra Operations borrowed an additional \$250 million principal amount under the Term Loan A Facility. Proceeds from the Term Loan A Facility, together with cash on hand, were used to repay certain amounts outstanding under the Revolving Credit Facility. Borrowings under the Term Loan A Facility were reported in short-term borrowings in our condensed consolidated balance sheet. In May 2021, Vistra Operations used the proceeds from the issuance of the Vistra Operations 4.375% senior unsecured notes due 2029 (described below), together with cash on hand, to repay the \$1.250 billion borrowings under the Term Loan A Facility. We recorded an extinguishment loss of \$1 million on the transaction in the nine months ended September 30, 2021.

In March 2020, Vistra Operations repurchased and cancelled \$100 million principal amount of Term Loan B-3 Facility borrowings at a weighted average price of \$93.875. We recorded an extinguishment gain of \$6 million on the transaction in the nine months ended September 30, 2020.

⁽b) Includes impact of recording debt assumed in the Merger at fair value.

During the nine months ended September 30, 2021, we borrowed \$1.3 billion and repaid \$1.3 billion under the Revolving Credit Facility, with proceeds from the borrowings used for general corporate purposes.

The Vistra Operations Credit Facilities and related available capacity at September 30, 2021 are presented below.

		September 30, 2021										
Vistra Operations Credit Facilities		Facility Limit	Во	Cash orrowings		etters of Credit Outstanding		Available Capacity				
Revolving Credit Facility (a)	June 14, 2023	\$	2,725	\$		\$	1,005	\$	1,720			
Term Loan B-3 Facility (b)	December 31, 2025		2,550		2,550		_		_			
Total Vistra Operations Credit Facilities		\$	5,275	\$	2,550	\$	1,005	\$	1,720			

- (a) Revolving Credit Facility used for general corporate purposes. The Facility includes a \$2.35 billion letter of credit sub-facility. Letters of credit outstanding reduce our available capacity. Cash borrowings under the Revolving Credit Facility are reported in short-term borrowings in our condensed consolidated balance sheets.
- (b) Cash borrowings under the Term Loan B-3 Facility are subject to a required scheduled quarterly payment in annual amount equal to 1.00% of the original principal amount with the balance paid at maturity. Amounts paid cannot be reborrowed.

At September 30, 2021, cash borrowings under the Revolving Credit Facility would bear interest based on applicable LIBOR rates, plus a fixed spread of 1.75%, and there were no outstanding borrowings. Letters of credit issued under the Revolving Credit Facility bear interest of 1.75%. Amounts borrowed under the Term Loan B-3 Facility bears interest based on applicable LIBOR rates plus fixed spreads of 1.75%. At September 30, 2021, the weighted average interest rates before taking into consideration interest rate swaps on outstanding borrowings was 1.83%. The Vistra Operations Credit Facilities also provide for certain additional fees payable to the agents and lenders, including fronting fees with respect to outstanding letters of credit and availability fees payable with respect to any unused portion of the available Revolving Credit Facility.

Obligations under the Vistra Operations Credit Facilities are secured by a lien covering substantially all of Vistra Operations' (and its subsidiaries') consolidated assets, rights and properties, subject to certain exceptions set forth in the Vistra Operations Credit Facilities, provided that the amount of loans outstanding under the Vistra Operations Credit Facilities that may be secured by a lien covering certain principal properties of the Company is expressly limited by the terms of the Vistra Operations Credit Facilities.

The Vistra Operations Credit Facilities also permit certain hedging agreements to be secured on a pari-passu basis with the Vistra Operations Credit Facilities in the event those hedging agreements met certain criteria set forth in the Vistra Operations Credit Facilities.

The Vistra Operations Credit Facilities provide for affirmative and negative covenants applicable to Vistra Operations (and its restricted subsidiaries), including affirmative covenants requiring it to provide financial and other information to the agents under the Vistra Operations Credit Facilities and to not change its lines of business, and negative covenants restricting Vistra Operations' (and its restricted subsidiaries') ability to incur additional indebtedness, make investments, dispose of assets, pay dividends, grant liens or take certain other actions, in each case, except as permitted in the Vistra Operations Credit Facilities. Vistra Operations' ability to borrow under the Vistra Operations Credit Facilities is subject to the satisfaction of certain customary conditions precedent set forth therein.

The Vistra Operations Credit Facilities provide for certain customary events of default, including events of default resulting from non-payment of principal, interest or fees when due, material breaches of representations and warranties, material breaches of covenants in the Vistra Operations Credit Facilities or ancillary loan documents, cross-defaults under other agreements or instruments and the entry of material judgments against Vistra Operations. Solely with respect to the Revolving Credit Facility, and solely during a compliance period (which, in general, is applicable when the aggregate revolving borrowings and issued revolving letters of credit (in excess of \$300 million) exceed 30% of the revolving commitments), the agreement includes a covenant that requires the consolidated first lien net leverage ratio, which is based on the ratio of net first lien debt compared to an EBITDA calculation defined under the terms of the Vistra Operations Credit Facilities, not to exceed 4.25 to 1.00. Although the period ended September 30, 2021 was not a compliance period, we would have been in compliance with this financial covenant if it was required to be tested at such time. Upon the existence of an event of default, the Vistra Operations Credit Facilities provide that all principal, interest and other amounts due thereunder will become immediately due and payable, either automatically or at the election of specified lenders.

Interest Rate Swaps — Vistra employs interest rate swaps to hedge our exposure to variable rate debt. As of September 30, 2021, Vistra has entered into the following series of interest rate swap transactions.

	Notional Amount	Expiration Date	Rate Range
Swapped to fixed	\$3,000	July 2023	3.67 % - 3.91%
Swapped to variable	\$700	July 2023	3.20 % - 3.23%
Swapped to fixed	\$720	February 2024	3.71 % - 3.72%
Swapped to variable	\$720	February 2024	3.20 % - 3.20%
Swapped to fixed (a)	\$3,000	July 2026	4.72 % - 4.79%
Swapped to variable (a)	\$700	July 2026	3.28 % - 3.33%

⁽a) Effective from July 2023 through July 2026.

During 2019, Vistra entered into \$2.12 billion of new interest rate swaps, pursuant to which Vistra will pay a variable rate and receive a fixed rate. The terms of these new swaps were matched against the terms of certain existing swaps, effectively offsetting the hedge of the existing swaps and fixing the out-of-the-money position of such swaps. These matched swaps will settle over time, in accordance with the original contractual terms. The remaining existing swaps continue to hedge our exposure on \$2.30 billion of debt through July 2026.

Secured Letter of Credit Facilities

In August and September 2020, Vistra entered into uncommitted standby letter of credit facilities that are each secured by a first lien on substantially all of Vistra Operations' (and its subsidiaries') assets (which ranks pari passu with the Vistra Operations Credit Facilities) (each, a Secured LOC Facility and collectively, the Secured LOC Facilities). The Secured LOC Facilities are used for general corporate purposes. At September 30, 2021, \$354 million of letters of credit were outstanding under the Secured LOC Facilities. In October 2021, Vistra entered into an additional Secured LOC Facility which will also be used for general corporate purposes.

Alternate Letter of Credit Facility

At September 30, 2021, \$250 million of letters of credit were outstanding under a \$250 million alternate letter of credit facility. The facility is to be used for general corporate purposes and matures in December 2021.

Vistra Operations Senior Secured Notes

In 2019, Vistra Operations issued and sold \$3.1 billion aggregate principal amount of senior secured notes in offerings to eligible purchasers under Rule 144A and Regulation S under the Securities Act. The indenture (as may be amended or supplemented from time to time, the Vistra Operations Senior Secured Indenture) governing the 3.550% senior secured notes due 2024, the 3.700% senior secured notes due 2027 and the 4.300% senior secured notes due 2029 (collectively, as each may be amended or supplemented from time to time, the Senior Secured Notes) provides for the full and unconditional guarantee by certain of Vistra Operations' current and future subsidiaries that also guarantee the Vistra Operations Credit Facilities. The Senior Secured Notes are secured by a first-priority security interest in the same collateral that is pledged for the benefit of the lenders under the Vistra Operations Credit Facilities, which consists of a substantial portion of the property, assets and rights owned by Vistra Operations and certain direct and indirect subsidiaries of Vistra Operations as subsidiary guarantors (collectively, the Guarantor Subsidiaries) as well as the stock of Vistra Operations held by Vistra Intermediate. The collateral securing the Senior Secured Notes will be released if Vistra Operations' senior, unsecured long-term debt securities obtain an investment grade rating from two out of the three rating agencies, subject to reversion if such rating agencies withdraw the investment grade rating of Vistra Operations' senior, unsecured long-term debt securities or downgrade such rating below investment grade. The Vistra Operations Senior Secured Indenture contains certain covenants and restrictions, including, among others, restrictions on the ability of Vistra Operations and its subsidiaries, as applicable, to create certain liens, merge or consolidate with another entity, and sell all or substantially all of their assets.

Vistra Operations Senior Unsecured Notes

In May 2021, Vistra Operations issued and sold \$1.250 billion aggregate principal amount of 4.375% senior unsecured notes due 2029 in an offering to eligible purchasers under Rule 144A and Regulation S under the Securities Act. The 4.375% senior unsecured notes due 2029 were sold pursuant to a purchase agreement by and among Vistra Operations, the Guarantor Subsidiaries and J.P. Morgan Securities LLC, as representative of the several initial purchasers. The 4.375% senior unsecured notes mature in May 2029, with interest payable in arrears on May 1 and November 1 beginning November 1, 2021 with interest accrued from May 10, 2021. Net proceeds, together with cash on hand, were used to repay all amounts outstanding under the Term Loan A Facility and to pay fees and expenses of \$15 million related to the offering.

Since 2018, Vistra Operations has issued and sold \$4.85 billion aggregate principal amount of senior unsecured notes in offerings to eligible purchasers under Rule 144A and Regulation S under the Securities Act. The indentures governing the 5.500% senior unsecured notes due 2026, the 5.625% senior unsecured notes due 2027, the 5.000% senior unsecured notes due 2027 and the 4.375% senior unsecured notes due 2029 (collectively, as each may be amended or supplemented from time to time, the Vistra Operations Senior Unsecured Indentures) provide for the full and unconditional guarantee by the Guarantor Subsidiaries of the punctual payment of the principal and interest on such notes. The Vistra Operations Senior Unsecured Indentures contain certain covenants and restrictions, including, among others, restrictions on the ability of Vistra Operations and its subsidiaries, as applicable, to create certain liens, merge or consolidate with another entity, and sell all or substantially all of their assets.

Debt Repurchase Program

In April 2020, the Company's board of directors (Board) authorized up to \$1.0 billion to repay or repurchase additional outstanding debt. Through February 2021, approximately \$666 million had been repurchased under the authorization. In March 2021, the Board authorized up to \$1.8 billion to repay or repurchase additional outstanding debt, which authorization superseded any amounts that remained outstanding under any previous authorizations. Through September 30, 2021, no debt had been repurchased under the March 2021 authorization.

Vistra Senior Unsecured Notes

June 2020 Redemption — In June 2020, Vistra redeemed the entire \$500 million aggregate principal amount outstanding of 5.875% senior notes at a redemption price equal to 100.979% of the aggregate principal amount thereof, plus accrued and unpaid interest to, but excluding, the date of redemption. We recorded an extinguishment gain of \$3 million on the transaction in the nine months ended September 30, 2020.

January 2020 Redemption — In January 2020, Vistra redeemed the entire \$81 million aggregate principal amount outstanding of 8.000% senior notes at a redemption price equal to 104.0% of the aggregate principal amount thereof, plus accrued and unpaid interest to, but excluding, the date of redemption. We recorded an extinguishment gain of \$2 million on the transaction in the nine months ended September 30, 2020.

Other Long-Term Debt

Forward Capacity Agreements — In March 2021, the Company sold a portion of the PJM capacity that cleared for Planning Years 2021-2022 to a financial institution (2021-2022 Forward Capacity Agreement). The buyer in this transaction will receive capacity payments from PJM during the Planning Years 2021-2022 in the amount of approximately \$515 million. We will continue to be subject to the performance obligations as well as any associated performance penalties and bonus payments for those planning years. As a result, this transaction is accounted for as a debt issuance with an implied interest rate of approximately 4.25%.

On the Merger Date, the Company assumed the obligation of Dynegy's agreements under which a portion of the PJM capacity that cleared for Planning Years 2018-2019, 2019-2020 and 2020-2021 was sold to a financial institution (Legacy Forward Capacity Agreements, and, together with the 2021-2022 Forward Capacity Agreement, the Forward Capacity Agreements). In May 2021, the final capacity payment from PJM during the Planning Years 2020-2021 was paid, and the terms of the Legacy Forward Capacity were fulfilled.

Maturities

Long-term debt maturities at September 30, 2021 are as follows:

	Septembe	r 30, 2021
Remainder of 2021	\$	151
2022		257
2023		40
2024		1,540
2025		2,470
Thereafter		6,496
Unamortized premiums, discounts and debt issuance costs		(79)
Total long-term debt, including amounts due currently	\$	10,875

11. COMMITMENTS AND CONTINGENCIES

Guarantees

We have entered into contracts that contain guarantees to unaffiliated parties that could require performance or payment under certain conditions. Material guarantees are discussed below.

Letters of Credit

At September 30, 2021, we had outstanding letters of credit totaling \$1.609 billion as follows:

- \$1.316 billion to support commodity risk management collateral requirements in the normal course of business, including over-the-counter and exchange-traded transactions and collateral postings with ISOs/RTOs;
- \$129 million to support battery and solar development projects;
- \$29 million to support executory contracts and insurance agreements;
- \$74 million to support our REP financial requirements with the PUCT, and
- \$61 million for other credit support requirements.

Surety Bonds

At September 30, 2021, we had outstanding surety bonds totaling \$502 million to support performance under various contracts and legal obligations in the normal course of business.

Litigation and Regulatory Proceedings

Our material legal proceedings and regulatory proceedings affecting our business are described below. We believe that we have valid defenses to the legal proceedings described below and intend to defend them vigorously. We also intend to participate in the regulatory processes described below. We record reserves for estimated losses related to these matters when information available indicates that a loss is probable and the amount of the loss, or range of loss, can be reasonably estimated. As applicable, we have established an adequate reserve for the matters discussed below. In addition, legal costs are expensed as incurred. Management has assessed each of the following legal matters based on current information and made a judgment concerning its potential outcome, considering the nature of the claim, the amount and nature of damages sought, and the probability of success. Unless specified below, we are unable to predict the outcome of these matters or reasonably estimate the scope or amount of any associated costs and potential liabilities, but they could have a material impact on our results of operations, liquidity, or financial condition. As additional information becomes available, we adjust our assessment and estimates of such contingencies accordingly. Because litigation and rulemaking proceedings are subject to inherent uncertainties and unfavorable rulings or developments, it is possible that the ultimate resolution of these matters could be at amounts that are different from our currently recorded reserves and that such differences could be material.

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Gas Index Pricing Litigation — We, through our subsidiaries, and other companies are named as defendants in several lawsuits claiming damages resulting from alleged price manipulation through false reporting of natural gas prices to various index publications, wash trading and churn trading from 2000-2002. The plaintiffs in these cases allege that the defendants engaged in an antitrust conspiracy to inflate natural gas prices during the relevant time period and seek damages under the respective state antitrust statutes. We remain as defendants in two consolidated putative class actions (Wisconsin) and one individual action (Kansas) both pending in federal court in those states. In the Kansas action, in June 2021, the U.S. Court of Appeals for the Tenth Circuit affirmed the district court's 2019 denial of summary judgment (for reasons different from those of the district court), but also limited the type of damages the plaintiff in that action might be able to recover and remanded the case for further proceedings.

Wood River Rail Dispute — In November 2017, Dynegy Midwest Generation, LLC (DMG) received notification that BNSF Railway Company and Norfolk Southern Railway Company were initiating dispute resolution related to DMG's suspension of its Wood River Rail Transportation Agreement with the railroads. In March 2018, BNSF Railway Company (BNSF) and Norfolk Southern Railway Company (NS) filed a demand for arbitration. In March 2021, the parties entered into a confidential settlement to resolve this matter and the Coffeen matter discussed below. In connection with that settlement, BNSF and NS dismissed with prejudice their arbitration disputes for Wood River and Coffeen and these matters are fully resolved.

Coffeen and Duck Creek Rail Disputes — In April 2020, IPH, LLC (IPH) received notification that BNSF and NS were initiating dispute resolution related to IPH's suspension of its Coffeen Rail Transportation Agreement with the railroads, and Illinois Power Resources Generating, LLC (IPRG), received notification that BNSF was initiating dispute resolution related to IPRG's suspension of its Duck Creek Rail Transportation Agreement with BNSF. In November 2019, IPH and IPRG sent suspension notices to the railroads asserting that the Illinois Multi-Pollutant Standards (MPS) rule requirement to retire at least 2,000 megawatts of generation (see discussion below) was a change-in-law under the agreement that rendered continued operation of the plants no longer economically feasible. In addition, IPH and IPRG asserted that the MPS rule's retirement requirement also qualified as a force majeure event under the agreements excusing performance. In March 2021, we entered into a confidential settlement agreement with BNSF to resolve the Duck Creek matter and a separate confidential settlement agreement with BNSF and NS to resolve the Coffeen and Wood River matter discussed above. BNSF has dismissed with prejudice the Duck Creek arbitration dispute and this matter is now fully resolved. The settlement of these rail disputes did not have a material impact on our financial statements.

Winter Storm Uri Legal Proceedings

Repricing Challenges — In March 2021, we filed an appeal in the Third Court of Appeals in Austin, Texas (Third Court of Appeals), challenging the PUCT's February 15 and February 16, 2021 orders governing ERCOT's determination of wholesale power prices during load-shedding events. We filed our opening brief in June 2021, and response briefs were filed in September 2021. In our brief, we argue that the prior PUCT rushed to adopt a rule that dramatically raised the price of electricity in ERCOT, but in doing so failed to follow any of the rulemaking procedures required for the PUCT to undertake an emergency rulemaking, and we have asked the court to vacate this rule. Other parties also filed briefs in support of our challenge to the PUCT's orders. In addition, we have also submitted settlement disputes with ERCOT over power prices and other issues during Winter Storm Uri. Following an appeal of the PUCT's March 5, 2021 verbal order and other statements made by the PUCT, the Texas Attorney General, on behalf of the PUCT, its client, represented in a letter agreement filed with the Third Court of Appeals that the PUCT has not prejudged or made a final decision on whether to reprice and that we and other parties may continue disputing the pricing through the ERCOT process.

Koch Disputes — In March 2021, we filed a lawsuit in Texas state court against Odessa-Ector Power Partners, L.P., Koch Resources, LLC, Koch AG & Energy Solutions, LLC, and Koch Energy Services, LLC (Koch) seeking equitable relief in which we contested the amount of the February 2021 earnout payment under the terms of the 2017 asset purchase agreement (APA) with Koch pursuant to which we purchased our Odessa gas power plant for \$350 million. Koch subsequently filed its own related lawsuit in Delaware Chancery Court. The APA dispute will now proceed in Delaware Chancery Court which will consider all our equitable and other claims, including our claim contesting Koch's demand for \$286 million for the February 2021 earnout payment as an unjust windfall and inconsistent with the parties' intent when they entered into the APA in 2017. Because Koch is seeking a \$286 million payment in the lawsuit, we have recorded a liability of that amount in other noncurrent liabilities and deferred credits in our condensed consolidated balance sheets. However, we will defend the case vigorously and believe that it is reasonably possible we will prevail in litigation and will not be required to pay Koch this amount.

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In addition, in March 2021, we filed a lawsuit in New York state court against Koch for breach of contract and ineffective force majeure for Koch's failure to deliver gas during the event pursuant to a gas supply contract with them, as well as a claim for unjust enrichment by selling gas to others at higher prices rather than fulfilling their contract obligations to us. Koch has removed that case to New York federal court.

Regulatory Investigations and Other Litigation Matters — Following the events of Winter Storm Uri, various regulatory bodies, including ERCOT, the ERCOT Independent Market Monitor, the Texas Attorney General, the FERC and the NRC initiated investigations or issued requests for information of various parties related to the significant load shed event that occurred during the event as well as operational challenges for generators arising from the event, including performance and fuel and supply issues. We are responding to all those investigatory requests. In addition, a number of personal injury and wrongful death lawsuits related to Winter Storm Uri have been filed in various Texas state courts against us and numerous generators, transmission and distribution utilities, retail and electric providers, as well as ERCOT. We and other defendants requested that all pretrial proceedings in these personal injury cases be consolidated and transferred to a single multi-district litigation (MDL) pretrial judge. In June 2021, the MDL panel granted the request to consolidate all these cases into a MDL for pretrial proceedings.

Climate Change

In January 2021, the Biden administration issued a series of Executive Orders, including one titled *Protecting Public Health and the Environment and Restoring Science to Tackle the Climate Crisis* (the Environment Executive Order) which directed agencies, including the EPA, to review various agency actions promulgated during the prior administration and take action where the previous administration's action conflicts with national objectives. Several of the EPA agency actions discussed below are now subject to this review.

Greenhouse Gas Emissions

In August 2015, the EPA finalized rules to address GHG emissions from electricity generation units, referred to as the Clean Power Plan, including rules for existing facilities that would establish state-specific emissions rate goals to reduce nationwide CO₂ emissions. Various parties filed petitions for review in the U.S. Court of Appeals for the District of Columbia Circuit (D.C. Circuit Court). In July 2019, petitioners filed a joint motion to dismiss in light of the EPA's issuance of the rule that replaced the Clean Power Plan, the Affordable Clean Energy rule, discussed below. In September 2019, the D.C. Circuit Court granted petitioners' motion to dismiss and dismissed all of the petitions challenging the Clean Power Plan as moot.

In July 2019, the EPA finalized a rule to repeal the Clean Power Plan, with new regulations addressing GHG emissions from existing coal-fueled electric generation units, referred to as the Affordable Clean Energy (ACE) rule. The ACE rule developed emission guidelines that states must use when developing plans to regulate GHG emissions from existing coal-fueled electric generating units. The ACE rule set a deadline of July 2022 for states to submit their plans for regulating GHG emissions from existing facilities. States where we operate coal plants (i.e., Texas, Illinois and Ohio) began to develop their state plans to comply with the rule. Environmental groups and certain states filed petitions for review of the ACE rule and the repeal of the Clean Power Plan in the D.C. Circuit Court, and the D.C. Circuit Court heard argument on those issues in October 2020. In January 2021, the D.C. Circuit Court vacated the ACE rule and remanded the rule to the EPA for further action. In its decision, the D.C. Circuit Court concluded that the EPA's basis for repealing the Clean Power Plan and adopting the ACE rule was not supported by the Clean Air Act. In April 2021, the State of West Virginia and certain other parties filed a petition for writ of certiorari with the U.S. Supreme Court of the D.C. Circuit Court's decision, and in June 2021, the State of North Dakota also filed a petition for writ of certiorari. In October 2021, the U.S. Supreme Court granted four petitions for certiorari and consolidated the cases for review. Additionally, in December 2018, the EPA issued proposed revisions to the emission standards for new, modified and reconstructed units. Vistra submitted comments on that proposed rulemaking in March 2019. In January 2021, the EPA, just prior to the transition to the Biden administration, issued a final rule setting forth a significant contribution finding for the purpose of regulating GHG emissions from new, modified, or reconstructed electric utility generating units. The final rule excludes sectors from future regulation where GHG emissions make up less than three percent of U.S. GHG emissions. The final rule did not set any specific emission limits for new, modified, or reconstructed electric utility generating units. In April 2021, the D.C. Circuit Court granted the EPA's unopposed motion for voluntary vacatur and remand of the GHG significant contribution rule. The ACE rule and the rule on significant contribution are subject to the Environment Executive Order discussed above.

Regional Haze — Reasonable Progress and Best Available Retrofit Technology (BART) for Texas

In October 2017, the EPA issued a final rule addressing BART for Texas electricity generation units, with the rule serving as a partial approval of Texas' 2009 State Implementation Plan (SIP) and a partial Federal Implementation Plan (FIP). For SO₂, the rule established an intrastate Texas emission allowance trading program as a "BART alternative" that operates in a similar fashion to a CSAPR trading program. The program includes 39 generating units (including our Martin Lake, Big Brown, Monticello, Sandow 4, Coleto Creek, Stryker 2 and Graham 2 plants). The compliance obligations in the program started on January 1, 2019. The retirements of our Monticello, Big Brown and Sandow 4 plants have enhanced our ability to comply with this BART rule for SO₂. For NO_X, the rule adopted the CSAPR's ozone program as BART and for particulate matter, the rule approved Texas's SIP that determines that no electricity generation units are subject to BART for particulate matter. Various parties filed a petition challenging the rule in the U.S. Court of Appeals for the Fifth Circuit (Fifth Circuit Court) as well as a petition for reconsideration filed with the EPA. Luminant intervened on behalf of the EPA in the Fifth Circuit Court action. In March 2018, the Fifth Circuit abated its proceedings pending conclusion of the EPA's reconsideration process. In August 2020, the EPA issued a final rule affirming the prior BART final rule but also included additional revisions that were proposed in November 2019. In October 2020, environmental groups petitioned for review of this rule in both the D.C. Circuit Court and the Fifth Circuit Court. In December 2020, a panel of the Fifth Circuit Court consolidated the challenges to the BART final rule and issued an order transferring the case to the D.C. Circuit Court. We challenged that decision, but the Fifth Circuit Court denied reconsideration and denied our motion for leave to seek review of that denial by the full court. We are in compliance with the rule. The BART rule is subject to

Affirmative Defenses During Malfunctions

In May 2015, the EPA finalized a rule requiring 36 states, including Texas, Illinois and Ohio, to remove or replace either EPA-approved exemptions or affirmative defense provisions for excess emissions during upset events and unplanned maintenance and startup and shutdown events, referred to as the SIP Call. Various parties (including Luminant, the State of Texas and the State of Ohio) filed petitions for review of the EPA's final rule, and all of those petitions were consolidated in the D.C. Circuit Court. In April 2017, the D.C. Circuit Court ordered the case to be held in abeyance. In April 2019, the EPA Region 6 proposed a rule to withdraw the SIP Call with respect to the Texas affirmative defense provisions. We submitted comments on that proposed rulemaking in June 2019. In February 2020, the EPA issued the final rule withdrawing the Texas SIP Call. Following the issuance of the final rule for Texas, we moved to dismiss our challenge to the SIP Call, which was granted by the court. In April 2020, a group of environmental petitioners, including the Sierra Club, filed a petition in the D.C. Circuit Court challenging the EPA's action with respect to Texas. In October 2020, the EPA issued new guidance on the inclusion of startup, shutdown and malfunction (SSM) provisions in SIPs, which is intended to supersede the policy in the multi-state SIP Call. The guidance provides that the SIPs may contain provisions for SSM events if certain conditions are met. The EPA SSM guidance is subject to the Environment Executive Order discussed above. In April 2021, environmental groups petitioned the EPA for reconsideration and rulemaking regarding the EPA's rules withdrawing the SSM SIP Call for certain states, including Texas. In September 2021, the EPA issued a memorandum withdrawing the October 2020 memorandum addressing SSM provisions in SIPs and re-implementing the prior (2015) policy. In the 2021 memorandum, the EPA indicated it will revisit the SIP Call withdrawal for Texas that was finalized in 2020. We cannot predic

Illinois Multi-Pollutant Standards (MPS)

In August 2019, changes proposed by the Illinois Pollution Control Board to the MPS rule, which places NO_X , SO_2 and mercury emissions limits on our coal plants located in MISO went into effect. Under the revised MPS rule, our allowable SO_2 and NO_X emissions from the MISO fleet are 48% and 42% lower, respectively, than prior to the rule changes. The revised MPS rule requires the continuous operation of existing selective catalytic reduction (SCR) control systems during the ozone season, requires SCR-controlled units to meet an ozone season NO_X emission rate limit, and set an additional, site-specific annual SO_2 limit for our Joppa Power Station. Additionally, in 2019, the Company retired its Havana, Hennepin, Coffeen and Duck Creek plants thereby fully complying with the MPS rule's requirement to retire at least 2,000 MW of our generation in MISO.

SO2 Designations for Texas

In November 2016, the EPA finalized its nonattainment designations for counties surrounding our Big Brown, Monticello and Martin Lake generation plants. The final designations require Texas to develop nonattainment plans for these areas. In February 2017, the State of Texas and Luminant filed challenges to the nonattainment designations in the Fifth Circuit Court. Subsequently, in October 2017, the Fifth Circuit Court granted the EPA's motion to hold the case in abeyance considering the EPA's representation that it intended to revisit the nonattainment rule. In December 2017, the TCEQ submitted a petition for reconsideration to the EPA. In August 2019, the EPA issued a proposed Error Correction Rule for all three areas, which, if finalized, would revise its previous nonattainment designations and each area at issue would be designated unclassifiable. In September 2019, we submitted comments in support of the proposed Error Correction Rule. In April 2020, the Sierra Club filed suit to compel the EPA to issue a Finding of Failure to submit an attainment plan with respect to the three areas in Texas. In August 2020, the EPA issued a Finding of Failure for Texas to submit an attainment plan. In September 2020, the EPA proposed a "Clean Data" determination for the areas surrounding the retired Big Brown and Monticello plants, which was finalized in May 2021, redesignating those areas as attainment based on monitoring data supporting an attainment designation. In June 2021, the EPA published two notices; one that it was withdrawing the August 2019 Error Correction Rule and a second separate notice denying petitions from Luminant and the State of Texas to reconsider the original nonattainment designations. We, along with the State of Texas, challenged that EPA action and have consolidated it with the pending challenge in the Fifth Circuit Court with the matter likely being fully briefed by March 2022. In September 2021, the TCEQ considered a proposal for its nonattainment SIP revision for the Martin Lake area and an agreed order to reduce SO₂ emissions from the plant. The proposed agreed order associated with the SIP proposal will not reduce emission limits until January 2022, and any reductions will be those necessary to meet the NAAQS. Once finalized, the TCEQ's SIP action will be submitted to the EPA for review and approval.

Effluent Limitation Guidelines (ELGs)

In November 2015, the EPA revised the ELGs for steam electricity generation facilities, which will impose more stringent standards (as individual permits are renewed) for wastewater streams, such as flue gas desulfurization (FGD), fly ash, bottom ash and flue gas mercury control wastewaters. Various parties filed petitions for review of the ELG rule, and the petitions were consolidated in the Fifth Circuit Court. In April 2017, the EPA granted petitions requesting reconsideration of the ELG rule and administratively stayed the rule's compliance date deadlines. In August 2017, the EPA announced that its reconsideration of the ELG rule would be limited to a review of the effluent limitations applicable to FGD and bottom ash wastewaters and the agency subsequently postponed the earliest compliance dates in the ELG rule for the application of effluent limitations for FGD and bottom ash wastewaters from November 1, 2018 to November 1, 2020. Based on these administrative developments, the Fifth Circuit Court agreed to sever and hold in abeyance challenges to effluent limitations. The remainder of the case proceeded, and in April 2019 the Fifth Circuit Court vacated and remanded portions of the EPA's ELG rule pertaining to effluent limitations for legacy wastewater and leachate. In November 2019, the EPA issued a proposal that would extend the compliance deadline for FGD wastewater to no later than December 31, 2025 and maintains the December 31, 2023 compliance date for bottom ash transport water. The proposal also creates new sub-categories of facilities with more flexible FGD compliance options, including a retirement exemption to 2028 and a low utilization boiler exemption. The proposed rule also modified some of the FGD final effluent limitations. We filed comments on the proposal in January 2020. The EPA published the final rule in October 2020. The final rule extends the compliance date for both FGD and bottom ash transport water to no later than December 2025, as negotiated with the state permitting agency. Additionally, the final rule allows for a retirement exemption that exempts facilities certifying that units will retire by December 2028 provided certain effluent limitations are met. In November 2020, environmental groups petitioned for review of the new ELG revisions, and Vistra subsidiaries filed a motion to intervene in support of the EPA in December 2020. Notifications were made to Texas, Illinois and Ohio state agencies on the retirement exemption for applicable coal plants by the regulatory deadline of October 13, 2021. The litigation is in abeyance pending the EPA's reconsideration of the ELG revisions finalized in 2020.

Coal Combustion Residuals/Groundwater

In July 2018, the EPA published a final rule, which became effective in August 2018, that amends certain provisions of the CCR rule that the agency issued in 2015. Among other changes, the 2018 revisions extended closure deadlines to October 31, 2020, related to the aquifer location restriction and groundwater monitoring requirements. Also, in August 2018, the D.C. Circuit Court issued a decision that vacates and remands certain provisions of the 2015 CCR rule, including an applicability exemption for legacy impoundments. In December 2019, the EPA issued a proposed rule containing a revised closure deadline for unlined CCR impoundments and new procedures for seeking extensions of that revised closure deadline. We filed comments on the proposal in January 2020. In August 2020, the EPA issued a rule finalizing the December 2019 proposal, establishing a deadline of April 11, 2021 to cease receipt of waste and initiate closure at unlined CCR impoundments. The final rule allows a generation plant to seek the EPA's approval to extend this deadline if no alternative disposal capacity is available and either a conversion to comply with the CCR rule is underway or retirement will occur by either 2023 or 2028 (depending on the size of the impoundment at issue). Prior to the November 2020 deadline, we submitted applications to the EPA requesting compliance extensions under both conversion and retirement scenarios. In November 2020, environmental groups petitioned for review of this rule in the D.C. Circuit Court, and Vistra subsidiaries filed a motion to intervene in support of the EPA in December 2020. Also, in November 2020, the EPA finalized a rule that would allow an alternative liner demonstration for certain qualifying facilities. In November 2020, we submitted an alternate liner demonstration for one CCR unit at Martin Lake. In October 2020, the EPA published an advanced notice of proposed rulemaking requesting information to inform the EPA in the development of a rule to address legacy impoundments that existed prior to the 2015 CCR regulation as required by the August 2018 D.C. Circuit Court decision. We filed comments on this proposal in February 2021. The EPA has completed its review under the Environmental Executive Order of the rules on revised closure deadlines and alternative liner demonstrations. The EPA determined that the most environmentally protective course is to implement the rules. In August 2021, we submitted a request to transfer our conversion application for the Zimmer facility to a retirement application following announcement that Zimmer will close by May 31, 2022. The EPA has not yet acted on any of our conversion or retirement applications.

MISO — In 2012, the Illinois Environmental Protection Agency (IEPA) issued violation notices alleging violations of groundwater standards onsite at our Baldwin and Vermilion facilities' CCR surface impoundments. These violation notices remain unresolved; however, in 2016, the IEPA approved our closure and post-closure care plans for the Baldwin old east, east, and west fly ash CCR surface impoundments. We are working towards implementation of those closure plans.

At our retired Vermilion facility, which was not subject to the EPA's 2015 CCR rule until the aforementioned D.C. Circuit Court decision in August 2018, we submitted proposed corrective action plans involving closure of two CCR surface impoundments (*i.e.*, the old east and the north impoundments) to the IEPA in 2012, and we submitted revised plans in 2014. In May 2017, in response to a request from the IEPA for additional information regarding the closure of these Vermilion surface impoundments, we agreed to perform additional groundwater sampling and closure options and riverbank stabilizing options. In May 2018, Prairie Rivers Network (PRN) filed a citizen suit in federal court in Illinois against DMG, alleging violations of the Clean Water Act for alleged unauthorized discharges. In August 2018, we filed a motion to dismiss the lawsuit. In November 2018, the district court granted our motion to dismiss and judgment was entered in our favor. In June 2021, the U.S. Court of Appeals for the Seventh Circuit affirmed the district court's dismissal of the lawsuit, but stated that PRN may refile. In April 2019, PRN also filed a complaint against DMG before the IPCB, alleging that groundwater flows allegedly associated with the ash impoundments at the Vermilion site have resulted in exceedances both of surface water standards and Illinois groundwater standards dating back to 1992. In July 2021, we answered that complaint, and this matter is in the very early stages.

In 2012, the IEPA issued violation notices alleging violations of groundwater standards at the Newton and Coffeen facilities' CCR surface impoundments. We are addressing these CCR surface impoundments in accordance with the federal CCR rule. In June 2018, the IEPA issued a violation notice for alleged seep discharges claimed to be coming from the surface impoundments at our retired Vermilion facility, which is owned by our subsidiary DMG, and that notice was referred to the Illinois Attorney General. In June 2021, the Illinois Attorney General and the Vermilion County State Attorney filed a complaint in Illinois state court with an agreed interim consent order which the court subsequently entered. Given the violation notices and the enforcement action, the unique characteristics of the site, and the proximity of the site to the only national scenic river in Illinois, we agreed to enter into the interim consent order to resolve this matter. Per the terms of the agreed interim consent order, DMG is required to evaluate the closure alternatives under the requirements of the newly implemented Illinois Coal Ash regulation (discussed below) and close the site by removal. In addition, the interim consent order requires that during the impoundment closure process, impacted groundwater will be collected before it leaves the site or enters the nearby Vermilion river and, if necessary, DMG will be required to install temporary riverbank protection if the river migrates within a certain distance of the impoundments. These proposed closure costs are reflected in the ARO in our condensed consolidated balance sheets (see Note 17). In September 2021, PRN filed a motion to intervene in this enforcement action. In October 2021, the court granted PRN narrow discretionary intervention.

In December 2018, the Sierra Club filed a complaint with the IPCB alleging the disposal and storage of coal ash at the Coffeen, Edwards and Joppa generation facilities are causing exceedances of the applicable groundwater standards. In April 2021, we entered into a settlement agreement with the Sierra Club to resolve this matter. As part of that agreement, we agreed to close the Joppa Power Plant by September 1, 2022. This matter is now fully resolved.

In July 2019, coal ash disposal and storage legislation in Illinois was enacted. The legislation addresses state requirements for the proper closure of coal ash ponds in the state of Illinois. The law tasks the IEPA and the IPCB to set up a series of guidelines, rules and permit requirements for closure of ash ponds. In March 2020, the IEPA issued its proposed rule. Under the proposed rule, coal ash impoundment owners would be required to submit a closure alternative analysis to the IEPA for the selection of the best method for coal ash remediation at a particular site. The proposed rule does not mandate closure by removal at any site. Public hearings for the proposed rule were held in August 2020 and September 2020. The rule was finalized and became effective in April 2021. In May 2021, we filed an appeal in the Illinois Fourth Judicial District over certain provisions of the final rule. We filed our opening brief in October 2021. Other parties have also filed appeals of certain provisions of the final rule. In October 2021, we filed operating permit applications for 18 impoundments as required by the Illinois coal ash rule.

For all of the above matters, if certain corrective action measures, including groundwater treatment or removal of ash, are required at any of our coal-fueled facilities, we may incur significant costs that could have a material adverse effect on our financial condition, results of operations and cash flows. The Illinois coal ash rule was finalized in April 2021 and does not require removal. However, the rule will require us to undertake further site specific evaluations which are underway. We will not know the full range of decommissioning costs, including groundwater remediation, if any, that ultimately may be required under the Illinois rule until permit applications have been submitted and approved by the IEPA. However, the currently anticipated CCR surface impoundment and landfill closure costs, as contained in our AROs, reflect the costs of closure methods that meet the requirements and that our operations and environmental services teams believe are appropriate and protective of the environment for each location.

MISO 2015-2016 Planning Resource Auction

In May 2015, three complaints were filed at FERC regarding the Zone 4 results for the 2015-2016 planning resource auction (PRA) conducted by MISO. Dynegy is a named party in one of the complaints. The complainants, Public Citizen, Inc., the Illinois Attorney General and Southwestern Electric Cooperative, Inc. (Complainants), challenged the results of the PRA as unjust and unreasonable, requested rate relief/refunds, and requested changes to the MISO planning resource auction structure going forward. Complainants also alleged that Dynegy may have engaged in economic or physical withholding in Zone 4 constituting market manipulation in the PRA. The Independent Market Monitor for MISO (MISO IMM), which was responsible for monitoring the PRA, determined that all offers were competitive and that no physical or economic withholding occurred. The MISO IMM also stated, in a filing responding to the complaints, that there is no basis for the remedies sought by the Complainants. We filed our answer to these complaints explaining that we complied fully with the terms of the MISO tariff in connection with the PRA and disputing the allegations. The Illinois Industrial Energy Consumers filed a related complaint at FERC against MISO in June 2015 requesting prospective changes to the MISO tariff. Dynegy also responded to this complaint with respect to Dynegy's conduct alleged in the complaint.

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In October 2015, FERC issued an order of nonpublic, formal investigation (the investigation) into whether market manipulation or other potential violations of FERC orders, rules and regulations occurred before or during the PRA.

In December 2015, FERC issued an order on the complaints requiring a number of prospective changes to the MISO tariff provisions effective as of the 2016-2017 planning resource auction. The order did not address the arguments of the Complainants regarding the PRA and stated that those issues remained under consideration and would be addressed in a future order.

In July 2019, FERC issued an order denying the remaining issues raised by the complaints and noted that the investigation into Dynegy was closed. FERC found that Dynegy's conduct did not constitute market manipulation and the results of the PRA were just and reasonable because the PRA was conducted in accordance with MISO's tariff. With the issuance of the order, this matter has been resolved in Dynegy's favor. The request for rehearing was denied by FERC in March 2020. The order was appealed by Public Citizen, Inc. to the D.C. Circuit Court in May 2020, and Vistra, Dynegy and Illinois Power Marketing Company intervened in the case in June 2020. In August 2021, the D.C. Circuit Court issued a ruling denying Public Citizen, Inc.'s arguments that FERC failed to meet its obligation to ensure just and reasonable rates because it did not review the prices resulting from the auction before those prices went into effect and that FERC was arbitrary and capricious in failing to adequately explain its decision to close its investigation into whether Dynegy engaged in market manipulation. The D.C. Circuit Court of Appeals granted Public Citizen, Inc.'s petition in part finding that FERC's decision that the auction results were just and reasonable solely because the auction process complied with the filed tariff was unreasoned and remanded the case back to FERC for further proceedings on that issue.

Other Matters

We are involved in various legal and administrative proceedings and other disputes in the normal course of business, the ultimate resolutions of which, in the opinion of management, are not anticipated to have a material effect on our results of operations, liquidity or financial condition.

12. EQUITY

Share Repurchase Programs

In October 2021, we announced that the Board has authorized a new share repurchase program (Share Repurchase Program) under which up to \$2.0 billion of our outstanding shares of common stock may be repurchased. The Share Repurchase Program became effective on October 11, 2021, at which time it superseded the Prior Share Repurchase Program (described below) and any authorization remaining as of such date. We intend to use the net proceeds from the Offering (described below) to repurchase shares of our outstanding common stock. We expect to complete repurchases under the Share Repurchase Program by the end of 2022.

Under the Share Repurchase Program, shares of the Company's common stock may be repurchased in open market transactions at prevailing market prices, in privately negotiated transactions, pursuant to plans complying with the Exchange Act, or by other means in accordance with federal securities laws. The actual timing, number and value of shares repurchased under the Share Repurchase Program or otherwise will be determined at our discretion and will depend on a number of factors, including our capital allocation priorities, the market price of our stock, general market and economic conditions, applicable legal requirements and compliance with the terms of our debt agreements.

In September 2020, we announced that the Board authorized a share repurchase program (Prior Share Repurchase Program) under which up to \$1.5 billion of our outstanding shares of common stock may be repurchased. The Prior Share Repurchase Program became effective on January 1, 2021. No shares were repurchased in the three months ended September 30, 2021. In the nine months ended September 30, 2021, 8,658,153 shares of our common stock were repurchased under the Prior Share Repurchase Program for approximately \$175 million (including related fees and expenses) at an average price of \$20.21 per share of common stock. As of September 30, 2021, approximately \$1.325 billion was available for additional repurchases under the Prior Share Repurchase Program, which amount has been superseded by the Share Repurchase Program.

Series A Preferred Stock

On October 15, 2021 (Issuance Date), we issued of 1,000,000 shares of Series A Preferred Stock in a private offering (Offering). The net proceeds of the Offering were approximately \$990 million, after deducting underwriting commissions and offering expenses. We intend to use the net proceeds from the Offering to repurchase shares of our outstanding common stock under the Share Repurchase Program (described above).

The Series A Preferred Stock is not convertible into or exchangeable for any other securities of the Company and has limited voting rights. The Series A Preferred Stock may be redeemed at the option of the Company at any time after the First Reset Date (defined below) and in certain other circumstances prior to the First Reset Date.

Dividends

Common Stock — In November 2018, Vistra announced the Board adopted a dividend program which we initiated in the first quarter of 2019. Each dividend under the program is subject to declaration by the Board and, thus, may be subject to numerous factors in existence at the time of any such declaration including, but not limited to, prevailing market conditions, Vistra's results of operations, financial condition and liquidity, Delaware law and any contractual limitations.

In February 2020, April 2020, July 2020 and October 2020, the Board declared quarterly dividends of \$0.135 per share that were paid in March 2020, June 2020, September 2020 and December 2020, respectively.

In February 2021, April 2021 and July 2021, the Board declared a quarterly dividend of \$0.15 per share that was paid in March 2021, June 2021 and September 2021, respectively. In October 2021, the Board declared a quarterly dividend of \$0.15 per share that will be paid in December 2021.

Preferred Stock — The annual dividend rate on each share of Series A Preferred Stock is 8.0% from the Issuance Date to, but excluding October 15, 2026 (First Reset Date). On and after the First Reset Date, the dividend rate on each share of Series A Preferred Stock shall equal the five-year U.S. Treasury rate as of the most recent reset dividend determination date (subject to a floor of 1.07%), plus a spread of 6.93% per annum. The Series A Preferred Stock has a liquidation preference of \$1,000 per share, plus accumulated but unpaid dividends. Cumulative cash dividends on the Series A Preferred Stock are payable semiannually, in arrears, on each April 15 and October 15, commencing on April 15, 2022, when, as and if declared by the Board.

Dividend Restrictions

The Credit Facilities Agreement generally restricts the ability of Vistra Operations to make distributions to any direct or indirect parent unless such distributions are expressly permitted thereunder. As of September 30, 2021, Vistra Operations can distribute approximately \$6.3 billion to Parent under the Credit Facilities Agreement without the consent of any party. The amount that can be distributed by Vistra Operations to Parent was partially reduced by distributions made by Vistra Operations to Parent of approximately \$75 million and \$255 million during the three months ended September 30, 2021 and 2020, respectively, and \$405 million and \$1.105 billion during the nine months ended September 30, 2021 and 2020, respectively. Additionally, Vistra Operations may make distributions to Parent in amounts sufficient for Parent to make any payments required under the TRA or the Tax Matters Agreement or, to the extent arising out of Parent's ownership or operation of Vistra Operations, to pay any taxes or general operating or corporate overhead expenses. As of September 30, 2021, all of the restricted net assets of Vistra Operations may be distributed to Parent.

In addition to the restrictions under the Credit Facilities Agreement, under applicable Delaware law, we are only permitted to make distributions either out of "surplus," which is defined as the excess of our net assets above our capital (the aggregate par value of all outstanding shares of our stock), or out of net profits for the fiscal year in which the distribution is declared or the prior fiscal year.

Under the terms of the Series A Preferred Stock, unless full cumulative dividends have been or contemporaneously are being paid or declared and a sum sufficient for the payment thereof set apart for payment on all outstanding Series A Preferred Stock (and any parity securities) with respect to dividends through the most recent dividend payment dates, (i) no dividend may be declared or paid or set apart for payment on any junior security (other than a dividend payable solely in junior securities with respect to both dividends and the liquidation, winding-up and dissolution of our affairs), including our common stock, and (ii) we may not redeem, purchase or otherwise acquire any parity security or junior security, including our common stock, in each case subject to certain exceptions as described in the certificate of designation of the Series A Preferred Stock.

Warrants

At the Merger Date, the Company entered into an agreement whereby the holder of each outstanding warrant previously issued by Dynegy would be entitled to receive, upon paying an exercise price of \$35.00 (subject to adjustment from time to time), the number of shares of Vistra common stock that such holder would have been entitled to receive if it had held one share of Dynegy common stock at the closing of the Merger, or 0.652 shares of Vistra common stock. Accordingly, upon exercise, a warrant holder would effectively pay \$53.68 (subject to adjustment of the exercise price from time to time) per share of Vistra common stock received. In July 2021, in accordance with the terms of the warrant agreement, the exercise price of each warrant was adjusted downward to \$34.54 (subject to further adjustment from time to time), or \$52.98 (subject to adjustment of the exercise price from time to time) per share of Vistra common stock received. As of September 30, 2021, nine million warrants expiring in 2024 were outstanding. The warrants were included in equity based on their fair value at the Merger Date.

Equity

The following table presents the changes to equity for the three months ended September 30, 2021:

	Comm Stock		1	Treasury Stock		Additional Paid-in Capital		Retained Earnings (Deficit)		Accumulated Other Comprehensive Income (Loss)		Total Stockholders' Equity	Noncontrolling Interest		Total Equity		
Balance at June 30, 2021	\$	5	\$	(1,148)	\$	9,816	\$	(2,552)	\$	(45)	\$	6,076	\$	(8)	\$	6,068	
Stock repurchases		_		_		_		_		_		_		_		_	
Dividends declared on common stock		_		_		_		(72)		_		(72)		_		(72)	
Effects of stock-based incentive compensation plans		_		_		12		_		_		12		_		12	
Net income (loss)		_		_		_		7		_		7		3		10	
Change in accumulated other comprehensive income (loss)		_		_		_		_		14		14				14	
Other		_		_		1		(2)		_		(1)		_		(1)	
Balance at September 30, 2021	\$	5	\$	(1,148)	\$	9,829	\$	(2,619)	\$	(31)	\$	6,036	\$	(5)	\$	6,031	

The following table presents the changes to equity for the nine months ended September 30, 2021:

	Comn Stock			Treasury Stock		Additional Paid-in Capital	Retained Earnings (Deficit)		Accumulated Other Comprehensive Income (Loss)			Total Stockholders' Equity	Noncontrolling Interest in Subsidiary	Tot	al Equity
Balance at															
December 31, 2020	\$	5	\$	(973)	\$	9,786	\$ (3	99)	\$	(48)	\$	8,371	\$ (10)	\$	8,361
Stock repurchases		_		(175)		_		_				(175)	_		(175)
Dividends declared on common stock		_		_		_	(2	19)		_		(219)	_		(219)
Effects of stock-based incentive compensation plans		_		_		39				_		39	_		39
Net income (loss)		_		_		_	(2,0	00)		_		(2,000)	6		(1,994)
Change in accumulated other comprehensive income (loss)		_		_		_				17		17	_		17
Other		_		_		4		(1)		_		3	(1)		2
Balance at September 30, 2021	\$	5	\$	(1,148)	\$	9,829	\$ (2,6	19)	\$	(31)	\$	6,036	\$ (5)	\$	6,031

⁽a) Authorized shares totaled 1,800,000,000 at September 30, 2021. Outstanding common shares totaled 482,551,344 and 489,305,888 at September 30, 2021 and December 31, 2020, respectively. Treasury shares totaled 49,701,377 and 41,043,224 at September 30, 2021 and December 31, 2020, respectively.

The following table presents the changes to equity for the three months ended September 30, 2020:

	mon ock	Treasury Stock		Additional Paid-in Capital		Retained Earnings (Deficit)		cumulated Other Comprehensive Income (Loss)	Total ckholders' Equity	Noncontrolling Interest			Total Equity
Balance at June 30, 2020	\$ 5	\$	(973)	\$ 9,754	\$	(678)	\$	(52)	\$ 8,056	\$	(12)	\$	8,044
Dividends declared on common stock	_		_	_		(66)		_	(66)		_		(66)
Effects of stock-based incentive compensation plans	_		_	18		_		_	18		_		18
Net income	_		_	_		443		_	443		(1)		442
Change in accumulated other comprehensive income (loss)	_		_	_		_		(4)	(4)		_		(4)
Other	_		_	(1)		(2)			(3)		_		(3)
Balance at September 30, 2020	\$ 5	\$	(973)	\$ 9,771	\$	(303)	\$	(56)	\$ 8,444	\$	(13)	\$	8,431

The following table presents the changes to equity for the nine months ended September 30, 2020:

		Common Stock (a)		Treasury Stock		Additional Paid-in Capital		Retained Earnings (Deficit)		Accumulated Other Comprehensive Income (Loss)		Total Stockholders' Equity		Noncontrolling Interest in Subsidiary	Total Equity		
Balance at December 31, 2019	•	\$ 5	\$	(973)	\$	9,721	\$	(764)	\$	(30)	\$	7,959	\$	1	\$	7,960	
Dividends declared on common stock				_		_		(198)		_		(198)		_		(198)	
Effects of stock-based incentive compensation pla	ans	_		_		48		_		_		48		_		48	
Net income (loss)		_		_		_		665		_		665		(14)		651	
Adoption of accounting standard		_		_		_		(4)		_		(4)		_		(4)	
Change in accumulated oth comprehensive income (lo		_		_		_		_		(26)		(26)		_		(26)	
Other		_		_		2		(2)		_		_		_		_	
Balance at September 30, 202	20	\$ 5	\$	(973)	\$	9,771	\$	(303)	\$	(56)	\$	8,444	\$	(13)	\$	8,431	

⁽a) Authorized shares totaled 1,800,000,000 at September 30, 2020. Outstanding common shares totaled 488,874,505 and 487,698,111 at September 30, 2020 and December 31, 2019, respectively. Treasury shares totaled 41,043,224 at both September 30, 2020 and December 31, 2019.

13. FAIR VALUE MEASUREMENTS

We utilize several different valuation techniques to measure the fair value of assets and liabilities, relying primarily on the market approach of using prices and other market information for identical and/or comparable assets and liabilities for those items that are measured on a recurring basis. We use a mid-market valuation convention (the mid-point price between bid and ask prices) as a practical expedient to measure fair value for the majority of our assets and liabilities and use valuation techniques to maximize the use of observable inputs and minimize the use of unobservable inputs. Our valuation policies and procedures were developed, maintained and validated by a centralized risk management group that reports to the Vistra Chief Financial Officer.

Fair value measurements of derivative assets and liabilities incorporate an adjustment for credit-related nonperformance risk. These nonperformance risk adjustments take into consideration master netting arrangements, credit enhancements and the credit risks associated with our credit standing and the credit standing of our counterparties (see Note 14 for additional information regarding credit risk associated with our derivatives). We utilize credit ratings and default rate factors in calculating these fair value measurement adjustments.

We categorize our assets and liabilities recorded at fair value based upon the following fair value hierarchy:

- Level 1 valuations use quoted prices in active markets for identical assets or liabilities that are accessible at the measurement date. Our Level 1
 assets and liabilities include CME or ICE (electronic commodity derivative exchanges) futures and options transacted through clearing brokers
 for which prices are actively quoted. We report the fair value of CME and ICE transactions without taking into consideration margin deposits,
 with the exception of certain margin amounts related to changes in fair value on certain CME transactions that are legally characterized as
 settlement of derivative contracts rather than collateral.
- Level 2 valuations utilize over-the-counter broker quotes, quoted prices for similar assets or liabilities that are corroborated by correlations or
 other mathematical means, and other valuation inputs such as interest rates and yield curves observable at commonly quoted intervals. We
 attempt to obtain multiple quotes from brokers that are active in the markets in which we participate and require at least one quote from two
 brokers to determine a pricing input as observable. The number of broker quotes received for certain pricing inputs varies depending on the depth
 of the trading market, each individual broker's publication policy, recent trading volume trends and various other factors.
- Level 3 valuations use unobservable inputs for the asset or liability. Unobservable inputs are used to the extent observable inputs are not available, thereby allowing for situations in which there is little, if any, market activity for the asset or liability at the measurement date. We use the most meaningful information available from the market combined with internally developed valuation methodologies to develop our best estimate of fair value. Significant unobservable inputs used to develop the valuation models include volatility curves, correlation curves, illiquid pricing delivery periods and locations and credit-related nonperformance risk assumptions. These inputs and valuation models are developed and maintained by employees trained and experienced in market operations and fair value measurements and validated by the Company's risk management group.

With respect to amounts presented in the following fair value hierarchy tables, the fair value measurement of an asset or liability (*e.g.*, a contract) is required to fall in its entirety in one level, based on the lowest level input that is significant to the fair value measurement.

Assets and liabilities measured at fair value on a recurring basis consisted of the following at the respective balance sheet dates shown below:

		Se	ptem	ber 30, 20)21					D	ecem	ber 31, 20	120		
	Level 1	Level 2		Level 3 (a)	R	eclass (b)	 Total	Level 1	I	Level 2		Level 3 (a)	R	eclass (b)	Total
Assets:															
Commodity contracts	\$ 2,881	\$ 1,165	\$	440	\$	116	\$ 4,602	\$ 452	\$	201	\$	205	\$	76	\$ 934
Interest rate swaps	_	39		_		_	39	_		72		_		_	72
Nuclear decommissioning trust – equity securities (c)	671	_		_			671	623		_		_			623
Nuclear decommissioning trust – debt securities (c)	_	654		_			654	_		618		_			618
Sub-total	\$ 3,552	\$ 1,858	\$	440	\$	116	5,966	\$ 1,075	\$	891	\$	205	\$	76	2,247
Assets measured at net asset value (d):			-					 							
Nuclear decommissioning trust – equity securities (c)							502								433
Total assets							\$ 6,468								\$ 2,680
Liabilities:															
Commodity contracts	\$ 3,519	\$ 1,265	\$	664	\$	116	\$ 5,564	\$ 578	\$	172	\$	183	\$	76	\$ 1,009
Interest rate swaps	_	280		_		_	280	_		404		_		_	404
Total liabilities	\$ 3,519	\$ 1,545	\$	664	\$	116	\$ 5,844	\$ 578	\$	576	\$	183	\$	76	\$ 1,413

- (a) See table below for description of Level 3 assets and liabilities.
- (b) Fair values are determined on a contract basis, but certain contracts result in a current asset and a noncurrent liability, or vice versa, as presented in our condensed consolidated balance sheets.
- (c) The nuclear decommissioning trust investment is included in the other investments line in our condensed consolidated balance sheets. See Note 17.
- (d) The fair value amounts presented in this line are intended to permit reconciliation of the fair value hierarchy to the amounts presented in our condensed consolidated balance sheets. Certain investments measured at fair value using the net asset value per share (or its equivalent) have not been classified in the fair value hierarchy.

Commodity contracts consist primarily of natural gas, electricity, coal and emissions agreements and include financial instruments entered into for economic hedging purposes as well as physical contracts that have not been designated as normal purchases or sales. Interest rate swaps are used to reduce exposure to interest rate changes by converting floating-rate interest to fixed rates. See Note 14 for further discussion regarding derivative instruments.

Nuclear decommissioning trust assets represent securities held for the purpose of funding the future retirement and decommissioning of our nuclear generation facility. These investments include equity, debt and other fixed-income securities consistent with investment rules established by the NRC and the PUCT.

The following tables present the fair value of the Level 3 assets and liabilities by major contract type and the significant unobservable inputs used in the valuations at September 30, 2021 and December 31, 2020:

					September 3	0, 2021		
		Fair	r Value					
Contract Type (a)	 Assets	Lia	bilities	Total	Valuation Technique	Significant Unobservable Input	Range (b)	Average (b)
Electricity purchases and sales	\$ 283	\$	(462)	\$ (179)	Income Approach	Hourly price curve shape (c)	\$ — to \$60 MWh	\$30
						Illiquid delivery periods for hub power prices and heat rates (d)	\$ 20 to \$160 MWh	\$90
Options	16		(97)	(81)	Option Pricing Model	Gas to power correlation (e) Power and gas volatility (e)	10 % to 100% 5 % to 500%	55% 248%
Financial transmission rights	81		(29)	52	Market Approach (f)	Illiquid price differences between settlement points (g)	\$ (30) to \$15 MWh	\$(6)
Natural gas	17		(70)	(53)	Income Approach	Gas basis (h)	\$ — to \$15 MMBtu	\$6
Coal	28		_	28	Income Approach	Probability of default (i) Recovery rate (j)	—% to 40% —% to 40%	20 % 20 %
Other (k)	15		(6)	9				
Total	\$ 440	\$	(664)	\$ (224)				

						December 31	, 2020			
		Fai	r Value							
Contract Type (a)	Assets	Lia	bilities	1	otal	Valuation Technique	Significant Unobservable Input	Ra	nge (b)	Average (b)
Electricity purchases and sales	\$ 61	\$	(90)	\$	(29)	Income Approach	Hourly price curve shape (c)	\$ — M	to \$85 IWh	\$43
							Illiquid delivery periods for ERCOT hub power prices and heat rates (d)	\$ 25 M	to \$12 IWh	5 \$75
Options	38		(56)		(18)	Option	Gas to power correlation (e)	30 %	to 100	% 64%
			` '		` ´	Pricing Model	Power and gas volatility (e)	5 %	to 665	% 336%
Financial transmission rights	92		(16)		76	Market Approach (f)	Illiquid price differences between settlement points (g)	\$ (5) M	to \$50 IWh	\$22
Natural gas	7		(14)		(7)	Income Approach	Gas basis (h)	\$ (1) M	to \$— MBtu	\$
Coal	1		(5)		(4)	Income	Probability of default (i)	— %	to 40	0% 20 %
					` '	Approach	Recovery rate (j)	%	to 40	0% 20 %
Other (k)	6		(2)		4					
Total	\$ 205	\$	(183)	\$	22					

⁽a) Electricity purchase and sales contracts include power and heat rate positions in ERCOT, PJM, ISO-NE, NYISO and MISO regions. The forward purchase contracts (swaps and options) used to hedge electricity price differences between settlement points are referred to as congestion revenue rights (CRRs) in ERCOT and financial transmission rights (FTRs) in PJM, ISO-NE, NYISO and MISO regions. Options consist of physical electricity options, spread options, swaptions and natural gas options.

⁽b) The range of the inputs may be influenced by factors such as time of day, delivery period, season and location. The average represents the arithmetic average of the underlying inputs and is not weighted by the related fair value or notional amount.

⁽c) Primarily based on the historical range of forward average hourly ERCOT North Hub prices.

⁽d) Primarily based on historical forward ERCOT and PJM power prices and ERCOT heat rate variability.

- (e) Primarily based on the historical forward correlation and volatility within ERCOT and PJM.
- (f) While we use the market approach, there is insufficient market data to consider the valuation liquid.
- (g) Primarily based on the historical price differences between settlement points within ERCOT hubs and load zones.
- (h) Primarily based on the historical forward PJM and Northeast gas basis prices.
- (i) Estimate of the range of probabilities of default based on past experience, the length of the contract, and both the Company's and the counterparty's credit ratings.
- (j) Estimate of the default recovery rate based on historical corporate rates.
- (k) Other includes contracts for environmental allowances.

See the table below for discussion of transfers between Level 2 and Level 3 for the three and nine months ended September 30, 2021 and 2020.

The following table presents the changes in fair value of the Level 3 assets and liabilities for the three and nine months ended September 30, 2021 and 2020.

	Three Months En	ded S	eptember 30,	Nine Months End	led Se	ptember 30,
	2021		2020	2021		2020
Net asset (liability) balance at beginning of period	\$ 46	\$	114	\$ 22	\$	(74)
Total unrealized valuation gains (losses) (a)	(174)		(22)			77
Purchases, issuances and settlements (b):						
Purchases	33		39	73		129
Issuances	(12)		(6)	(22)		(12)
Settlements	(72)		(20)	(238)		(68)
Transfers into Level 3 (c)	(28)		4	(26)		3
Transfers out of Level 3 (c)	(17)		7	(33)		61
Net change (d)	(270)		2	(246)		190
Net asset balance at end of period	\$ (224)	\$	116	\$ (224)	\$	116
Unrealized valuation gains (losses) relating to instruments held at end of period	\$ (224)	\$	(12)	\$ (240)	\$	119

⁽a) During both the three and nine months ended September 30, 2021, includes a net loss of \$263 million due to the discontinuance of normal purchase and sale accounting on a retail electric contract portfolio where physical settlement is no longer considered probable throughout the contract term.

⁽b) Settlements reflect reversals of unrealized mark-to-market valuations previously recognized in net income. Purchases and issuances reflect option premiums paid or received, including CRRs and FTRs.

⁽c) Includes transfers due to changes in the observability of significant inputs. All Level 3 transfers during the periods presented are in and out of Level 2. For the three months ended September 30, 2021, transfers into Level 3 primarily consist of gas derivatives where forward pricing inputs have become unobservable and transfers out of Level 3 primarily consist of power and coal derivatives where forward pricing inputs have become observable. For the nine months ended September 30, 2020, transfers out of Level 3 primarily consist of gas, power and coal derivatives where forward pricing inputs have become observable.

⁽d) Activity excludes change in fair value in the month positions settle. Substantially all changes in values of commodity contracts (excluding the net liabilities assumed in connection with the Merger) are reported as operating revenues in our condensed consolidated statements of operations.

14. COMMODITY AND OTHER DERIVATIVE CONTRACTUAL ASSETS AND LIABILITIES

Strategic Use of Derivatives

We transact in derivative instruments, such as options, swaps, futures and forward contracts, to manage commodity price and interest rate risk. See Note 13 for a discussion of the fair value of derivatives.

Commodity Hedging and Trading Activity — We utilize natural gas and electricity derivatives to reduce exposure to changes in electricity prices primarily to hedge future revenues from electricity sales from our generation assets and to hedge future purchased power costs for our retail operations. We also utilize short-term electricity, natural gas, coal, and emissions derivative instruments for fuel hedging and other purposes. Counterparties to these transactions include energy companies, financial institutions, electric utilities, independent power producers, fuel oil and gas producers, local distribution companies and energy marketing companies. Unrealized gains and losses arising from changes in the fair value of derivative instruments as well as realized gains and losses upon settlement of the instruments are reported in our condensed consolidated statements of operations in operating revenues and fuel, purchased power costs and delivery fees.

Interest Rate Swaps — Interest rate swap agreements are used to reduce exposure to interest rate changes by converting floating-rate interest rates to fixed rates, thereby hedging future interest costs and related cash flows. Unrealized gains and losses arising from changes in the fair value of the swaps as well as realized gains and losses upon settlement of the swaps are reported in our condensed consolidated statements of operations in interest expense and related charges. During 2019, Vistra entered into \$2.12 billion of new interest rate swaps, pursuant to which Vistra will pay a variable rate and receive a fixed rate. The terms of these new swaps were matched against the terms of certain existing swaps, effectively offsetting the hedge of the existing swaps and fixing the out-of-the-money position of such swaps. These matched swaps will settle over time, in accordance with the original contractual terms. The remaining existing swaps continue to hedge our exposure on \$2.30 billion of debt through July 2026.

Financial Statement Effects of Derivatives

Substantially all derivative contractual assets and liabilities are accounted for under mark-to-market accounting consistent with accounting standards related to derivative instruments and hedging activities. The following tables provide detail of derivative contractual assets and liabilities as reported in our condensed consolidated balance sheets at September 30, 2021 and December 31, 2020. Derivative asset and liability totals represent the net value of the contract, while the balance sheet totals represent the gross value of the contract. During both the three and nine months ended September 30, 2021, a net loss of \$357 million was recognized in operating revenues due to the discontinuance of normal purchase and sale accounting on a retail electric contract portfolio where physical settlement is no longer considered probable throughout the contract term. These amounts are reflected in commodity contracts derivative liabilities at September 30, 2021.

			осре	tember 30, 2021			
	Derivati	ve Assets		Derivative	Liabilities		
Commo	dity Contracts	Interest Rate Swaps	Comr	nodity Contracts	Interest Rate Swaps		Total
\$	4,106	\$ 19	\$	62	<u>\$</u>	\$	4,187
	424	20		10	_		454
	(15)	_		(4,861)	(72)		(4,948)
	(29)	_		(659)	(208)		(896)
\$	4,486	\$ 39	\$	(5,448)	\$ (280)	\$	(1,203)
	Commo \$ \$	Commodity Contracts \$ 4,106 424 (15) (29)	\$ 4,106 \$ 19 424 20 (15) — (29) —	Derivative Assets	Derivative Assets Derivative Commodity Contracts \$ 4,106 \$ 19 \$ 62 424 20 10 (15) — (4,861) (29) — (659)	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Derivative Assets Derivative Liabilities Commodity Contracts Interest Rate Swaps Commodity Contracts Interest Rate Swaps \$ 4,106 \$ 19 62 \$ — \$ 424 20 10 — (15) — (4,861) (72) (29) — (659) (208)

					Dece	eiiiber 31, 2020			
		Derivati	ve Assets			Derivative	Liabilitie	s	
	Commodity (Contracts	Interest	Rate Swaps	Comn	nodity Contracts	Interes	t Rate Swaps	Total
Current assets	\$	665	\$	19	\$	64	\$	_	\$ 748
Noncurrent assets		197		53		8		_	258
Current liabilities		(1)		_		(717)		(71)	(789)
Noncurrent liabilities		(3)		_		(288)		(333)	(624)
Net assets (liabilities)	\$	858	\$	72	\$	(933)	\$	(404)	\$ (407)

At September 30, 2021 and December 31, 2020, there were no derivative positions accounted for as cash flow or fair value hedges.

The following table presents the pre-tax effect of derivative gains (losses) on net income, including realized and unrealized effects. Amount represents changes in fair value of positions in the derivative portfolio during the period, as realized amounts related to positions settled are assumed to equal reversals of previously recorded unrealized amounts.

	Three Months En	ded S	September 30,	Nine Months End	led S	eptember 30,
Derivative (condensed consolidated statements of operations presentation)	2021		2020	2021		2020
Commodity contracts (Operating revenues)	\$ (919)	\$	147	\$ (1,017)	\$	410
Commodity contracts (Fuel, purchased power costs and delivery fees)	333		18	448		(40)
Interest rate swaps (Interest expense and related charges)	(1)		(2)	53		(209)
Net gain (loss)	\$ (587)	\$	163	\$ (516)	\$	161

Balance Sheet Presentation of Derivatives

We elect to report derivative assets and liabilities in our condensed consolidated balance sheets on a gross basis without taking into consideration netting arrangements we have with counterparties to those derivatives. We maintain standardized master netting agreements with certain counterparties that allow for the right to offset assets and liabilities and collateral in order to reduce credit exposure between us and the counterparty. These agreements contain specific language related to margin requirements, monthly settlement netting, cross-commodity netting and early termination netting, which is negotiated with the contract counterparty.

Generally, margin deposits that contractually offset these derivative instruments are reported separately in our condensed consolidated balance sheets, with the exception of certain margin amounts related to changes in fair value on CME transactions that are legally characterized as settlement of forward exposure rather than collateral. Margin deposits received from counterparties are primarily used for working capital or other general corporate purposes.

The following tables reconcile our derivative assets and liabilities on a contract basis to net amounts after taking into consideration netting arrangements with counterparties and financial collateral:

		September	30, 2	.021					December	31,	2020		
	erivative Assets Liabilities	Offsetting struments (a)	(I	h Collateral Received) edged (b)	Net	t Amounts	_	erivative Assets Liabilities	Offsetting ruments (a)		ish Collateral (Received) Pledged (b)	Net	Amounts
Derivative assets:	 								 				
Commodity contracts	\$ 4,486	\$ (3,947)	\$	(49)	\$	490	\$	858	\$ (667)	\$	(11)	\$	180
Interest rate swaps	39	(39)		_		_		72	(72)		_		_
Total derivative assets	 4,525	(3,986)		(49)		490		930	 (739)		(11)		180
Derivative liabilities:													
Commodity contracts	(5,448)	3,947		681		(820)		(933)	667		138		(128)
Interest rate swaps	(280)	39		_		(241)		(404)	72		_		(332)
Total derivative liabilities	(5,728)	3,986		681		(1,061)		(1,337)	739		138		(460)
Net amounts	\$ (1,203)	\$ 	\$	632	\$	(571)	\$	(407)	\$ 	\$	127	\$	(280)

⁽a) Amounts presented exclude trade accounts receivable and payable related to settled financial instruments.

⁽b) Represents cash amounts received or pledged pursuant to a master netting arrangement, including fair value-based margin requirements, and to a lesser extent, initial margin requirements.

Derivative Volumes

The following table presents the gross notional amounts of derivative volumes at September 30, 2021 and December 31, 2020:

	Septem	ber 30, 2021	December 31, 2020	
Derivative type		Notional	Volume	Unit of Measure
Natural gas (a)		5,030	5,264	Million MMBtu
Electricity		437,475	438,863	GWh
Financial transmission rights (b)		210,432	217,350	GWh
Coal		32	20	Million U.S. tons
Fuel oil		106	176	Million gallons
Emissions		32	8	Million tons
Renewable energy certificates		31	18	Million certificates
Interest rate swaps – variable/fixed (c)	\$	6,720	\$ 6,720	Million U.S. dollars
Interest rate swaps – fixed/variable (c)	\$	2,120	\$ 2,120	Million U.S. dollars

- (a) Represents gross notional forward sales, purchases and options transactions, locational basis swaps and other natural gas transactions.
- (b) Represents gross forward purchases associated with instruments used to hedge electricity price differences between settlement points within regions.
- (c) Includes notional amounts of interest rate swaps with maturity dates through July 2026.

Credit Risk-Related Contingent Features of Derivatives

Our derivative contracts may contain certain credit risk-related contingent features that could trigger liquidity requirements in the form of cash collateral, letters of credit or some other form of credit enhancement. Certain of these agreements require the posting of collateral if our credit rating is downgraded by one or more credit rating agencies or include cross-default contractual provisions that could result in the settlement of such contracts if there was a failure under other financing arrangements related to payment terms or other covenants.

The following table presents the commodity derivative liabilities subject to credit risk-related contingent features that are not fully collateralized:

	3	2021	2020
Fair value of derivative contract liabilities (a)	\$	(1,706)	\$ (679)
Offsetting fair value under netting arrangements (b)		1,069	262
Cash collateral and letters of credit		52	35
Liquidity exposure	\$	(585)	\$ (382)

- (a) Excludes fair value of contracts that contain contingent features that do not provide specific amounts to be posted if features are triggered, including provisions that generally provide the right to request additional collateral (material adverse change, performance assurance and other clauses).
- (b) Amounts include the offsetting fair value of in-the-money derivative contracts and net accounts receivable under master netting arrangements.

Concentrations of Credit Risk Related to Derivatives

We have concentrations of credit risk with the counterparties to our derivative contracts. At September 30, 2021, total credit risk exposure to all counterparties related to derivative contracts totaled \$4.754 billion (including associated accounts receivable). The net exposure to those counterparties totaled \$603 million at September 30, 2021, after taking into effect netting arrangements, setoff provisions and collateral, with the largest net exposure to a single counterparty totaling \$51 million. At September 30, 2021, the credit risk exposure to the banking and financial sector represented 83% of the total credit risk exposure and 20% of the net exposure.

Exposure to banking and financial sector counterparties is considered to be within an acceptable level of risk tolerance because all of this exposure is with counterparties with investment grade credit ratings. However, this concentration increases the risk that a default by any of these counterparties would have a material effect on our financial condition, results of operations and liquidity. The transactions with these counterparties contain certain provisions that would require the counterparties to post collateral in the event of a material downgrade in their credit rating.

We maintain credit risk policies with regard to our counterparties to minimize overall credit risk. These policies authorize specific risk mitigation tools including, but not limited to, use of standardized master agreements that allow for netting of positive and negative exposures associated with a single counterparty. Credit enhancements such as parent guarantees, letters of credit, surety bonds, liens on assets and margin deposits are also utilized. Prospective material changes in the payment history or financial condition of a counterparty or downgrade of its credit quality result in the reassessment of the credit limit with that counterparty. The process can result in the subsequent reduction of the credit limit or a request for additional financial assurances. An event of default by one or more counterparties could subsequently result in termination-related settlement payments that reduce available liquidity if amounts are owed to the counterparties related to the derivative contracts or delays in receipts of expected settlements if the counterparties owe amounts to

15. RELATED PARTY TRANSACTIONS

In connection with Emergence, we entered into agreements with certain of our affiliates and with parties who received shares of common stock and TRA Rights in exchange for their claims.

Registration Rights Agreement

Pursuant to the Plan of Reorganization, on the Effective Date, we entered into a Registration Rights Agreement (the Registration Rights Agreement) with certain selling stockholders providing for registration of the resale of the Vistra common stock held by such selling stockholders.

In December 2016, we filed a Form S-1 registration statement with the SEC to register for resale the shares of Vistra common stock held by certain significant stockholders pursuant to the Registration Rights Agreement, which was declared effective by the SEC in May 2017. The registration statement was amended in March 2018. Pursuant to the Registration Rights Agreement, in June 2018, we filed a post-effective amendment to the Form S-1 registration statement on Form S-3, which was declared effective by the SEC in July 2018. Among other things, under the terms of the Registration Rights Agreement:

- if we propose to file certain types of registration statements under the Securities Act with respect to an offering of equity securities, we will be required to use our reasonable best efforts to offer the other parties to the Registration Rights Agreement the opportunity to register all or part of their shares on the terms and conditions set forth in the Registration Rights Agreement; and
- the selling stockholders received the right, subject to certain conditions and exceptions, to request that we file registration statements or amend or supplement registration statements, with the SEC for an underwritten offering of all or part of their respective shares of Vistra common stock (a Demand Registration), and the Company is required to cause any such registration statement or amendment or supplement (a) to be filed with the SEC promptly and, in any event, on or before the date that is 45 days, in the case of a registration statement on Form S-1, or 30 days, in the case of a registration statement on Form S-3, after we receive the written request from the relevant selling stockholders to effectuate the Demand Registration (as defined in the Registration Rights Agreement) and (b) to become effective as promptly as reasonably practicable and in any event no later than 120 days after it is initially filed.

All expenses of registration under the Registration Rights Agreement, including the legal fees of one counsel retained by or on behalf of the selling stockholders, will be paid by us.

Tax Receivable Agreement

On the Effective Date, Vistra entered into the TRA with a transfer agent on behalf of certain former first-lien creditors of TCEH. See Note 7 for discussion of the TRA.

16. SEGMENT INFORMATION

The operations of Vistra are aligned into six reportable business segments: (i) Retail, (ii) Texas, (iii) East, (iv) West, (v) Sunset and (vi) Asset Closure. In the third quarter of 2020, Vistra updated its reportable segments to reflect changes in how the Company's Chief Operating Decision Maker (CODM) makes operating decisions, assesses performance and allocates resources. Management believes the revised reportable segments provide enhanced transparency into the Company's long-term sustainable assets and its commitment to managing the retirement of economically and environmentally challenged plants. The following is a summary of the updated segments:

- The Sunset segment represents plants with announced retirement plans that were previously reported in the ERCOT, PJM and MISO segments As we announced significant plant closures in the third quarter of 2020, management believes it is important to have a segment which differentiates between operating plants with defined retirement plans and operating plants without defined retirement plans.
- The East segment represents Vistra's electricity generation operations in the Eastern Interconnection of the U.S. electric grid, other than assets that are now part of the Sunset or Asset Closure segments, respectively, and includes operations in PJM, ISO-NE and NYISO that were previously reported in the PJM and NY/NE segments, respectively.
- The West segment represents Vistra's electricity generation operations in CAISO and was previously reported in the Corporate and Other non-segment. As reflected by the Moss Landing and Oakland ESS projects (see Note 2), the Company expects to expand its operations in the West segment.

Our CODM reviews the results of these segments separately and allocates resources to the respective segments as part of our strategic operations. A measure of assets is not applicable, as segment assets are not regularly reviewed by the CODM for evaluating performance or allocating resources.

The Retail segment is engaged in retail sales of electricity and natural gas to residential, commercial and industrial customers. Substantially all of these activities are conducted by TXU Energy, Ambit, Value Based Brands, Dynegy Energy Services, Homefield Energy, TriEagle Energy, Public Power and U.S. Gas & Electric across 19 states in the U.S.

The Texas and East segments are engaged in electricity generation, wholesale energy sales and purchases, commodity risk management activities, fuel production and fuel logistics management. The Texas segment represents results from the ERCOT market and was referred to as the ERCOT segment prior to the third quarter of 2020. The East segment represents results from the PJM, ISO-NE and NYISO markets. We determined it was appropriate to aggregate results from these markets into one reportable segment, East, given similar economic characteristics.

The West segment represents results from the CAISO market, including our development of battery ESS projects at our Moss Landing and Oakland power plant sites (see Note 2).

The Sunset segment consists of generation plants with announced retirement plans. Separately reporting the Sunset segment differentiates operating plants with announced retirement plans from our other operating plants in the Texas, East and West segments. We have allocated unrealized gains and losses on the commodity risk management activities to the Sunset segment for the generation plants that have announced retirement plans.

The Asset Closure segment is engaged in the decommissioning and reclamation of retired plants and mines (see Note 3). Separately reporting the Asset Closure segment provides management with better information related to the performance and earnings power of Vistra's ongoing operations and facilitates management's focus on minimizing the cost associated with decommissioning and reclamation of retired plants and mines. We have not allocated any unrealized gains or losses on the commodity risk management activities to the Asset Closure segment for the generation plants that were retired in 2018, 2019 and 2020.

Corporate and Other represents the remaining non-segment operations consisting primarily of general corporate expenses, interest, taxes and other expenses related to our support functions that provide shared services to our operating segments.

The accounting policies of the business segments are the same as those described in the summary of significant accounting policies in Note 1. Our CODM uses more than one measure to assess segment performance, including segment net income (loss), which is the measure most comparable to consolidated net income (loss) prepared based on U.S. GAAP. We account for intersegment sales and transfers as if the sales or transfers were to third parties, that is, at market prices. Certain shared services costs are allocated to the segments.

Three months ended	Retail	Texas	East	West	Sunset	Closure	Other (c)	Eliminations	Consolidated

Corporate and

			_				_								_			
Operating revenues (a):																		
September 30, 2021	\$	2,160	\$	843	\$	508	\$	90	\$	(122)	\$	_	\$	_	\$	(488)	\$	2,991
September 30, 2020		2,521		1,541		644		84		299		1		_		(1,538)		3,552
Depreciation and amortization	(b):																	
September 30, 2021	\$	(53)	\$	(179)	\$	(164)	\$	(15)	\$	(40)	\$	_	\$	(17)	\$	_	\$	(468)
September 30, 2020		(67)		(107)		(181)		(5)		(22)		(11)		(17)		_		(410)
Operating income (loss):																		
September 30, 2021	\$	782	\$	(4)	\$	(228)	\$	(19)	\$	(380)	\$	(6)	\$	(26)	\$	_	\$	119
September 30, 2020		110		908		102		25		(370)		(65)		(34)		_		676
Net income (loss):																		
September 30, 2021	\$	779	\$	4	\$	(233)	\$	(18)	\$	(375)	\$	(6)	\$	(141)	\$	_	\$	10
September 30, 2020		109		908		100		29		(368)		(60)		(276)		_		442
Nine Months ended		Retail		Texas		East		West		Sunset		Asset Closure	C	orporate and Other (b)	т	Eliminations	C	onsolidated
Operating revenues (a):		IXCIAII	_	1CAG5	_	Last	_	West		Juliset	_	Jiosure		Other (b)		Similiations		Jisonuateu
1 0 ()	Ф	5 920	¢	1 /50	¢	1 720	¢	171	¢	100	¢		¢		¢	(542)	¢	9 763
September 30, 2021	\$	5,829	\$	1,458	\$	1,738	\$	171	\$	109	\$	_	\$	_	\$	(542)	\$	8,763
September 30, 2021 September 30, 2020		5,829 6,385	\$	1,458 3,245	\$	1,738 1,845	\$	171 211	\$	109 863	\$	 3	\$		\$	(542) (3,633)	\$	8,763 8,919
September 30, 2021 September 30, 2020 Depreciation and amortization	(b):	6,385		3,245		1,845	•	211	•	863	·			— —		()		8,919
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021		6,385	\$	3,245 (462)		1,845 (553)	•	211 (30)	•	863	·	_	\$	(51)		()	\$	8,919 (1,355)
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020	(b):	6,385		3,245		1,845	•	211	•	863	·			— — (51) (48)		()		8,919
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss):	(b): \$	6,385 (160) (229)	\$	3,245 (462) (340)	\$	1,845 (553) (540)	\$	(30) (14)	\$	863 (99) (101)	\$	— (12)	\$	(48)	\$	()	\$	8,919 (1,355) (1,284)
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021	(b):	6,385 (160) (229) 2,689		3,245 (462) (340) (3,726)	\$	1,845 (553) (540) (321)	\$	(30) (14) (71)	•	863 (99) (101) (851)	\$	— (12) (39)	\$	(48)	\$	()		8,919 (1,355) (1,284) (2,401)
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021 September 30, 2021	(b): \$	6,385 (160) (229)	\$	3,245 (462) (340)	\$	1,845 (553) (540)	\$	(30) (14)	\$	863 (99) (101)	\$	— (12)	\$	(48)	\$	()	\$	8,919 (1,355) (1,284)
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021 September 30, 2020 Net income (loss):	(b): \$	6,385 (160) (229) 2,689 440	\$	3,245 (462) (340) (3,726) 1,482	\$	1,845 (553) (540) (321) 150	\$	(30) (14) (71) 42	\$	863 (99) (101) (851) (475)	\$	— (12) (39) (95)	\$	(48) (82) (101)	\$	()	\$	8,919 (1,355) (1,284) (2,401) 1,443
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021 September 30, 2020 Net income (loss): September 30, 2021	(b): \$	6,385 (160) (229) 2,689 440 2,677	\$	3,245 (462) (340) (3,726) 1,482 (3,651)	\$	1,845 (553) (540) (321) 150 (332)	\$	(30) (14) (71) 42 (62)	\$	863 (99) (101) (851) (475) (841)	\$	(12) (39) (95) (20)	\$	(48) (82) (101) 235	\$	()	\$	8,919 (1,355) (1,284) (2,401) 1,443 (1,994)
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021 September 30, 2020 Net income (loss): September 30, 2021 September 30, 2021 September 30, 2021	\$ \$	6,385 (160) (229) 2,689 440 2,677 433	\$	3,245 (462) (340) (3,726) 1,482 (3,651) 1,484	\$ \$	1,845 (553) (540) (321) 150 (332) 119	\$	(30) (14) (71) 42 (62) 49	\$	863 (99) (101) (851) (475) (841) (469)	\$	(12) (39) (95) (20) (89)	\$	(48) (82) (101) 235 (876)	\$	()	\$	8,919 (1,355) (1,284) (2,401) 1,443
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021 September 30, 2020 Net income (loss): September 30, 2021 September 30, 2021 Capital expenditures, including	\$ \$ g nuc	6,385 (160) (229) 2,689 440 2,677 433	\$ \$ and	3,245 (462) (340) (3,726) 1,482 (3,651) 1,484 d excluding	\$ \$ \$ g I	1,845 (553) (540) (321) 150 (332) 119 .TSA pre	\$ \$ \$	(30) (14) (71) 42 (62) 49	\$ \$ and d	863 (99) (101) (851) (475) (841) (469) evelopm	\$ \$ \$ eent	(12) (39) (95) (20) (89)	\$ \$ \$ wth	(48) (82) (101) 235 (876) expenditures:	\$ \$	()	\$ \$	8,919 (1,355) (1,284) (2,401) 1,443 (1,994) 651
September 30, 2021 September 30, 2020 Depreciation and amortization September 30, 2021 September 30, 2020 Operating income (loss): September 30, 2021 September 30, 2020 Net income (loss): September 30, 2021 September 30, 2021 September 30, 2021	\$ \$	6,385 (160) (229) 2,689 440 2,677 433	\$	3,245 (462) (340) (3,726) 1,482 (3,651) 1,484	\$ \$	1,845 (553) (540) (321) 150 (332) 119	\$	(30) (14) (71) 42 (62) 49	\$	863 (99) (101) (851) (475) (841) (469)	\$	(12) (39) (95) (20) (89)	\$	(48) (82) (101) 235 (876)	\$	()	\$	8,919 (1,355) (1,284) (2,401) 1,443 (1,994)

(a) The following unrealized net gains (losses) from mark-to-market valuations of commodity positions are included in operating revenues:

Three months ended	Retail	Texas	East	West	Sunset	Asset Closure	Corporate and Other	Eliminations (1)	Consolidated
September 30, 2021	\$ (383)	\$ (697)	\$ (303)	\$ (46)	\$ (549)	\$ —	\$ —	\$ 1,117	\$ (861)
September 30, 2020	(8)	79	23	5	(133)	_	_	321	\$ 287
Nine Months ended	Retail	Texas	East	West	Sunset	Asset Closure	Corporate and Other	Eliminations (1)	Consolidated
September 30, 2021	\$ (406)	\$ (2,354)	\$ (486)	\$ (135)	\$ (1,009)	\$ —	<u> </u>	\$ 3,244	\$ (1,146)
September 30, 2020	(12)	462	9	4	(172)			127	\$ 418

⁽¹⁾ Amounts offset in fuel, purchased power costs and delivery fees in the Retail segment, with no impact to consolidated results.

⁽b) See Note 1 for information related to an immaterial out-of-period adjustment to correct depreciation expense and accumulated depreciation related to prior periods. Substantially all of the understated depreciation expense for the years ended December 31, 2018, 2019 and 2020 relates to the Texas segment, and the overstated depreciation expense for the six month period ended June 30, 2021 relates entirely to the East segment.

(c) Income tax expense is not reflected in net income of the segments but is reflected entirely in Corporate and Other net income.

17. SUPPLEMENTARY FINANCIAL INFORMATION

Impairment of Long-Lived Assets

In the second quarter of 2021, we recognized an impairment loss of \$38 million related to our Zimmer generation Facility in Ohio as a result of a significant decrease in the estimated useful life of the facilities, reflecting a decrease in the economic forecast of the facility and the inability to secure capacity revenues for the plant in the latest PJM capacity auction held in May 2021. The impairments are reported in our Sunset segment and include a \$33 million write-down of property, plant and equipment and a \$5 million write-down of inventory.

In the third quarter of 2020, we recognized impairment losses of \$173 million related to our Kincaid coal generation facility in Illinois and \$99 million related to our Zimmer coal generation facility in Ohio, each as a result of a significant decrease in the estimated useful life of the facility, reflecting our recently announced plan to retire both facilities by the end of 2027 in response to the final CCR rule (see Notes 3 and 11). The impairment losses are reported in our Sunset segment and include a \$260 million write-down of property, plant and equipment and a \$12 million write-down of inventory.

In the first quarter of 2020, we recognized an impairment loss of \$52 million related to our Joppa/EEI coal generation facility in Illinois as a result of a significant decrease in the estimated useful life of the facility, reflecting a decrease in the economic forecast of the facility and changes to the operating assumption based on lower forecasted wholesale electricity prices. We also recorded a \$32 million impairment to a capacity contract which was linked in part to the Joppa/EEI facility and therefore determined to have a significant decrease in estimated useful life. The impairments are reported in our Sunset segment and include a \$45 million write-down of property, plant and equipment, a \$32 million write-down of intangible assets and a \$7 million write-down of inventory.

In determining the fair value of the impaired assets, we equally weighted a market approach based on transactions of similar assets and an income approach discounting our projected cash flows through the respective plant retirement dates.

Interest Expense and Related Charges

	Th	ree Months En	ded Sej	ptember 30,	Nine Months Ended September 30,				
		2021		2020		2021		2020	
Interest paid/accrued	\$	124	\$	113	\$	354	\$	362	
Unrealized mark-to-market net (gains) losses on interest rate swaps		(13)		(11)		(92)		181	
Amortization of debt issuance costs, discounts and premiums		9		5		23		12	
Debt extinguishment (gain) loss				(6)		1		(17)	
Capitalized interest		(4)		(5)		(22)		(14)	
Other		8		5		24		17	
Total interest expense and related charges	\$	124	\$	101	\$	288	\$	541	

The weighted average interest rate applicable to the Vistra Operations Credit Facilities, taking into account the interest rate swaps discussed in Note 10, was 3.89% and 3.88% at September 30, 2021 and 2020.

Other Income and Deductions

	Three Montl	ıs En	ded Sej	ptember 30,		Nine Months End	ded September 30,		
	2021		2020			2021		2020	
Other income:						_			
Insurance settlement (a)	\$	9	\$	1	\$	74	\$	6	
Gain on settlement of rail transportation disputes (b)		—		_		15		_	
Sale of land (c)		1		6		2		6	
Interest income		—		_		_		1	
All other		6		1		17		6	
Total other income	\$	16	\$	8	\$	108	\$	19	
Other deductions:									
Loss on disposal of investment in NELP (d)	\$	_	\$	_	\$	_	\$	29	
All other		5		_		13		6	
Total other deductions	\$	5	\$	_	\$	13	\$	35	

- (a) For the three months ended September 30, 2021, \$5 million reported in the Sunset segment and \$4 million reported in the Texas segment. For the three months ended September 30, 2020, reported in the Texas segment. For the nine months ended September 30, 2021, \$67 million reported in the Texas segment, \$5 million reported in the Sunset segment and \$2 million reported in the Corporate and Other non-segment. For the nine months ended September 30, 2020, \$3 million reported in the Corporate and Other non-segment and \$3 million reported in the Texas segment.
- (b) Reported in the Asset Closure segment.
- (c) For the three and nine months ended September 30, 2021, reported in the Asset Closure segment. For the three and nine months ended September 30, 2020, reported in the Texas segment.
- (d) Reported in the East segment.

Restricted Cash

		Septembe	er 30, 202	1		20		
	Current Assets			rent Assets	Curr	ent Assets	Noncurrent Assets	
Amounts related to remediation escrow accounts	\$	22	\$	14	\$	19	\$	19
Total restricted cash	\$	22	\$	14	\$	19	\$	19

Trade Accounts Receivable

	Sej	ptember 30, 2021	December 31, 2020
Wholesale and retail trade accounts receivable	\$	1,588	\$ 1,324
Allowance for uncollectible accounts		(59)	(45)
Trade accounts receivable — net	\$	1,529	\$ 1,279

Gross trade accounts receivable at September 30, 2021 and December 31, 2020 included unbilled retail revenues of \$460 million and \$468 million, respectively.

Allowance for Uncollectible Accounts Receivable

	Nine Months I	Nine Months Ended September 30,						
	2021		2020					
Allowance for uncollectible accounts receivable at beginning of period	\$ 4:	5 \$	42					
Increase for bad debt expense	80	j	85					
Decrease for account write-offs	(72	.)	(69)					
Allowance for uncollectible accounts receivable at end of period	\$ 59	\$	58					

Inventories by Major Category

		September 30, 2021	December 31, 2020
Materials and supplies	5	260	\$ 260
Fuel stock		173	236
Natural gas in storage	_	38	 19
Total inventories	3	471	\$ 515

Investments

	September 30, 2021				
Nuclear plant decommissioning trust	\$	1,827	\$	1,674	
Assets related to employee benefit plans		41		41	
Land		44		44	
Miscellaneous other		3			
Total investments	\$	1,915	\$	1,759	

Nuclear Decommissioning Trust

Investments in a trust that will be used to fund the costs to decommission the Comanche Peak nuclear generation plant are carried at fair value. Decommissioning costs are being recovered from Oncor Electric Delivery Company LLC's (Oncor) customers as a delivery fee surcharge over the life of the plant and deposited by Vistra (and prior to the Effective Date, a subsidiary of TCEH) in the trust fund. Income and expense, including gains and losses associated with the trust fund assets and the decommissioning liability are offset by a corresponding change in a regulatory asset/liability (currently a regulatory liability reported in other noncurrent liabilities and deferred credits) that will ultimately be settled through changes in Oncor's delivery fees rates. If funds recovered from Oncor's customers held in the trust fund are determined to be inadequate to decommission the Comanche Peak nuclear generation plant, Oncor would be required to collect all additional amounts from its customers, with no obligation from Vistra, provided that Vistra complied with PUCT rules and regulations regarding decommissioning trusts. A summary of the fair market value of investments in the fund follows:

	Septe 2						
Debt securities (a)	\$	654	\$	618			
Equity securities (b)		1,173		1,056			
Total	\$	1,827	\$	1,674			

- (a) The investment objective for debt securities is to invest in a diversified tax efficient portfolio with an overall portfolio rating of AA or above as graded by S&P or Aa2 by Moody's. The debt securities are heavily weighted with government and municipal bonds and investment grade corporate bonds. The debt securities had an average coupon rate 2.60% and 2.91% at September 30, 2021 and December 31, 2020, respectively, and an average maturity of nine years and ten years at September 30, 2021 and December 31, 2020, respectively.
- (b) The investment objective for equity securities is to invest tax efficiently and to match the performance of the S&P 500 Index for U.S. equity investments and the MSCI EAFE Index for non-U.S. equity investments.

Debt securities held at September 30, 2021 mature as follows: \$246 million in one to five years, \$194 million in five to 10 years and \$214 million after 10 years.

The following table summarizes proceeds from sales of securities and investments in new securities.

	Three Months En	eptember 30,	Nine Months Ended September 30,				
	 2021			2021			2020
Proceeds from sales of securities	\$ 99	\$	67	\$	366	\$	291
Investments in securities	\$ (105)	\$	(73)	\$	(382)	\$	(307)

Property, Plant and Equipment

	September 30, 2021	December 31, 2020
Power generation and structures	\$ 16,079	\$ 15,222
Land	615	617
Office and other equipment	177	173
Total	 16,871	16,012
Less accumulated depreciation	(4,556)	(3,614)
Net of accumulated depreciation	12,315	12,398
Finance lease right-of-use assets (net of accumulated depreciation)	175	182
Nuclear fuel (net of accumulated amortization of \$153 million and \$91 million)	191	207
Construction work in progress	419	712
Property, plant and equipment — net	\$ 13,100	\$ 13,499

Depreciation expenses totaled \$398 million and \$328 million for the three months ended September 30, 2021 and 2020, respectively, and \$1.147 billion and \$1.012 billion for nine months ended September 30, 2021 and 2020, respectively. See Note 1 for information related to an out-of-period adjustment due to an immaterial correction of prior periods.

Asset Retirement and Mining Reclamation Obligations (ARO)

These liabilities primarily relate to nuclear generation plant decommissioning, land reclamation related to lignite mining, remediation or closure of coal ash basins, and generation plant disposal costs. There is no earnings impact with respect to changes in the nuclear plant decommissioning liability, as all costs are recoverable through the regulatory process as part of delivery fees charged by Oncor. We have also identified conditional AROs for asbestos removal and disposal, which are specific to certain generation assets. As of September 30, 2021 and December 31, 2020, removal liabilities totaled \$6 million and zero, respectively.

At September 30, 2021, the carrying value of our ARO related to our nuclear generation plant decommissioning totaled \$1.623 billion, which is lower than the fair value of the assets contained in the nuclear decommissioning trust. Since the costs to ultimately decommission that plant are recoverable through the regulatory rate making process as part of Oncor's delivery fees, a corresponding regulatory liability has been recorded to our condensed consolidated balance sheet of \$204 million in other noncurrent liabilities and deferred credits.

The following table summarizes the changes to these obligations, reported as AROs (current and noncurrent liabilities) in our condensed consolidated balance sheets, for the nine months ended September 30, 2021 and 2020.

	Nin	Nine Months Ended September 30, 2021								Nine Months Ended September 30, 2020						
	Nuclear Plant Decom- missioning		ing Land lamation	Coal A			Total		Nuclear Plant Decom- missioning	Mining Land Reclamation		Coal Ash and Other		Total		
Liability at beginning of period	\$ 1,585	\$	359	\$	492	\$	2,436	9	1,320	\$ 410)	\$ 508	\$	2,238		
Additions:																
Accretion	38		12		15		65		34	15	5	18		67		
Adjustment for change in estimates	_		(16)		10		(6)		219	(10))	36		245		
Reductions:																
Payments	_		(48)		(11)		(59)			(48	3)	(34)		(82)		
Liability at end of period	1,623		307		506		2,436		1,573	367	7	528		2,468		
Less amounts due currently	_		(88)		(22)		(110)			(98	3)	(17)		(115)		
Noncurrent liability at end of period	\$ 1,623	\$	219	\$	484	\$	2,326		1,573	269)	511		2,353		

Other Noncurrent Liabilities and Deferred Credits

The balance of other noncurrent liabilities and deferred credits consists of the following:

	September 30, 2021	December 31, 2020
Retirement and other employee benefits	\$ 296	\$ 312
Winter Storm Uri impact (a)	670	_
Identifiable intangible liabilities (Note 5)	150	289
Regulatory liability	204	89
Finance lease liabilities	234	206
Uncertain tax positions, including accrued interest	13	12
Liability for third-party remediation	21	31
Accrued severance costs	40	54
Other accrued expenses	186	138
Total other noncurrent liabilities and deferred credits	\$ 1,814	\$ 1,131

⁽a) Includes the allocation of ERCOT default uplift charges, accrual of Koch earn-out disputed amounts (see Note 11) and future bill credits related to large commercial and industrial customers that curtailed during Winter Storm Uri.

Fair Value of Debt

			Septembe	er 30, 2	2021	Decemb	2020	
Long-term debt (see Note 10):	Fair Value Hierarchy	Carryin	g Amount		Fair Value	Carrying Amount		Fair Value
Long-term debt under the Vistra Operations Credit Facilities	Level 2	\$	2,556	\$	2,531	\$ 2,579	\$	2,565
Vistra Operations Senior Notes	Level 2		7,877		8,241	6,634		7,204
Forward Capacity Agreements	Level 3		338		338	45		45
Equipment Financing Agreements	Level 3		97		97	59		59
Building Financing	Level 2		4		4	10		10
Other debt	Level 3		3		3	3		3

We determine fair value in accordance with accounting standards as discussed in Note 13. We obtain security pricing from an independent party who uses broker quotes and third-party pricing services to determine fair values. Where relevant, these prices are validated through subscription services, such as Bloomberg.

Supplemental Cash Flow Information

The following table reconciles cash, cash equivalents and restricted cash reported in our condensed consolidated statements of cash flows to the amounts reported in our condensed consolidated balance sheets at September 30, 2021 and December 31, 2020:

	September 30, 2021	December 31, 2020
Cash and cash equivalents	\$ 351	\$ 406
Restricted cash included in current assets	22	19
Restricted cash included in noncurrent assets	 14	19
Total cash, cash equivalents and restricted cash	\$ 387	\$ 444

The following table summarizes our supplemental cash flow information for the nine months ended September 30, 2021 and 2020:

		Nine Months End	led Se	ptember 30,
		2021		2020
Cash payments related to:	_			
Interest paid	\$	425	\$	468
Capitalized interest		(22)		(14)
Interest paid (net of capitalized interest)	\$	403	\$	454
Income taxes paid (refunds received) (a)	\$	44	\$	(11)
Noncash investing and financing activities:				
Disposition of investment in NELP	\$	_	\$	123
Acquisition of investment in NJEA	\$	_	\$	90

⁽a) For the nine months ended September 30, 2021 and 2020, we paid state income taxes of \$46 million and \$32 million, respectively, received federal tax refunds of zero and \$37 million, respectively, and received state tax refunds of \$2 million and \$6 million, respectively.

Item 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The discussion below, as well as other portions of this quarterly report on Form 10-Q, contain forward-looking statements within the meaning of Section 27A of the Securities Act, Section 21E of the Exchange Act and the Private Securities Litigation Reform Act of 1995. In addition, management may make forward-looking statements orally or in other writing, including, but not limited to, in press releases, quarterly earnings calls, executive presentations, in the annual report to stockholders and in other filings with the SEC. Readers can usually identify these forward-looking statements by the use of such words as "may," "will," "should," "likely," "plans," "projects," "expects," "anticipates," "believes" or similar words. These statements involve a number of risks and uncertainties. Actual results could materially differ from those anticipated by such forward-looking statements. For more discussion about risk factors that could cause or contribute to such differences, see Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" and Part I, Item 1A "Risk Factors" in the Company's 2020 Form 10-K and any updates contained herein. Forward-looking statements reflect the information only as of the date on which they are made. The Company does not undertake any obligation to update any forward-looking statements to reflect future events, developments, or other information. If Vistra does update one or more forward-looking statements, no inference should be drawn that additional updates will be made regarding that statement or any other forward-looking statements. This discussion is intended to clarify and focus on our results of operations, certain changes in our financial position, liquidity, capital structure and business developments for the periods covered by the consolidated financial statements included under Part I, Item 1 of this quarterly report on Form 10-Q for the three and nine months ended September 30, 2021. This discussion should be read in conjunction with

The following discussion and analysis of our financial condition and results of operations for the three and nine months ended September 30, 2021 and 2020 should be read in conjunction with our condensed consolidated financial statements and the notes to those statements.

All dollar amounts in the tables in the following discussion and analysis are stated in millions of U.S. dollars unless otherwise indicated.

Critical Accounting Policies and Estimates

The Company's discussion and analysis of its financial position and results of operations is based upon its consolidated financial statements. The preparation of these consolidated financial statements requires estimation and judgment that affect the reported amounts of revenue, expenses, assets and liabilities. The Company bases its estimates on historical experience and on various other factors that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the accounting for assets and liabilities that are not readily apparent from other sources. If the estimates differ materially from actual results, the impact on the consolidated financial statements may be material. The Company's critical accounting policies are disclosed in our 2020 Form 10-K.

Business

Vistra is a holding company operating an integrated retail and electric power generation business primarily in markets throughout the U.S. Through our subsidiaries, we are engaged in competitive energy market activities including power generation, wholesale energy sales and purchases, commodity risk management and retail sales of electricity and natural gas to end users.

Operating Segments

Vistra has six reportable segments: (i) Retail, (ii) Texas, (iii) East, (iv) West, (v) Sunset and (vi) Asset Closure. See Note 16 to the Financial Statements for further information concerning the updates to our reportable business segments.

Significant Activities and Events and Items Influencing Future Performance

Winter Storm Uri

In February 2021, the U.S. experienced an unprecedented Winter Storm Uri, bringing extreme cold temperatures to the central U.S., including Texas. On February 12, 2021, the Governor of Texas declared a state of disaster for all 254 counties in the State in response to the then-forecasted weather conditions. The declaration certified that severe winter weather posed an imminent threat due to prolonged freezing temperatures, heavy snow, and freezing rain statewide. On February 14, 2021, President Biden issued a federal emergency declaration for all 254 Texas counties.

As part of its annual winter season preparations, our power plant teams executed a significant winter preparedness strategy, which included installing windbreaks and large radiant heaters to supplement existing freeze protection and insulation and performing preventative maintenance on freeze protection equipment such as the insulation and automatic circuitry designed to keep pipes at the power plants from freezing. In addition, in anticipation of Winter Storm Uri we took additional steps to prepare, including procuring additional demineralized water supply trailers to ensure sufficient water availability to run for extended periods and verifying that freeze protection circuits were operational.

This severe weather resulted in surging demand for power, gas supply shortages, operational challenges for generators, and a significant load shed event (*i.e.*, involuntary outages to customers across the system for varying periods of time) that was ordered by ERCOT beginning on February 15, 2021 and continuing through February 18, 2021. Despite these challenges, we estimate that our fleet generated approximately 25 to 30% of the power on the grid during the height of the outages, as compared to our approximately 18% market share.

The weather event resulted in a \$2.9 billion negative impact on the Company's pre-tax earnings in the nine months ended September 30, 2021 (see Note 1 to the Financial Statements). The primary drivers of the loss were the need to procure power in ERCOT at market prices at or near the price cap due to lower output from our natural gas-fueled power plants driven by natural gas deliverability issues and our coal-fueled power plants driven by coal fuel handling challenges, high fuel costs, and high retail load costs.

The final amount of the storm impact is subject to legislative actions that may be taken, such as legislation passed in the Texas Legislature's 87th Session. Securitization bills SB 1580 and HB 1520 may impact the total amount of balances owed by electric cooperatives to the market. The PUCT is required to issue financing orders related to those bills that authorizes financing associated with this legislation to defaulting market participants. The potential impact of this legislation is subject to uncertainty as the final details associated with the securitization bills will be determined through the potential approval of the financing orders.

In September 2021, the PUCT approved a settlement agreement among ERCOT, PUCT staff and certain ERCOT market participants who are parties to the PUCT proceeding in which ERCOT has applied for an order to finance, administer and distribute to eligible ERCOT market participants the securitization provided for under Texas House Bill 4492 (HB 4492). HB 4492 authorizes ERCOT to securitize up to \$2.1 billion of certain costs allocated by ERCOT to load-serving entities (LSEs) during Winter Storm Uri. HB 4492, and final terms related thereto, are subject to the final financing order issued in October 2021, together with ERCOT obtaining sufficient financing related thereto. Though the final allocations will be determined following the completion of an administrative process, including final determination of which LSEs will participate in or opt out of the program, we expect to receive approximately \$500 million of proceeds.

In addition, the final amount of the storm impact continues to be subject to the outcome of potential litigation arising from this event (including any litigation that we may pursue or be a party to); or any corrective action taken by the State of Texas, ERCOT, the RCT, or the PUCT to resettle pricing across any portion of the supply chain that is currently being considered or may be considered by any such parties. There have already been several announced efforts by the state and federal governments and regulatory agencies to investigate and determine the causes of this event and its impact on consumers. We have received a civil investigative demand from the Attorney General of Texas as well as requests for information from ERCOT related to this event and may receive additional inquiries. We are cooperating with these entities and are working to respond to these requests. Those efforts may result in changes in regulations that impact our industry including but not limited to additional requirements for winterization of various facets of the electricity supply chain including generation, transmission, and fuel supply; improvements in coordination among the various participants in the electricity and natural gas supply chains during any future event; potential revisions to the way in which the ERCOT market compensates and incentivizes the continued operation of assets that only run during times of scarcity; and potential changes to the types of plans permitted to be marketed to residential customers. We are continuing to monitor this situation as it develops. The full impact of litigation or any legislative or regulatory changes or actions (including enforcement actions that may be brought against various market participants) that may occur as a result of the event could have a material impact on our business, financial condition, results of operations, or cash flows, but cannot be estimated at this time. See Note 11 to the Financial Statements for further discussion of these matters.

The fundamentals of the Company remain strong. As described under *Available Liquidity*, the Company has total available liquidity of \$2.071 billion as of September 30, 2021, consisting of cash on hand and available capacity under our Revolving Credit Facility. In addition, the maturities of our long-term debt are relatively modest until 2023. If the Company experienced a significant reduction in revenues or increases in costs or collateral requirements, such as a result of Winter Storm Uri, the Company believes it would have additional alternatives to maintain access to liquidity, including drawing upon available liquidity, accessing additional sources of capital or reducing capital expenditures, planned voluntary debt repayments or operating costs.

In response to the storm, Vistra committed to donate \$5 million to assist Texas communities and individuals meet their most pressing needs, including support for food banks and food pantries, critical needs, bill payment assistance, and more. Vistra also assured residential customers across its retail brands that they will not see any near-term impact on their rates due to the winter weather event, though bills may increase due to high usage during the cold weather period in February.

In response to the storm, Vistra has taken or intends to take various actions to improve its risk profile for future weather-driven volatility events, including investing in improvements to further harden its coal fuel handling capabilities and to further weatherize its ERCOT fleet for even colder temperatures and longer durations; carrying more backup generation into the peak seasons after accounting for weatherization investments and ERCOT market improvements implemented going forward; contracting for incremental gas storage to support its gas fleet; adding additional dual fuel capabilities at its gas steam units and increasing fuel oil inventory at its existing dual fuel sites; participating in processes with the PUCT and ERCOT for registration of gas infrastructure as critical resources with the transmission and distribution utilities and for enhanced winterization of both gas and power assets in the state; and engaging in processes to evaluate potential market reforms.

Investments in Clean Energy and CO2 Reductions

In September 2021, we announced the planned development, at a cost of approximately \$550 million, of up to 300 MW of solar photovoltaic power generation facilities and up to 150 MW of battery ESS at retired or to-be-retired plant sites in Illinois, based on the passage of Illinois Senate Bill 2408, the Energy Transition Act. In September 2020, we announced the planned development, at a cost of approximately \$850 million, of up to 668 MW of solar photovoltaic power generation facilities and 260 MW of battery ESS in Texas. We will only invest in these growth projects if we are confident in the expected returns. See Note 2 to the Financial Statements for a summary of our solar and battery energy storage projects.

In September 2020 and December 2020, we announced our intention to retire (a) all of our remaining coal generation facilities in Illinois and Ohio, (b) one coal generation facility in Texas and (c) two natural gas facilities in Illinois and Texas no later than year-end 2027 due to economic challenges, including incremental expenditures that would be required to comply with the CCR rule and ELG rule (see Note 11 to the Financial Statements), and in furtherance of our efforts to significantly reduce our carbon footprint. In April 2021, we announced we would retire the Joppa generation facilities by September 1, 2022, and in July 2021, we announced we would retire the Zimmer coal generation facility by May 31, 2022. See Note 3 to the Financial Statements for a summary of these planned generation retirements.

Moss Landing Phase I Outage

On September 4, 2021, Moss Landing Phase I experienced an incident impacting a portion of the battery ESS. An initial review has found that only a small, single digit-percentage of batteries at the facility were impacted. The facility will be offline as the company continues to safely advance its root cause analysis and perform the work necessary to return the facility to service. We do not currently have an estimated return to service date for the facility. Moss Landing Phase II was not affected and remains operational. We do not expect the incident to have a material impact on our results of operations.

Mining Reclamation Award

On October 14, 2021, the Office of Surface Mining Reclamation and Enforcement (OSM) announced Luminant as a recipient of its 2021 Excellence in Surface Coal Mining Reclamation Award for the work done to reclaim and restore previously mined land at its Monticello-Winfield Mine. The award recognizes companies that achieve the most exemplary coal mine reclamation in the nation. Luminant has a long history of environmental stewardship, reclaiming land long before being required under federal or state law.

COVID-19 Pandemic

With the global outbreak of the novel coronavirus (COVID-19) and the declaration of a pandemic by the World Health Organization on March 11, 2020, the U.S. government has deemed electricity generation, transmission and distribution as "critical infrastructure" providing essential services during this global emergency. As a provider of critical infrastructure, Vistra has an obligation to provide critically needed power to homes, businesses, hospitals and other customers. Vistra remains focused on protecting the health and well-being of its employees and the communities in which it operates while assuring the continuity of its business operations.

We have updated and implemented our company-wide pandemic plan to address specific aspects of the COVID-19 pandemic to guide our emergency response, business continuity, and the precautionary measures we are taking on behalf of employees and the public. We will continue to monitor developments affecting both our workforce and our customers, and we have taken, and will continue to take, health and safety measures that we determine are necessary in order to mitigate the impacts. To date, as a result of these business continuity measures, the Company has not experienced material disruptions in our operations due to COVID-19.

See Note 6 to the Financial Statements for a summary of certain tax-related impacts of the CARES Act to the Company.

The COVID-19 pandemic has presented potential new risks to the Company's business. Although there have been logistical and other challenges to date, there has been no material adverse impact on the Company's nine months ended September 30, 2021 results of operations. The situation surrounding COVID-19 remains fluid and the potential for a material impact on the Company's results of operations, financial condition and liquidity increases the longer the virus impacts the level of economic activity in the U.S. and globally. As a result, COVID-19 may have a range of impacts on the Company's operations, the full extent and scope of which are currently unknown. See Part I, Item 1A Risk Factors — The outbreak of COVID-19, or the future outbreak of any other highly infectious or contagious diseases, could have a material and adverse effect on our business, financial condition, and results of operations in our 2020 Form 10-K.

Dividend Program

In November 2018, we announced that the Board had adopted a dividend program, which we initiated in the first quarter of 2019. See Note 12 to the Financial Statements for more information about our dividend program.

Series A Preferred Stock Offering

On October 15, 2021, we issued of 1,000,000 shares of Series A Preferred Stock in a private offering (Offering). The net proceeds of the Offering were approximately \$990 million, after deducting underwriting commissions and offering expenses. We intend to use the net proceeds from the Offering to repurchase shares of our outstanding common stock under the Share Repurchase Program (discussed below). See Note 12 to the Financial Statements for more information concerning the Series A Preferred Stock.

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Share Repurchase Program

In October 2021, we announced that the Board had authorized a new share repurchase program (Share Repurchase Program) under which up to \$2.0 billion of our outstanding common stock may be repurchased. The Share Repurchase Program became effective on October 11, 2012. The Share Repurchase Program supersedes the \$1.5 billion share repurchase program previously announced in September 2020 (Prior Share Repurchase Program). We intend to use the net proceeds from the Preferred Stock Offering to repurchase shares of our outstanding common stock. We expect to complete repurchases under the Share Repurchase Program by the end of 2022. See Note 12 to the Financial Statements for more information concerning the Share Repurchase Program and the Prior Share Repurchase Program, including shares repurchased.

Debt Activity

We have stated our objective to reduce our consolidated net leverage. We also intend to continue to simplify and optimize our capital structure, maintain adequate liquidity and pursue opportunities to refinance our long-term debt to extend maturities and/or reduce ongoing interest expense. While the financial impacts resulting from Winter Storm Uri caused an increase in our consolidated net leverage, the Company remains committed to a strong balance sheet. See Note 10 to the Financial Statements for details of our long-term debt activity and Note 9 to the Financial Statements for details of our accounts receivable financing.

Power Price, Natural Gas Price and Market Heat Rate Exposure

Estimated hedging levels for generation volumes in our Texas, East, West and Sunset segments at September 30, 2021 were as follows:

	2021	2022
Nuclear/Renewable/Coal Generation:		
Texas	97 %	85 %
Sunset	100 %	93 %
Gas Generation:		
Texas	89 %	53 %
East	98 %	89 %
West	100 %	92 %

The following sensitivity table provides approximate estimates of the potential impact of movements in power prices and spark spreads (the difference between the power revenue and fuel expense of natural gas-fired generation as calculated using an assumed heat rate of 7.2 MMBtu/MWh) on realized pre-tax earnings (in millions) taking into account the hedge positions noted above for the periods presented. The residual gas position is calculated based on two steps: first, calculating the difference between actual heat rates of our natural gas generation units and the assumed 7.2 heat rate used to calculate the sensitivity to spark spreads; and second, calculating the residual natural gas exposure that is not already included in the gas generation spark spread sensitivity shown in the table below. The estimates related to price sensitivity are based on our expected generation, related hedges and forward prices as of September 30, 2021.

		Balance 2021	2022
Texas:	'		
Nuclear/Renewable/Coal Generation: \$2.50/MWh increase in power price	\$	1	\$ 18
Nuclear/Renewable/Coal Generation: \$2.50/MWh decrease in power price	\$	(1)	\$ (18)
Gas Generation: \$1.00/MWh increase in spark spread	\$	1	\$ 20
Gas Generation: \$1.00/MWh decrease in spark spread	\$	(1)	\$ (18)
Residual Natural Gas Position: \$0.25/MMBtu increase in natural gas price	\$	1	\$ (22)
Residual Natural Gas Position: \$0.25/MMBtu decrease in natural gas price	\$	(1)	\$ 15
East:			
Gas Generation: \$1.00/MWh increase in spark spread	\$	_	\$ 6
Gas Generation: \$1.00/MWh decrease in spark spread	\$	_	\$ (4)
Residual Natural Gas Position: \$0.25/MMBtu increase in natural gas price	\$	_	\$ (3)
Residual Natural Gas Position: \$0.25/MMBtu decrease in natural gas price	\$	_	\$ 3
West:			
Gas Generation: \$1.00/MWh increase in spark spread	\$	_	\$ 1
Gas Generation: \$1.00/MWh decrease in spark spread	\$	_	\$ _
Sunset:			
Coal Generation: \$2.50/MWh increase in power price	\$	_	\$ 7
Coal Generation: \$2.50/MWh decrease in power price	\$	_	\$ (5)

PJM Auction Results

In June 2021, Vistra reported its results from PJM's Reliability Pricing Model (RPM) auction results for planning year 2022-2023, and the table below lists clearing price per MW-day and our cleared capacity volumes by zone:

	Clearing Price per MW-day		East Segment MW Cleared	Sunset Segment MW Cleared	Total MW Cleared
RTO zone	\$	50.00	2,967		2,967
ComEd zone	\$	68.96	1,255	649	1,904
DEOK zone	\$	71.69	99	870	969
MAAC zone	\$	95.79	548	_	548
EMAAC zone	\$	97.86	831	_	831
ATSI zone	\$	50.00	_	_	_
Total	\$	66.90	5,700	1,519	7,219

Our capacity sales in PJM, net of purchases, for planning year 2022-2023, are as follows:

	East Segment	Sı	unset Segment	Total
Total capacity sold, net (MW)	5,7	00	1,519	7,219
Average price per MW-day	\$ 68	.54 \$	70.52	\$ 68.95

RESULTS OF OPERATIONS

Consolidated Financial Results — Three and Nine Months Ended September 30, 2021 Compared to Three and Nine Months Ended September 30, 2020

		Three Mor Septen				Favorable (Unfavorable)		Nine Mon Septen		Favorable (Unfavorable)	
		2021		2020		\$ Change		2021		2020	\$ Change
Operating revenues	\$	2,991	\$	3,552	\$	(561)	\$	8,763	\$	8,919	\$ (156)
Fuel, purchased power costs and delivery fees		(1,763)		(1,469)		(294)		(7,827)		(3,832)	(3,995)
Operating costs		(372)		(457)		85		(1,173)		(1,249)	76
Depreciation and amortization		(468)		(410)		(58)		(1,355)		(1,284)	(71)
Selling, general and administrative expenses		(269)		(268)		(1)		(771)		(755)	(16)
Impairment of long-lived assets		_		(272)		272		(38)		(356)	318
Operating income (loss)		119		676		(557)		(2,401)		1,443	(3,844)
Other income		16		8		8		108		19	89
Other deductions		(5)		_		(5)		(13)		(35)	22
Interest expense and related charges		(124)		(101)		(23)		(288)		(541)	253
Impacts of Tax Receivable Agreement		35		58		(23)		31		44	(13)
Equity in earnings of unconsolidated investmen	t	_				<u> </u>		_		4	(4)
Income (loss) before income taxes		41		641		(600)		(2,563)		934	(3,497)
Income tax (expense) benefit	(31)			(199)		168		569		(283)	852
Net income (loss)	\$ 10 \$ 442 \$		\$	(432)	(432) \$ (1,994)		\$ 651		\$ (2,645)		

	Three Months Ended September 30, 2021														
	Retail		Texas		East	West			Sunset	Asset Closure			iminations / orporate and Other	Vistra Consolidated	
Operating revenues	\$ 2,1	60	\$ 843	\$	508	\$	90	\$	(122)	\$		\$	(488)	\$	2,991
Fuel, purchased power costs and delivery fees	(1,0	95)	(482)		(496)		(78)		(100)		_		488		(1,763)
Operating costs	(38)	(163)		(57)		(9)		(104)		(1)		_		(372)
Depreciation and amortization	(53)	(179)		(164)		(15)		(40)		_		(17)		(468)
Selling, general and administrative expenses	(1	92)	(23)		(19)		(7)		(14)		(5)		(9)		(269)
Operating income (loss)	7	82	(4)		(228)		(19)		(380)		(6)		(26)		119
Other income		1	7		_		_		7		1		_		16
Other deductions		_	(2)		_		_		(1)		_		(2)		(5)
Interest expense and related charges		(2)	3		(5)		1		(1)		(1)		(119)		(124)
Impacts of Tax Receivable Agreement		_	_		_		_		_		_		35		35
Income (loss) before income taxes	7	81	4		(233)		(18)		(375)		(6)		(112)		41
Income tax expense		(2)	_		_		_		_		_		(29)		(31)
Net income (loss)	\$ 7	79	\$ 4	\$	(233)	\$	(18)	\$	(375)	\$	(6)	\$	(141)	\$	10

Three Months Ended September 30, 2020 Eliminations / Corporate and Other Vistra Asset Closure Retail Consolidated Operating revenues 2,521 \$ 1,541 \$ 644 \$ 84 \$ 299 \$ 1 (1,538)3,552 Fuel, purchased power costs and (295)(38)1,538 delivery fees (2,119)(328)(227)(1,469)Operating costs (35)(180)(54)(8)(133)(47)(457)Depreciation and amortization (67)(107)(181)(5)(22)(410)(11)(17)Selling, general and (190)(18)(12)(8) (15)(8) (17)(268)administrative expenses Impairment of long-lived assets (272)(272)110 908 25 Operating income (loss) 102 (370)(65)(34)676 Other income 1 1 1 5 8 3 Other deductions (3)Interest expense and related 2 3 (101)(101)charges (2)(2) (1)Impacts of Tax Receivable 58 58 Agreement Income (loss) before income 109 908 100 29 (368)(60)(77)641 taxes (199)Income tax expense (199)Net income (loss) 29 109 908 100 \$ (368)(60)(276)442

In the three months ended September 30, 2021, our operating segments delivered strong operating performance with a disciplined focus on cost management while generating and selling essential electricity in a safe and reliable manner during a period of mild weather. Our performance reflected the stability of our integrated model, including a diversified generation fleet, retail and commercial and hedging activities in support of our integrated business, to produce results in line with management's expectations.

Consolidated results decreased \$557 million to operating income of \$119 million in the three months ended September 30, 2021 compared to the three months ended September 30, 2020. The change in results is driven by \$589 million in pre-tax unrealized losses on commodity hedging transactions in 2021 compared to \$321 million in pre-tax unrealized gains on commodity heading transactions in 2020, partially offset by a \$272 million impairment of long-lived assets related to our Kincaid and Zimmer generation facilities in 2020 (see Note 17 to the Financial Statements). Power, natural gas and coal forward market curves moved up during the three months ended September 30, 2021, driving these net pre-tax unrealized losses on commodity hedging transactions.

Depreciation expense for the three months ended September 30, 2021 includes a \$45 million immaterial out-of-period adjustment to correct for the net understatement of depreciation expense related to prior periods. See Note 1 to the Financial Statements.

Interest expense and related charges increased \$23 million to \$124 million in the three months ended September 30, 2021 compared to the three months ended September 30, 2020 driven by \$11 million higher interest paid/accrued and a \$6 million debt extinguishment gain in 2020. See Note 17 to the Financial Statements.

For the three months ended September 30, 2021 and 2020, the Impacts of the Tax Receivable Agreement totaled income of \$35 million and \$58 million, respectively. See Note 7 to the Financial Statements for discussion of the impacts of the Tax Receivable Agreement Obligation.

For the three months ended September 30, 2021, income tax expense totaled \$31 million and the effective tax rate was 75.6%. For the three months ended September 30, 2020, income tax expense totaled \$199 million and the effective tax rate was 31.0%. See Note 6 to the Financial Statements for reconciliation of the effective rates to the U.S. federal statutory rate.

	Nine Months Ended September 30, 2021														
	Retail		Texas		East West				Sunset		Asset Closure		liminations / orporate and Other	(Vistra Consolidated
Operating revenues	\$ 5,829	\$	1,458	\$	1,738	\$	171	\$	109	\$	_	\$	(542)	\$	8,763
Fuel, purchased power costs and delivery fees	(2,345)		(4,133)		(1,269)		(164)		(458)		_		542		(7,827)
Operating costs	(96)		(527)		(181)		(26)		(323)		(19)		(1)		(1,173)
Depreciation and amortization	(160)		(462)		(553)		(30)		(99)		_		(51)		(1,355)
Selling, general and administrative expenses	(539)		(62)		(56)		(22)		(42)		(20)		(30)		(771)
Impairment of long-lived assets	_		_		_		_		(38)		_		_		(38)
Operating income (loss)	2,689		(3,726)		(321)		(71)		(851)		(39)		(82)		(2,401)
Other income	1		72		_		_		11		20		4		108
Other deductions	(4)		(7)		_		_		_		_		(2)		(13)
Interest expense and related charges	(7)		10		(11)		9		(1)		(1)		(287)		(288)
Impacts of Tax Receivable Agreement	_		_		_		_		_		_		31		31
Income (loss) before income taxes	 2,679		(3,651)		(332)		(62)		(841)		(20)		(336)		(2,563)
Income tax (expense) benefit	(2)												571		569
Net income (loss)	\$ 2,677	\$	(3,651)	\$	(332)	\$	(62)	\$	(841)	\$	(20)	\$	235	\$	(1.994)

	Nine Months Ended September 30, 2020															
	Reta	ail	Te	exas		East West Sunset						Asset Closure		minations / rporate and Other	C	Vistra onsolidated
Operating revenues	\$ 6	5,385	\$	3,245	\$	1,845	\$	211	\$	863	\$	3	\$	(3,633)	\$	8,919
Fuel, purchased power costs and delivery fees	(5	5,133)		(805)		(897)		(115)		(515)		_		3,633		(3,832)
Operating costs		(94)		(560)		(192)		(22)		(314)		(66)		(1)		(1,249)
Depreciation and amortization		(229)		(340)		(540)		(14)		(101)		(12)		(48)		(1,284)
Selling, general and administrative expenses		(489)		(58)		(66)		(18)		(52)		(20)		(52)		(755)
Impairment of long-lived assets		_		_		_		_		(356)		_		_		(356)
Operating income (loss)		440		1,482		150		42		(475)		(95)		(101)		1,443
Other income		1		3		1		1		4		8		1		19
Other deductions		_		(7)		(30)		_		4		(2)		_		(35)
Interest expense and related charges		(8)		6		(6)		6		(2)		_		(537)		(541)
Impacts of Tax Receivable Agreement		_		_		_		_		_		_		44		44
Equity in earnings of unconsolidated investment		_				4		_		_		_		_		4
Income (loss) before income taxes		433		1,484		119		49		(469)		(89)		(593)		934
Income tax expense		_												(283)		(283)
Net income (loss)	\$	433	\$	1,484	\$	119	\$	49	\$	(469)	\$	(89)	\$	(876)	\$	651

Consolidated results decreased \$3.844 billion to a net operating loss of \$2.401 billion in the nine months ended September 30, 2021 compared to the nine months ended September 30, 2020. The change in results is driven by the Winter Storm Uri impacts, including the need to procure power in ERCOT at market prices at or near the price cap due to lower output from our natural gas-fueled power plants driven by natural gas deliverability issues and our coal-fueled power plants driven by coal fuel handling challenges, high fuel costs, and high retail load costs. Results were also adversely impacted by \$771 million in pre-tax unrealized losses on commodity hedging transactions in 2021 compared to \$444 million in pre-tax unrealized gains on commodity hedging transactions in 2020. Power, natural gas and coal forward market curves moved up during the nine months ended September 30, 2021, driving these net pre-tax unrealized losses on commodity hedging transactions.

Depreciation expense for the nine months ended September 30, 2021 includes an immaterial out-of-period adjustment to correct for the net understatement of depreciation expense related to prior periods. See Note 1 to the Financial Statements.

Interest expense and related charges decreased \$253 million to \$288 million in the nine months ended September 30, 2021 compared to the nine months ended September 30, 2020 driven by \$92 million in unrealized mark-to-market gains on interest rate swaps in 2021 compared to \$181 million in unrealized mark-to-market losses on interest rate swaps in 2020. See Note 17 to the Financial Statements.

For the nine months ended September 30, 2021 and 2020, the Impacts of the Tax Receivable Agreement totaled income of \$31 million and \$44 million, respectively. See Note 7 to the Financial Statements for discussion of the impacts of the Tax Receivable Agreement Obligation.

For the nine months ended September 30, 2021, income tax benefit totaled \$569 million and the effective tax rate was 22.2%. For the nine months ended September 30, 2020, income tax expense totaled \$283 million and the effective tax rate was 30.3%. See Note 6 to the Financial Statements for reconciliation of the effective rates to the U.S. federal statutory rate.

Discussion of Adjusted EBITDA

Non-GAAP Measures — In analyzing and planning for our business, we supplement our use of GAAP financial measures with non-GAAP financial measures, including EBITDA and Adjusted EBITDA as performance measures. These non-GAAP financial measures reflect an additional way of viewing aspects of our business that, when viewed with our GAAP results and the accompanying reconciliations to corresponding GAAP financial measures included in the tables below, may provide a more complete understanding of factors and trends affecting our business. These non-GAAP financial measures should not be relied upon to the exclusion of GAAP financial measures and are, by definition, an incomplete understanding of Vistra and must be considered in conjunction with GAAP measures. In addition, non-GAAP financial measures are not standardized; therefore, it may not be possible to compare these financial measures with other companies' non-GAAP financial measures having the same or similar names. We strongly encourage investors to review our consolidated financial statements and publicly filed reports in their entirety and not rely on any single financial measure.

EBITDA and **Adjusted EBITDA** — We believe EBITDA and Adjusted EBITDA provide meaningful representations of our operating performance. We consider EBITDA as another way to measure financial performance on an ongoing basis. Adjusted EBITDA is meant to reflect the operating performance of our segments for the period presented. We define EBITDA as earnings (loss) before interest expense, income tax expense (benefit) and depreciation and amortization expense. We define Adjusted EBITDA as EBITDA adjusted to exclude (i) gains or losses on the sale or retirement of certain assets, (ii) the impacts of mark-to-market changes on derivatives, (iii) the impact of impairment charges, (iv) certain amounts associated with fresh-start reporting, acquisitions, dispositions, transition costs or restructurings, (v) non-cash compensation expense, (vi) impacts from the Tax Receivable Agreement and (vii) other material nonrecurring or unusual items.

Because EBITDA and Adjusted EBITDA are financial measures that management uses to allocate resources, determine our ability to fund capital expenditures, assess performance against our peers, and evaluate overall financial performance, we believe they provide useful information for investors.

When EBITDA or Adjusted EBITDA is discussed in reference to performance on a consolidated basis, the most directly comparable GAAP financial measure to EBITDA and Adjusted EBITDA is Net income (loss).

Adjusted EBITDA — Three and Nine Months Ended September 30, 2021 Compared to Three and Nine Months Ended September 30, 2020

	Three Months Ended September 30,					Favorable Unfavorable)	Nine Mont Septeml				Favorable (Unfavorable)		
		2021		2020	,	\$ Change		2021		2020		\$ Change	
Net income (loss)	\$	10	\$	442	\$	(432)	\$	(1,994)	\$	651	\$	(2,645)	
Income tax expense (benefit)		31		199		(168)		(569)		283		(852)	
Interest expense and related charges (a)		124		101		23		288		541		(253)	
Depreciation and amortization (b)		489		431		58		1,416		1,341		75	
EBITDA before Adjustments		654		1,173		(519)		(859)		2,816		(3,675)	
Unrealized net (gain) loss resulting from hedging transactions		589		(321)		910		771		(444)		1,215	
Generation plant retirement expenses		5		43		(38)		19		43		(24)	
Fresh start/purchase accounting impacts		(17)		_		(17)		(96)		34		(130)	
Impacts of Tax Receivable Agreement		(35)		(58)		23		(31)		(44)		13	
Non-cash compensation expenses		11		16		(5)		40		46		(6)	
Transition and merger expenses		(2)		(2)		_		(17)		17		(34)	
Impairment of long-lived assets		2		272		(270)		40		356		(316)	
Loss on disposal of investment in NELP		_		_		_		_		29		(29)	
COVID-19-related expenses (c)		1		3		(2)		6		18		(12)	
Winter Storm Uri impact (d)		(33)		_		(33)		866		_		866	
Other, net		(2)		11		(13)		5		14		(9)	
Adjusted EBITDA	\$	1,173	\$	1,137	\$	36	\$	744	\$	2,885	\$	(2,141)	

⁽a) Includes unrealized mark-to-market net gains on interest rate swaps of \$13 million and \$11 million for the three months ended September 30, 2021 and 2020, respectively, and unrealized mark-to-market net gains on interest rate swaps of \$92 million and unrealized mark-to-market net losses on interest rate swaps of \$181 million for the nine months ended September 30, 2021 and 2020, respectively.

Consistent with the Company's hedging practices to provide a more predictable financial performance over time, Adjusted EBITDA totaled \$1.173 billion and \$1.137 billion for the three months ended September 30, 2021 and 2020, respectively, despite significant moves in commodity prices during the period.

⁽b) Includes nuclear fuel amortization in the Texas segment of \$21 million and \$20 million for the three months ended September 30, 2021 and 2020, respectively, and \$61 million and \$57 million for the nine months ended September 30, 2021 and 2020, respectively.

⁽c) Includes material and supplies and other incremental costs related to our COVID-19 response.

⁽d) For the nine months ended September 30, 2021, includes the following amounts, which we believe are not reflective of our operating performance: \$194 million for allocation of ERCOT default uplift charges which are expected to be paid over more than 90 years under current protocols (net present value of \$45 million applying a 4.25% discount rate); accrual of Koch earn-out disputed amounts of \$286 million that the Company is contesting and does not believe should be paid; \$386 million for future bill credits related to Winter Storm Uri as further described below and Winter Storm Uri related legal fees and other costs. The adjustment for future bill credits relates to large commercial and industrial customers that curtailed during Winter Storm Uri and will reverse and impact Adjusted EBITDA in future periods as the credits are applied to customer bills. We estimate the amounts to be applied in future periods are for the remainder of 2021 (approximately \$43 million), 2022 (approximately \$185 million), 2023 (approximately \$84 million), 2024 (approximately \$18 million) and 2025 (approximately \$8 million). The Company believes the inclusion of the bill credits as a reduction to Adjusted EBITDA in the years in which such bill credits are applied more accurately reflects its operating performance.

Three	Months	Ended	September	30.	2021

	Retail	Texas	East	West	Sunset	Asset Closure	Eliminations / Corporate and Other	Vistra Consolidated
et income (loss)	\$ 77\$9	1exas \$4						
` '	J //JD	.∌∔	(23\$)	(1\$)	(3 7\$)	(%)	(14\$1)	10
ncome tax expense	2						29	31
Interest expense and related charges (a)	2	(3)	5	(1)	1	1	119	124
Depreciation and amortization (b)	53	200	164	15	40	_	17	489
BITDA before Adjustments	836	201	(64)	(4)	(334)	(5)	24	654
Unrealized net (gain) loss resulting from hedgi								
transactions	(739)	654	254	39	381	_	_	589
Generation plant retirement expenses	_	_	_	_	4	_	1	5
Fresh start/purchase accounting impacts	(2)	(2)	_	_	(13)	_	_	(17)
Impacts of Tax Receivable Agreement	_	_	_	_	_	_	(35)	(35)
Non-cash compensation expenses	_		_	_	_	_	11	11
Transition and merger expenses	(4)	_	_	_	_	_	2	(2)
Impairment of long lived assets	_	2	_	_	_	_	_	2
COVID-19-related expenses (c)	_	1	_	_	_	_	_	1
Winter Storm Uri impacts (d)	(31)	(2)	_	_	_	_	_	(33)
Other, net	5	4	3	1	(2)	1	(14)	(2)
djusted EBITDA	\$ 655	85\$8	19\$3	356	356	(\$4)	(1\$)	1,173

- (a) Includes \$13 million of unrealized mark-to-market net gains on interest rate swaps.
- (b) Includes nuclear fuel amortization of \$21 million in Texas segment.
- (c) Includes material and supplies and other incremental costs related to our COVID-19 response.
- (d) Includes bill credits related to large commercial and industrial customers that curtailed during Winter Storm Uri as the credits are applied to customer bills and a small reduction in ERCOT default uplift charges, partially offset by ongoing Winter Storm Uri related legal fees and other costs.

Tł	ree Months	Ended Septer	nber 30, 2020
:	West	Sunset	Asset Closure

	Retail	Texas	East	West	Sunset	Asset Closure	Eliminations / Corporate and Other	Vistra Consolidated
et income (loss) \$	10\$9	90\$8	10\$0	2\$9	(36\$)	(6\$)	(27 \$)	442
Income tax expense	_	_				_	199	199
Interest expense and related charges (a)	2	(2)	2	(3)	1	_	101	101
Depreciation and amortization (b)	67	127	181	5	22	12	17	431
BITDA before Adjustments	178	1,033	283	31	(345)	(48)	41	1,173
Unrealized net (gain) loss resulting from hedging transactions	(316)	(78)	(40)	(9)	122	_	_	(321)
Generation plant retirement expenses	_	_	_	_	43	_	_	43
Fresh start/purchase accounting impacts	(6)	_	6	_	_	_	_	_
Impacts of Tax Receivable Agreement	_	_	_	_	_	_	(58)	(58)
Non-cash compensation expenses	_	_	_	_	_	_	16	16
Transition and merger expenses	1	_	(5)	_	_	_	2	(2)
Impairment of long-lived assets	_	_	_	_	272	_	_	272
COVID-19-related expenses (c)	_	2	_	_	1	_	_	3
Other, net	3	15	1	1	_	2	(11)	11
djusted EBITDA \$	(14\$)	97\$2	24\$5	2\$3	9\$3	(4\$)	(1\$)	1,137

- (a) Includes \$11 million of unrealized mark-to-market net gains on interest rate swaps.
- (b) Includes nuclear fuel amortization of \$20 million in Texas segment.
- (c) Includes material and supplies and other incremental costs related to our COVID-19 response.

Nine Months Ended September 30, 2021

		Retail	Texas	East	West	Sunset	Asset Closure	Eliminations / Corporate and Other	Vistra Consolidated
income (loss)	\$	2,6\$77	(3,6 \$ 1)	(3\$2)	(\$ 2)	(8\$1)	(\$0)	2\$35	(1,994)
come tax expense (benefit)		2		_	_	_	_	(571)	(569)
terest expense and related charges (a)		7	(10)	11	(9)	1	1	287	288
epreciation and amortization (b)		160	523	553	30	99	_	51	1,416
TDA before Adjustments		2,846	(3,138)	232	(41)	(741)	(19)	2	(859)
nrealized net (gain) loss resulting from hed transactions	lging	(2,840)	2,269	407	120	815	_	_	771
eneration plant retirement expenses		_	_	_	_	19	_	_	19
esh start/purchase accounting impacts		1	(3)	(74)	_	(20)	_	_	(96)
spacts of Tax Receivable Agreement		_	_	_	_	_	_	(31)	(31)
on-cash compensation expenses		_	_	_	_	_	_	40	40
ansition and merger expenses		(2)	_	_	_	_	(15)	_	(17)
ipairment of long-lived assets		_	2	_	_	38	_	_	40
OVID-19-related expenses (c)		_	3	1	_	1	_	1	6
inter Storm Uri impacts (d)		354	511	_	_	1	_	_	866
ther, net		17	6	7	2	2	2	(31)	5
usted EBITDA	\$	3\$76	(3\$0)	5\$7 3	\$ 1	1\$1.5	(\$2)	(\$9)	744

⁽a) Includes \$92 million of unrealized mark-to-market net gains on interest rate swaps.

⁽b) Includes nuclear fuel amortization of \$61 million in Texas segment.

⁽c) Includes material and supplies and other incremental costs related to our COVID-19 response.

⁽d) Includes the following amounts, which we believe are not reflective of our operating performance: \$194 million for allocation of ERCOT default uplift charges which are expected to be paid over more than 90 years under current protocols (net present value of \$45 million applying a 4.25% discount rate); accrual of Koch earn-out disputed amounts of \$286 million that the Company is contesting and does not believe should be paid; \$386 million for future bill credits related to Winter Storm Uri as further described below and Winter Storm Uri related legal fees and other costs. The adjustment for future bill credits relates to large commercial and industrial customers that curtailed during Winter Storm Uri and will reverse and impact Adjusted EBITDA in future periods as the credits are applied to customer bills. We estimate the amounts to be applied in future periods are for the remainder of 2021 (approximately \$43 million), 2022 (approximately \$185 million), 2023 (approximately \$84 million), 2024 (approximately \$18 million) and 2025 (approximately \$8 million). The Company believes the inclusion of the bill credits as a reduction to Adjusted EBITDA in the years in which such bill credits are applied more accurately reflects its operating performance.

	Nine Months Ended September 30, 2020														
	Retail		Texas		East	West		Sunset		Asset Closure		Eliminations / Corporate and Other		Co	Vistra onsolidated
Net income (loss)	\$ 433	\$	1,484	\$	119	\$	49	\$	(469)	\$	(89)	\$	(876)	\$	651
Income tax expense	_		_		_		_		_		_		283		283
Interest expense and related charges (a)	8		(6)		6		(6)		2		_		537		541
Depreciation and amortization (b)	229		397		540		14		101		12		48		1,341
EBITDA before Adjustments	670		1,875		665		57		(366)		(77)		(8)		2,816
Unrealized net (gain) loss resulting from hedging transactions	(114)	(449)		(37)		(1)		157		_		_		(444)
Generation plant retirement expenses	_		_		_		_		43		_		_		43
Fresh start/purchase accounting impacts	1		(4)		23		_		14		_		_		34
Impacts of Tax Receivable Agreement	_		_		_		_		_		_		(44)		(44)
Non-cash compensation expenses	_		_		_		_		_		_		46		46
Transition and merger expenses	8		1		1		_		_		(3)		10		17
Impairment of long-lived assets	_		_		_		_		356		_		_		356
Loss on disposal of investment in NELP	_		_		29		_		_		_		_		29
COVID-19-related expenses (c)	_		12		2		_		3		_		1		18
Other, net	7		17		8		3		2		2		(25)		14
Adjusted EBITDA	\$ 572	\$	1,452	\$	691	\$	59	\$	209	\$	(78)	\$	(20)	\$	2,885

⁽a) Includes \$181 million of unrealized mark-to-market net losses on interest rate swaps.

Retail Segment — Three and Nine Months Ended September 30, 2021 Compared to Three and Nine Months Ended September 30, 2020

	Three Months Ended September 30,					Favorable (Unfavorable)	Nine Mon Septem		а	Favorable Unfavorable)
	20	21		2020	,	Change	2021	2020	(Change
Operating revenues:										
Revenues in ERCOT	\$	1,917	\$	1,839	\$	78	\$ 4,521	\$ 4,536	\$	(15)
Revenues in Northeast/Midwest		624		683		(59)	1,715	1,862		(147)
Amortization expense		2		7		(5)	(1)	(1)		_
Unrealized net losses on hedging activities (a)		(383)		(8)		(375)	(406)	(12)		(394)
Total operating revenues		2,160		2,521		(361)	5,829	6,385		(556)
Fuel, purchased power costs and delivery fees:										
Purchases from affiliates		(1,607)		(1,859)		252	(3,784)	(3,761)		(23)
Unrealized net gains (losses) on hedging activities with affiliates		1,117		323		794	3,244	127		3,117
Unrealized net gains (losses) on hedging activities		5		1		4	2	(1)		3
Delivery fees		(595)		(570)		(25)	(1,472)	(1,446)		(26)
Other costs (b)		(15)		(14)		(1)	(335)	(52)		(283)
Total fuel, purchased power costs and delivery fees		(1,095)		(2,119)		1,024	(2,345)	(5,133)		2,788
Net income	\$	779	\$	109	\$	670	\$ 2,677	\$ 433	\$	2,244

⁽b) Includes nuclear fuel amortization of \$57 million in Texas segment.

⁽c) Includes material and supplies and other incremental costs related to our COVID-19 response.

	Three Mon Septem	iths Ended iber 30,	Favorable (Unfavorable)		ths Ended iber 30,	Favorable (Unfavorable)
	2021	2021 2020		2021	2020	Change
Adjusted EBITDA	\$ 65	\$ (140)	\$ 205	\$ 376	\$ 572	\$ (196)
Retail sales volumes (GWh):						
Retail electricity sales volumes:						
Sales volumes in ERCOT	17,732	16,573	1,159	44,215	41,547	2,668
Sales volumes in Northeast/Midwest	10,034	11,103	(1,069)	27,558	28,640	(1,082)
Total retail electricity sales volumes	27,766	27,676	90	71,773	70,187	1,586
Weather (North Texas average) - percent of normal (c):						
Cooling degree days	91.2 %	89.0 %		86.9 %	91.0 %	
Heating degree days	— %	— %		117.1 %	88.0 %	

⁽a) During both the three and nine months ended September 30, 2021, a net loss of \$(357) million was recognized in operating revenues due to the discontinuance of normal purchase and sale accounting on a retail electric contract portfolio where physical settlement is no longer considered probable throughout the contract term.

Net income increased by \$670 million to \$779 million and Adjusted EBITDA increased by \$205 million to \$65 million in the three months ended September 30, 2021 compared to the three months ended September 30, 2020. Net income increased by \$2.244 billion to \$2.677 billion and Adjusted EBITDA decreased by \$196 million to \$376 million in the nine months ended September 30, 2021 compared to the nine months ended September 30, 2020.

	Sep	ee Months Ended tember 30, 2021 mpared to 2020	Nine Months Ended September 30, 2021 Compared to 2020
Monetization of certain commercial positions	\$	30	\$ 145
Winter Storm Uri, including bill credits		13	(551)
Higher margins		167	246
Other driven by higher SG&A		(5)	(36)
Change in Adjusted EBITDA	\$	205	\$ (196)
Favorable impact of higher unrealized net gains on hedging activities		423	2,726
Future bill credits and other costs related to Winter Storm Uri		31	(354)
Decrease in depreciation and amortization expenses		14	69
Change in transition and merger and other expenses		(3)	(1)
Change in net income	\$	670	\$ 2,244

⁽b) For the nine months ended September 30, 2021, includes \$162 million of future bill credits to large commercial and industrial customers.

⁽c) Weather data is obtained from Weatherbank, Inc. For the three and nine months ended September 30, 2021, normal is defined as the average over the 10-year period from September 2011 to September 2020. For the three and nine months ended September 30, 2020, normal is defined as the average over the 10-year period from September 2010 to September 2019.

Generation — Three Months Ended September 30, 2021 Compared to Three Months Ended September 30, 2020

Texas

(458)

(293)

2021 2020 2021 2020 2021 2020 2021 2020 Operating revenues: \$ \$ \$ Electricity sales \$ 462 \$ 155 \$ 411 210 134 \$ 78 265 \$ 280 Capacity revenue from ISO/RTO 51 40 (13)(25)1 1,307 1.078 113 Sales to affiliates 413 436 1 1 116 Rolloff of unrealized net gains 55 4 69 (41)138 (56)41 (17)

East

Three Months Ended September 30,

West

Sunset

(losses) representing positions settled in the current period Unrealized net gains (losses) on hedging activities (153)129 225 67 (101)1 (500)(44)Unrealized net (losses) on hedging activities with affiliates (188)(472)(85)(118)(48)(527)Other revenues (2) (4)Operating revenues 843 1,541 508 644 90 84 (122)299 Fuel, purchased power costs and

delivery fees:
Fuel for generation facilities and purchased power costs

Fuel for generation facilities and

purchased power costs from 2 1 1 (4) (1) 1 affiliates Unrealized gains (losses) from 19 7 hedging activities 43 (1) 49 4 168 11 Unrealized net losses on hedging activities with affiliates (2) (4) Ancillary and other costs (68)(36)(10)(7) (1) (1)(2) Fuel, purchased power costs

(536)

(301)

(84)

(41)

(265)

(235)

and delivery fees (482)295) (38) (100)(328)(496)(78)(227)Net income (loss) 908 (233)100 (18)29 (375)(368)245 \$ 858 972 193 36 \$ 23 93 36 **Adjusted EBITDA Production volumes (GWh):**

Natural gas facilities 9,597 10,722 14,760 16,248 1,635 1,347 Lignite and coal facilities 7,969 7,226 11,454 9,510 Nuclear facilities 5,254 5,270 Solar/Battery facilities 135 133 **Capacity factors: CCGT** facilities 52.7 % 58.7 % 60.7 % 66.4 % 59.7 % 72.6 % Lignite and coal facilities 93.7 % 85.0 % 71.2 % 59.2 %

Nuclear facilities 103.5 % 103.8 % Weather - percent of normal (a): Cooling degree days 92.4 % 96.0 % 101.3 % 108.0 % 94.5 % 114.0 % 109.6 % 102.0 % Heating degree days **--** % **--** % 37.2 % 144.0 % **--** % **--** % 47.7 % 98.0 %

⁽a) Reflects cooling degree days or heating degree days for the region based on Weather Services International (WSI) data.

		Three Mor Septen			Three Mor Septen	
		2021	2020		 2021	2020
Market pricing				Average Market On-Peak Power Prices (\$MWh) (b):		 _
				PJM West Hub	\$ 51.37	\$ 28.35
Average ERCOT North power price (\$/MWh) \$	38.64	\$ 24.87	AEP Dayton Hub	\$ 50.29	\$ 28.44
Average NYMEX Henry Hub natural gas				NYISO Zone C	\$ 43.95	\$ 23.09
price (\$/MMBtu)	\$	4.27	\$ 1.95	Massachusetts Hub	\$ 52.69	\$ 27.22
Average natural gas price (a):				Indiana Hub	\$ 51.59	\$ 29.84
TetcoM3 (\$/MMBtu)	\$	3.75	\$ 1.45	Northern Illinois Hub	\$ 48.19	\$ 25.80
Algonquin Citygates (\$/MMBtu)	\$	3.86	\$ 1.52			

⁽a) Reflects the average of daily quoted prices for the periods presented and does not reflect costs incurred by us.

The following table presents changes in net income (loss) and Adjusted EBITDA for the three months ended September 30, 2021 compared to the three months ended September 30, 2020.

	Three Months Ended September 30, 2021 Compared to 2020										
	-	Texas		East		West		Sunset			
Favorable/(unfavorable) change in revenue net of fuel	\$	(144)	\$	(44)	\$	14	\$	(49)			
Winter Storm Uri impact		(3)				_		_			
Favorable/(unfavorable) change in other operating costs		26		(6)		(1)		(11)			
Favorable change in selling, general and administrative expenses		5		1		1		6			
Other (a)		2		(3)		(1)		(3)			
Change in Adjusted EBITDA	\$	(114)	\$	(52)	\$	13	\$	(57)			
Favorable/(unfavorable) change in depreciation and amortization		(73)		17		(10)		(18)			
Change in unrealized net losses on hedging activities		(732)		(294)		(48)		(259)			
Impairment of long-lived assets		(2)		_		_		272			
Generation plant retirement expenses		_						39			
Fresh start/purchase accounting impacts		2		6		_		13			
Transition and merger expenses		_		(5)		_		_			
Winter Storm Uri impact (ERCOT default uplift and legal disputes)		2		_		_		_			
Other (including interest and COVID-19 related expenses)		13		(5)		(2)		3			
Change in Net income (loss)	\$	(904)	\$	(333)	\$	(47)	\$	(7)			

⁽a) For the three months ended September 30, 2021, includes insurance proceeds of \$5 million in the Sunset segment and \$4 million in the Texas segment.

The change in Texas segment results was driven by lower revenue net of fuel, unrealized hedging losses in current year versus unrealized hedging gains in prior year and higher depreciation expense.

The change in East segment results was driven by lower revenue net of fuel and unrealized hedging losses in current year versus unrealized hedging gains in prior year.

The change in West segment results was driven by unrealized hedging losses in current year versus unrealized hedging gains in prior year, partially offset by a favorable change in revenue net of fuel.

The change in Sunset segment results was driven by lower revenue net of fuel, higher operating costs and larger unrealized hedging losses in current year versus prior year.

⁽b) Reflects the average of day-ahead quoted prices for the periods presented and does not necessarily reflect prices we realized.

Generation — Nine Months Ended September 30, 2021 Compared to Nine Months Ended September 30, 2020

Nine Months Ended September 30, East Texas West Sunset 2021 2020 2021 2020 2021 2020 2021 2020 Operating revenues: \$ \$ \$ Electricity sales \$ 1,502 \$ 598 \$ 986 \$ 582 \$ 302 204 701 641 Capacity revenue from ISO/RTO (34)133 124 (14)1 2.185 1,287 3 3 294 286 Sales to affiliates 2,310 1,178 Rolloff of unrealized net gains (losses) representing positions 138 44 settled in the current period (170)74 (24)(21)15 (173)Unrealized net gains (losses) on hedging activities (31)322 357 (10)(179)25 (752)75 Unrealized net gains (losses) on hedging activities with affiliates (2,153)66 (819)(119)(272)(74)Other revenues 74 (10)(16)Operating revenues 1,458 3,245 1,738 1,845 171 211 109 863 Fuel, purchased power costs and delivery fees: Fuel for generation facilities and (2,439)(695)(1,321)(888)(176)(110)(644)(527)purchased power costs Fuel for generation facilities and purchased power costs from 5 2 (1) (8) (2) affiliates Unrealized gains (losses) from 85 79 28 15 194 15 hedging activities (13)(3)Ancillary and other costs (1,778)(102)(27)(29)(3)(2) (6) (5) Fuel, purchased power costs (1,269)(164)(458)and delivery fees (4,133)(805)(897)(115)(515)(3,651)1,484 (332)119 49 (841)(469)Net income (loss) (62)(350)1,452 **573** 691 \$ 81 59 115 \$ 209 **Adjusted EBITDA Production volumes (GWh):** Natural gas facilities 23,142 27,111 40,781 41,682 3,998 3,755 Lignite and coal facilities 19,441 18,717 20,696 28,582 Nuclear facilities 15,343 15,045 3 Solar/Battery facilities 357 341 **Capacity factors:** 43.1 % 50.7 % CCGT facilities 56.7 % 57.8 % 59.8 % 56.1 % 60.0 % Lignite and coal facilities 77.1 % 74.2 % 43.4 % Nuclear facilities 101.8 % 99.8 % Weather - percent of normal (a): 107.2 % 106.0 % 103.0 % Cooling degree days 89.8 % 98.0 % 95.5 % 126.0 % 112.1 % Heating degree days 122.9 % 81.0 % 95.3 % 93.0 % 108.2 % 91.0 % 94.4 % 89.0 %

⁽a) Reflects cooling degree days or heating degree days for the region based on Weather Services International (WSI) data.

	Nine Months Ended September 30,					Nine Mon Septen		
2021 2020			2021	2020				
Market pricing					Average Market On-Peak Power Prices (\$MWh) (b):			
Average ERCOT North power price					PJM West Hub	\$ 39.95	\$	23.91
(\$/MWh)	\$	186.71	\$	20.25	AEP Dayton Hub	\$ 40.15	\$	24.06
Average NYMEX Henry Hub natural gas					NYISO Zone C	\$ 31.94	\$	19.26
price (\$/MMBtu)	\$	3.52	\$	1.82	Massachusetts Hub	\$ 46.96	\$	24.06
Average natural gas price (a):					Indiana Hub	\$ 43.99	\$	26.23
TetcoM3 (\$/MMBtu)	\$	3.11	\$	1.55	Northern Illinois Hub	\$ 37.77	\$	22.12
Algonquin Citygates (\$/MMBtu)	\$	3.93	\$	1.75				

⁽a) Reflects the average of daily quoted prices for the periods presented and does not reflect costs incurred by us.

The following table presents changes in net income (loss) and Adjusted EBITDA for the nine months ended September 30, 2021 compared to the nine months ended September 30, 2020.

	Nine Months Ended September 30, 2021 Compared to 2020									
		Texas		East		West		Sunset		
Favorable/(unfavorable) change in revenue net of fuel	\$	(362)	\$	(160)	\$	31	\$	(88)		
Winter Storm Uri impact		(1,551)		50		_		17		
Favorable/(unfavorable) change in other operating costs		42		(9)		(5)		(33)		
Change in selling, general and administrative expenses		68		5		(4)		17		
Other (a)		1		(4)		_		(7)		
Change in Adjusted EBITDA	\$	(1,802)	\$	(118)	\$	22	\$	(94)		
Favorable/(unfavorable) change in depreciation and amortization		(126)		(13)		(16)		2		
Change in unrealized net losses on hedging activities		(2,718)		(444)		(121)		(658)		
Impairment of long-lived assets		(2)		_		_		318		
Generation plant retirement expenses		_		_		_		24		
Fresh start/purchase accounting impacts		(1)		97		_		34		
Transition and merger expenses		1		1		_		_		
Loss on disposal of investment in NELP		_		29		_		_		
Winter Storm Uri impact (ERCOT default uplift and legal disputes)		(511)		_				(1)		
Other (including interest and COVID-19 related expenses)		24		(3)		4		3		
Change in Net income (loss)	\$	(5,135)	\$	(451)	\$	(111)	\$	(372)		

⁽a) For the nine months ended September 30, 2021, includes insurance proceeds of \$67 million in the Texas segment and \$5 million in the Sunset segment.

The change in Texas segment results was primarily driven by the Winter Storm Uri impacts, including the need to procure power in ERCOT at market prices at or near the price cap due to lower output from our natural gas-fueled power plants driven by natural gas deliverability issues, lower margins from our natural gas-fueled power plants due to extremely high fuel costs, and, to a lesser extent, operational challenges associated with Winter Storm Uri and unrealized hedging losses in current year versus unrealized hedging gains in prior year, partially offset by insurance proceeds received in 2021.

The change in East segment results was driven by lower revenue net of fuel, loss on disposal of equity method investment in NELP for 100% ownership of NJEA (see Note 17 to the Financial Statements) in 2020, and unrealized hedging losses in current year versus unrealized hedging gains in prior year.

⁽b) Reflects the average of day-ahead quoted prices for the periods presented and does not necessarily reflect prices we realized.

The change in West segment results was driven by unrealized hedging losses in current year versus unrealized gains in prior year, partially offset by a favorable change in revenue net of fuel.

The change in Sunset segment results was driven by larger unrealized hedging losses in current year versus prior year and lower margins due to lower realized prices and higher operating costs, partially offset by higher impairment of long-lived assets and generation plant retirement expenses related to our Joppa/EEI, Kincaid and Zimmer coal generation facilities in 2020.

Asset Closure Segment — Three and Nine Months Ended September 30, 2021 Compared to Three and Nine Months Ended September 30, 2020

	Three Months Ended September 30,		Favorable (Unfavorable)		Nine Months Ended September 30,					Favorable (Unfavorable)	
		2021	2020		Change		2021		2020		Change
Operating revenues	\$	_	\$ 1	\$	(1)	\$	_	\$	3	\$	(3)
Operating costs		(1)	(47)		46	\$	(19)	\$	(66)	\$	47
Depreciation and amortization		_	(11)		11		_		(12)		12
Selling, general and administrative expenses		(5)	(8)		3		(20)		(20)		_
Operating loss		(6)	(65)		59		(39)		(95)		56
Other income		1	5		(4)		20		8		12
Other deductions		_	_		_		_		(2)		2
Interest expense and related charges		(1)	_		(1)		(1)		_		(1)
Loss before income taxes		(6)	(60)		54		(20)		(89)		69
Net loss	\$	(6)	\$ (60)	\$	54	\$	(20)	\$	(89)	\$	69
Adjusted EBITDA	\$	(4)	\$ (46)	\$	42	\$	(32)	\$	(78)	\$	46

Operating costs for the three and nine months ended September 30, 2021 and 2020 included ongoing costs associated with the decommissioning and reclamation of retired plants and mines. The nine months ended September 30, 2021 includes a gain on the settlement of rail transportation disputes (see Note 17 to the Financial Statements).

Energy-Related Commodity Contracts and Mark-to-Market Activities

The table below summarizes the changes in commodity contract assets and liabilities for the nine months ended September 30, 2021 and 2020. The net change in these assets and liabilities, excluding "other activity" as described below, reflects \$771 million in unrealized net losses and \$444 million in unrealized net gains for the nine months ended September 30, 2021 and 2020, respectively, arising from mark-to-market accounting for positions in the commodity contract portfolio.

	Nine Months Ended September 30,			i
		2021		2020
Commodity contract net liability at beginning of period	\$	(75)	\$	(279)
Settlements/termination of positions (a)		(202)		74
Changes in fair value of positions in the portfolio (b)		(569)		370
Other activity (c)		(116)		7
Commodity contract net asset (liability) at end of period	\$	(962)	\$	172

- (a) Represents reversals of previously recognized unrealized gains and losses upon settlement/termination (offsets realized gains and losses recognized in the settlement period). The nine months ended September 30, 2021 and 2020 include reversals of \$1 million and \$7 million, respectively, of previously recorded unrealized losses related to commodity contracts acquired in the Merger, Crius acquisition and Ambit acquisition. The nine months ended September 30, 2020 includes reversal of \$1 million of previously recorded losses related to Vistra beginning balances. Excludes changes in fair value in the month the position settled as well as amounts related to positions entered into, and settled, in the same month.
- (b) Represents unrealized net gains (losses) recognized, reflecting the effect of changes in fair value. Excludes changes in fair value in the month the position settled as well as amounts related to positions entered into, and settled, in the same month.
- (c) Represents changes in fair value of positions due to receipt or payment of cash not reflected in unrealized gains or losses. Amounts are generally related to premiums related to options purchased or sold as well as certain margin deposits classified as settlement for certain transactions executed on the CME.

Maturity Table — The following table presents the net commodity contract liability arising from recognition of fair values at September 30, 2021, scheduled by the source of fair value and contractual settlement dates of the underlying positions.

	Maturity dates of unrealized commodity contract net liability at September 30, 2021									
	Less than 1 year		1-3 years		4-5 years		Excess of 5 years		Total	
Prices actively quoted	\$ (554)	\$	(85)	\$	1	\$	_	\$	(638)	
Prices provided by other external sources	(13)		(90)		5		(2)		(100)	
Prices based on models	(57)		2		(80)		(89)		(224)	
Total	\$ (624)	\$	(173)	\$	(74)	\$	(91)	\$	(962)	

FINANCIAL CONDITION

Operating Cash Flows

Cash used in operating activities totaled \$493 million for the nine months ended September 30, 2021 compared to cash provided by operating activities of \$2.350 billion for the nine months ended September 30, 2020. The unfavorable change of \$2.843 billion was primarily driven by lower cash from operations due to Winter Storm Uri impacts and higher cash margin deposits posted with third-parties.

Depreciation and amortization expense reported as a reconciling adjustment in the condensed consolidated statements of cash flows exceeds the amount reported in the condensed consolidated statements of operations by \$196 million and \$228 million for the nine months ended September 30, 2021 and 2020, respectively. The difference represented amortization of nuclear fuel, which is reported as fuel costs in the condensed consolidated statements of operations consistent with industry practice, and amortization of intangible net assets and liabilities that are reported in various other condensed consolidated statements of operations line items including operating revenues and fuel and purchased power costs and delivery fees.

Investing Cash Flows

Cash used in investing activities totaled \$843 million and \$927 million for the nine months ended September 30, 2021 and 2020, respectively. Capital expenditures totaled \$790 million and \$838 million for the nine months ended September 30, 2021 and 2020, respectively, and consisted of the following:

Nine Months Ended

	September 30,			
	2021		2020	
Capital expenditures, including LTSA prepayments	\$ 437	\$	439	
Nuclear fuel purchases	\$ 30	\$	69	
Growth and development expenditures	\$ 323	\$	330	
Capital expenditures	\$ 790	\$	838	

Cash used in investing activities also reflected net purchases of environmental allowances of \$145 million and \$119 million for the nine months ended September 30, 2021 and 2020, respectively. In the nine months ended September 30, 2021 and 2020, we also received insurance proceeds of \$74 million and \$15 million, respectively.

Financing Cash Flows

Cash provided by financing activities totaled \$1.279 billion in the nine months ended September 30, 2021 compared to cash used of \$1.348 billion for the nine months ended September 30, 2020. The change was primarily driven by:

- the issuance of \$1.250 billion principal amount of Vistra Operations senior unsecured notes in May 2021;
- redemption of \$747 million principal amount of outstanding of Vistra unsecured senior notes in 2020;
- \$500 million in cash received from the sale of a portion of the PJM capacity that cleared for Planning Years 2021-2022 in March 2021;
- net borrowings of \$175 million under the accounts receivable financing facilities in 2021;
- net repayment of \$350 million in short-term borrowings under the Revolving Credit Facility in 2020;
- repayment of \$100 million of term loans under the Vistra Operations Credit Facility in March 2020;

partially offset by \$175 million in cash paid for share repurchases in 2021.

Debt Activity

See Note 9 to the Financial Statements for details of the Receivables Facility and Repurchase Facility and Note 10 to the Financial Statements for details of the Vistra Operations Credit Facilities and other long-term debt.

Available Liquidity

The following table summarizes changes in available liquidity for the nine months ended September 30, 2021:

	September 30, 2021		December 31, 2020	Change
Cash and cash equivalents	\$ 35	1 \$	\$ 406	\$ (55)
Vistra Operations Credit Facilities — Revolving Credit Facility	1,72	0	1,988	(268)
Vistra Operations — Alternate Letter of Credit Facility	-	_	5	(5)
Total available liquidity (a)	\$ 2,07	1 5	2,399	\$ (328)

⁽a) Excludes amounts available to be borrowed under the Receivables Facility and the Repurchase Facility, respectively. See Note 9 to the Financial Statements for detail on our accounts receivable financing.

The \$328 million decrease in available liquidity for the nine months ended September 30, 2021 was primarily driven by cash used in operations, including higher cash margin deposits posted with third parties, \$790 million of capital expenditures (including LTSA prepayments, nuclear fuel and development and growth expenditures), \$175 million in cash paid for share repurchases, \$219 million in dividends paid to stockholders and a \$268 million increase in letters of credit outstanding under the Revolving Credit Facility, partially offset by cash received from the issuance of \$1.250 billion principal amount of Vistra Operations senior unsecured notes in May 2021, \$500 million in cash received from the sale of a portion of the PJM capacity that cleared for Planning Years 2021-2022 and \$175 million in net cash borrowings under the accounts receivable financing facilities.

If the Company experienced a significant reduction in revenues or increases in costs or collateral requirements, such as a result of Winter Storm Uri, the Company believes it would have additional alternatives to maintain access to liquidity, including drawing upon available liquidity, accessing additional sources of capital or reducing capital expenditures, planned voluntary debt repayments or operating costs.

Based upon our current internal financial forecasts, we believe that we will have sufficient liquidity to fund our anticipated cash requirements through at least the next 12 months. Our operational cash flows tend to be seasonal and weighted toward the second half of the year.

Liquidity Effects of Commodity Hedging and Trading Activities

We have entered into commodity hedging and trading transactions that require us to post collateral if the forward price of the underlying commodity moves such that the hedging or trading instrument we hold has declined in value. We use cash, letters of credit and other forms of credit support to satisfy such collateral posting obligations. See Note 10 to the Financial Statements for discussion of the Vistra Operations Credit Facilities.

Exchange cleared transactions typically require initial margin (*i.e.*, the upfront cash and/or letter of credit posted to take into account the size and maturity of the positions and credit quality) in addition to variation margin (*i.e.*, the daily cash margin posted to take into account changes in the value of the underlying commodity). The amount of initial margin required is generally defined by exchange rules. Clearing agents, however, typically have the right to request additional initial margin based on various factors, including market depth, volatility and credit quality, which may be in the form of cash, letters of credit, a guaranty or other forms as negotiated with the clearing agent. Cash collateral received from counterparties is either used for working capital and other business purposes, including reducing borrowings under credit facilities, or is required to be deposited in a separate account and restricted from being used for working capital and other corporate purposes. With respect to over-the-counter transactions, counterparties generally have the right to substitute letters of credit for such cash collateral. In such event, the cash collateral previously posted would be returned to such counterparties, which would reduce liquidity in the event the cash was not restricted.

At September 30, 2021, we received or posted cash and letters of credit for commodity hedging and trading activities as follows:

- \$1.048 billion in cash has been posted with counterparties as compared to \$257 million posted at December 31, 2020;
- \$57 million in cash has been received from counterparties as compared to \$33 million received at December 31, 2020;
- \$1.316 billion in letters of credit have been posted with counterparties as compared to \$878 million posted at December 31, 2020; and
- \$27 million in letters of credit have been received from counterparties as compared to \$18 million received at December 31, 2020.

See Collateral Support Obligations below for information related to collateral posted in accordance with PUCT and ISO/RTO rules.

Income Tax Payments

In the next 12 months, we do not expect to make federal income tax payments due to Vistra's loss position in 2021 and use of NOL carryforwards. We expect to make approximately \$31 million in state income tax payments, offset by \$9 million in state tax refunds, and \$2 million in TRA payments in the next 12 months.

For the nine months ended September 30, 2021, there were no federal income tax payments, \$46 million in state income tax payments, \$2 million in state income tax refunds and no TRA payments.

Financial Covenants

The Credit Facilities Agreement includes a covenant, solely with respect to the Revolving Credit Facility and solely during a compliance period (which, in general, is applicable when the aggregate revolving borrowings and issued revolving letters of credit (in excess of \$300 million) exceed 30% of the revolving commitments), that requires the consolidated first-lien net leverage ratio not exceed 4.25 to 1.00. Although the period ended September 30, 2021 was not a compliance period, we would have been in compliance with this financial covenant if it was required to be tested at such date.

See Note 10 to the Financial Statements for discussion of other covenants related to the Vistra Operations Credit Facilities.

Collateral Support Obligations

The RCT has rules in place to assure that parties can meet their mining reclamation obligations. In September 2016, the RCT agreed to a collateral bond of up to \$975 million to support Luminant's reclamation obligations. The collateral bond is effectively a first lien on all of Vistra Operations' assets (which ranks pari passu with the Vistra Operations Credit Facilities) that contractually enables the RCT to be paid (up to \$975 million) before the other first-lien lenders in the event of a liquidation of our assets. Collateral support relates to land mined or being mined and not yet reclaimed as well as land for which permits have been obtained but mining activities have not yet begun and land already reclaimed but not released from regulatory obligations by the RCT, and includes cost contingency amounts.

The PUCT has rules in place to assure adequate creditworthiness of each REP, including the ability to return customer deposits, if necessary. Under these rules, at September 30, 2021, Vistra has posted letters of credit in the amount of \$74 million with the PUCT, which is subject to adjustments.

The ISOs/RTOs we operate in have rules in place to assure adequate creditworthiness of parties that participate in the markets operated by those ISOs/RTOs. Under these rules, Vistra has posted collateral support totaling \$384 million in the form of letters of credit, \$20 million in the form of a surety bond and \$1 million of cash at September 30, 2021 (which is subject to daily adjustments based on settlement activity with the ISOs/RTOs).

Material Cross Default/Acceleration Provisions

Certain of our contractual arrangements contain provisions that could result in an event of default if there were a failure under financing arrangements to meet payment terms or to observe covenants that could result in an acceleration of payments due. Such provisions are referred to as "cross default" or "cross acceleration" provisions.

A default by Vistra Operations or any of its restricted subsidiaries in respect of certain specified indebtedness in an aggregate amount in excess of \$300 million may result in a cross default under the Vistra Operations Credit Facilities. Such a default would allow the lenders to accelerate the maturity of outstanding balances under such facilities, which totaled approximately \$2.550 billion at September 30, 2021.

Each of Vistra Operations' (or its subsidiaries') commodity hedging agreements and interest rate swap agreements that are secured with a lien on its assets on a pari passu basis with the Vistra Operations Credit Facilities lenders contains a cross default provision. An event of a default by Vistra Operations or any of its subsidiaries relating to indebtedness equal to or above a threshold defined in the applicable agreement that results in the acceleration of such debt, would give such counterparty under these hedging agreements the right to terminate its hedge or interest rate swap agreement with Vistra Operations (or its applicable subsidiary) and require all outstanding obligations under such agreement to be settled.

Under the Vistra Operations Senior Unsecured Indentures and the Vistra Operations Senior Secured Indenture, a default under any document evidencing indebtedness for borrowed money by Vistra Operations or any Guarantor Subsidiary for failure to pay principal when due at final maturity or that results in the acceleration of such indebtedness in an aggregate amount of \$300 million or more may result in a cross default under the Vistra Operations Senior Unsecured Notes, the Senior Secured Notes, the Vistra Operations Credit Facilities, the Receivables Facility, the Alternate LOC Facilities, and other current or future documents evidencing any indebtedness for borrowed money by the applicable borrower or issuer, as the case may be, and the applicable Guarantor Subsidiaries party thereto.

Additionally, we enter into energy-related physical and financial contracts, the master forms of which contain provisions whereby an event of default or acceleration of settlement would occur if we were to default under an obligation in respect of borrowings in excess of thresholds, which may vary by contract.

The Receivables Facility contains a cross-default provision. The cross-default provision applies, among other instances, if TXU Energy, Dynegy Energy Services, Ambit Texas, Value Based Brands and TriEagle, each indirect subsidiaries of Vistra and originators under the Receivables Facility (Originators), fails to make a payment of principal or interest on any indebtedness that is outstanding in a principal amount of at least \$300 million, or, in the case of TXU Energy or any of the other Originators, in a principal amount of at least \$50 million, after the expiration of any applicable grace period, or if other events occur or circumstances exist under such indebtedness which give rise to a right of the debtholder to accelerate such indebtedness, or if such indebtedness becomes due before its stated maturity. If this cross-default provision is triggered, a termination event under the Receivables Facility would occur and the Receivables Facility may be terminated.

The Repurchase Facility contains a cross-default provision. The cross-default provision applies, among other instances, if an event of default (or similar event) occurs under the Receivables Facility or the Vistra Operations Credit Facilities. If this cross-default provision is triggered, a termination event under the Repurchase Facility would occur and the Repurchase Facility may be terminated.

Under the Alternate LOC Facilities, a default under any document evidencing indebtedness for borrowed money by Vistra Operations or any Guarantor Subsidiary for failure to pay principal when due at final maturity or that results in the acceleration of such indebtedness in an aggregate amount of \$300 million or more, may result in a termination of the Alternate LOC Facilities.

Under the Secured LOC Facilities, a default under any document evidencing indebtedness for borrowed money by Vistra Operations or any Guarantor Subsidiary for failure to pay principal when due at final maturity or that results in the acceleration of such indebtedness in an aggregate amount of \$300 million or more, may result in a termination of the Secured LOC Facilities.

Guarantees

See Note 11 to the Financial Statements for discussion of guarantees.

COMMITMENTS AND CONTINGENCIES

See Note 11 to the Financial Statements for discussion of commitments and contingencies.

CHANGES IN ACCOUNTING STANDARDS

See Note 1 to the Financial Statements for discussion of changes in accounting standards.

Item 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Market risk is the risk that in the normal course of business we may experience a loss in value because of changes in market conditions that affect economic factors such as commodity prices, interest rates and counterparty credit. Our exposure to market risk is affected by several factors, including the size, duration and composition of our energy and financial portfolio, as well as the volatility and liquidity of markets. Instruments used to manage this exposure include interest rate swaps to hedge debt costs, as well as exchange-traded, over-the-counter contracts and other contractual arrangements to hedge commodity prices.

Risk Oversight

We manage the commodity price, counterparty credit and commodity-related operational risk related to the competitive energy business within limitations established by senior management and in accordance with overall risk management policies. Interest rate risk is managed centrally by our treasury function. Market risks are monitored by risk management groups that operate independently of the wholesale commercial operations, utilizing defined practices and analytical methodologies. These techniques measure the risk of change in value of the portfolio of contracts and the hypothetical effect on this value from changes in market conditions and include, but are not limited to, position reporting and review, Value at Risk (VaR) methodologies and stress test scenarios. Key risk control activities include, but are not limited to, transaction review and approval (including credit review), operational and market risk measurement, transaction authority oversight, validation of transaction capture, market price validation and reporting, and portfolio valuation and reporting, including mark-to-market valuation, VaR and other risk measurement metrics.

Vistra has a risk management organization that enforces applicable risk limits, including the respective policies and procedures to ensure compliance with such limits, and evaluates the risks inherent in our businesses.

Commodity Price Risk

Our business is subject to the inherent risks of market fluctuations in the price of electricity, natural gas and other energy-related products it markets or purchases. We actively manage the portfolio of generation assets, fuel supply and retail sales load to mitigate the near-term impacts of these risks on results of operations. Similar to other participants in the market, we cannot fully manage the long-term value impact of structural declines or increases in natural gas and power prices.

In managing energy price risk, we enter into a variety of market transactions including, but not limited to, short- and long-term contracts for physical delivery, exchange-traded and over-the-counter financial contracts and bilateral contracts with customers. Activities include hedging, the structuring of long-term contractual arrangements and proprietary trading. We continuously monitor the valuation of identified risks and adjust positions based on current market conditions. We strive to use consistent assumptions regarding forward market price curves in evaluating and recording the effects of commodity price risk.

VaR Methodology — A VaR methodology is used to measure the amount of market risk that exists within the portfolio under a variety of market conditions. The resultant VaR produces an estimate of a portfolio's potential for loss given a specified confidence level and considers, among other things, market movements utilizing standard statistical techniques given historical and projected market prices and volatilities.

Parametric processes are used to calculate VaR and are considered by management to be the most effective way to estimate changes in a portfolio's value based on assumed market conditions for liquid markets. The use of this method requires a number of key assumptions, such as use of (i) an assumed confidence level, (ii) an assumed holding period (*i.e.*, the time necessary for management action, such as to liquidate positions) and (iii) historical estimates of volatility and correlation data. The table below details a VaR measure related to various portfolios of contracts.

VaR for Underlying Generation Assets and Energy-Related Contracts — This measurement estimates the potential loss in value, due to changes in market conditions, of all underlying generation assets and contracts, based on a 95% confidence level and an assumed holding period of 60 days. The forward period covered by this calculation includes the current and subsequent calendar year at the time of calculation.

	Ended September 30, 202		Year Ended December 31, 2020
Month-end average VaR	\$	174	\$ 234
Month-end high VaR	\$	584	\$ 361
Month-end low VaR	\$	280	\$ 164

The increase in the month-end high VaR risk measure in 2021 is primarily driven by a larger net open position, higher forward prices and an increase in volatility compared to the prior year.

Interest Rate Risk

At September 30, 2021, the potential reduction of annual pre-tax earnings over the next twelve months due to a one percentage-point (100 basis points) increase in floating interest rates on long-term debt totaled approximately \$7 million taking into account the interest rate swaps discussed in Note 10 to Financial Statements.

Credit Risk

Credit risk relates to the risk of loss associated with nonperformance by counterparties. We minimize credit risk by evaluating potential counterparties, monitoring ongoing counterparty risk and assessing overall portfolio risk. This includes review of counterparty financial condition, current and potential credit exposures, credit rating and other quantitative and qualitative credit criteria. We also employ certain risk mitigation practices, including utilization of standardized master agreements that provide for netting and setoff rights, as well as credit enhancements such as margin deposits and customer deposits, letters of credit, parental guarantees and surety bonds. See Note 14 to the Financial Statements for further discussion of this exposure.

Credit Exposure — Our gross credit exposure (excluding collateral impacts) associated with retail and wholesale trade accounts receivable and net derivative assets arising from commodity contracts and hedging and trading activities totaled \$1.829 billion at September 30, 2021.

At September 30, 2021, Retail segment credit exposure totaled approximately \$1.155 billion of trade accounts receivable. Cash deposits and letters of credit held as collateral for these receivables totaled \$60 million, resulting in a net exposure of approximately \$1.095 billion. Allowances for uncollectible accounts receivable are established for the potential loss from nonpayment by these customers based on historical experience, market or operational conditions and changes in the financial condition of large business customers.

At September 30, 2021, aggregate Texas, East and Sunset segments credit exposure totaled \$674 million including \$523 million related to derivative assets and \$151 million of trade accounts receivable, after taking into account master netting agreement provisions but excluding collateral impacts.

Including collateral posted to us by counterparties, our net Texas, East and Sunset segments exposure was \$619 million, the majority of which is with investment grade customers as seen in the following table that presents the distribution of credit exposure at September 30, 2021. Credit collateral includes cash and letters of credit but excludes other credit enhancements such as guarantees or liens on assets.

	Befo	xposure ore Credit ollateral	Credit Collateral	Net Exposure
Investment grade	\$	379	\$ 46	\$ 333
Below investment grade or no rating		295	9	286
Totals	\$	674	\$ 55	\$ 619

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At September 30, 2021, we had no concentration (*i.e.*, 10% or greater) of credit exposure with any counterparties. An event of default by one or more counterparties could subsequently result in termination-related settlement payments that reduce available liquidity if amounts such as margin deposits are owed to the counterparties or delays in receipts of expected settlements owed to us.

Contracts classified as "normal" purchase or sale and non-derivative contractual commitments are not marked-to-market in the financial statements and are excluded from the detail above. Such contractual commitments may contain pricing that is favorable considering current market conditions and therefore represent economic risk if the counterparties do not perform.

FORWARD-LOOKING STATEMENTS

This report and other presentations made by us contain "forward-looking statements." All statements, other than statements of historical facts, that are included in this report, or made in presentations, in response to questions or otherwise, that address activities, events or developments that may occur in the future, including (without limitation) such matters as activities related to our financial or operational projections, capital allocation, capital expenditures, liquidity, dividend policy, business strategy, competitive strengths, goals, future acquisitions or dispositions, development or operation of power generation assets, market and industry developments and the growth of our businesses and operations (often, but not always, through the use of words or phrases such as "intends," "plans," "will likely," "unlikely," "expected," "anticipated," "estimated," "should," "may," "projection," "target," "goal," "objective" and "outlook"), are forward-looking statements. Although we believe that in making any such forward-looking statement our expectations are based on reasonable assumptions, any such forward-looking statement involves uncertainties and risks and is qualified in its entirety by reference to the discussion under Part II, Item 1A *Risk Factors* and Part I, Item 2 *Management's Discussion and Analysis of Financial Condition and Results of Operations* in this quarterly report on Form 10-Q and the following important factors, among others, that could cause our actual results to differ materially from those projected in or implied by such forward-looking statements:

- the actions and decisions of judicial and regulatory authorities;
- prohibitions and other restrictions on our operations due to the terms of our agreements;
- prevailing federal, state and local governmental policies and regulatory actions, including those of the legislatures and other government actions of states in which we operate, the U.S. Congress, the FERC, the NERC, the TRE, the public utility commissions of states and locales in which we operate, CAISO, ERCOT, ISO-NE, MISO, NYISO, PJM, the RCT, the NRC, the EPA, the environmental regulatory bodies of states in which we operate, the MSHA and the CFTC, with respect to, among other things:
 - allowed prices;
 - industry, market and rate structure;
 - purchased power and recovery of investments;
 - operations of nuclear generation facilities;
 - operations of fossil-fueled generation facilities;
 - operations of mines;
 - acquisition and disposal of assets and facilities;
 - development, construction and operation of facilities;
 - decommissioning costs;
 - present or prospective wholesale and retail competition;
 - changes in federal, state and local tax laws, rates and policies, including additional regulation, interpretations, amendments, or technical corrections to The Tax Cuts and Jobs Act of 2017;
 - changes in and compliance with environmental and safety laws and policies, including the Coal Combustion Residuals Rule, National Ambient Air Quality Standards, the Cross-State Air Pollution Rule, the Mercury and Air Toxics Standard, regional haze program implementation and GHG and other climate change initiatives, and
 - clearing over-the-counter derivatives through exchanges and posting of cash collateral therewith;
- expectations regarding, or impacts of, environmental matters, including costs of compliance, availability and adequacy of emission credits, and
 the impact of ongoing proceedings and potential regulations or changes to current regulations, including those relating to climate change, air
 emissions, cooling water intake structures, coal combustion byproducts, and other laws and regulations that we are, or could become, subject to,
 which could increase our costs, result in an impairment of our assets, cause us to limit or terminate the operation of certain of our facilities, or
 otherwise negatively impact our financial results or stock price;
- · legal and administrative proceedings and settlements;
- general industry trends;
- economic conditions, including the impact of any recession or economic downturn;
- investor sentiment relating to climate change and utilization of fossil fuels in connection with power generation could reduce demand for, or increase potential volatility in the market price of, our common stock;
- the severity, magnitude and duration of pandemics, including the COVID-19 pandemic, and the resulting effects on our results of operations, financial condition and cash flows;
- the severity, magnitude and duration of extreme weather events (including Winter Storm Uri), drought and limitations on access to water, and
 other weather conditions and natural phenomena, contingencies and uncertainties relating thereto, most of which are difficult to predict and many
 of which are beyond our control, and the resulting effects on our results of operations, financial condition and cash flows;
- acts of sabotage, wars or terrorist or cybersecurity threats or activities;
- · risk of contract performance claims by us or our counterparties, and risks of, or costs associated with, pursuing or defending such claims;

- our ability to collect trade receivables from counterparties in the amount or at the time expected, if at all;
- our ability to attract, retain and profitably serve customers;
- restrictions on competitive retail pricing or direct-selling businesses;
- adverse publicity associated with our retail products or direct selling businesses, including our ability to address the marketplace and regulators regarding our compliance with applicable laws;
- changes in wholesale electricity prices or energy commodity prices, including the price of natural gas;
- changes in prices of transportation of natural gas, coal, fuel oil and other refined products;
- · sufficiency of, access to, and costs associated with coal, fuel oil, and natural gas inventories and transportation and storage thereof;
- · changes in the ability of vendors to provide or deliver commodities as needed;
- beliefs and assumptions about the benefits of state- or federal-based subsidies to our market competition, and the corresponding impacts on us, including if such subsidies are disproportionately available to our competitors;
- · the effects of, or changes to, market design and the power and capacity procurement processes in the markets in which we operate;
- · changes in market heat rates in the CAISO, ERCOT, ISO-NE, MISO, NYISO and PJM electricity markets;
- our ability to effectively hedge against unfavorable commodity prices, including the price of natural gas, market heat rates and interest rates;
- · population growth or decline, or changes in market supply or demand and demographic patterns, particularly in ERCOT, MISO and PJM;
- our ability to mitigate forced outage risk, including managing risk associated with Capacity Performance in PJM and performance incentives in ISO-NE:
- · efforts to identify opportunities to reduce congestion and improve busbar power prices;
- access to adequate transmission facilities to meet changing demands;
- changes in interest rates, commodity prices, rates of inflation or foreign exchange rates;
- changes in operating expenses, liquidity needs and capital expenditures;
- · commercial bank market and capital market conditions and the potential impact of disruptions in U.S. and international credit markets;
- access to capital, the attractiveness of the cost and other terms of such capital and the success of financing and refinancing efforts, including availability of funds in capital markets;
- · our ability to maintain prudent financial leverage and achieve our capital allocation, performance, and cost-saving initiatives and objectives;
- our ability to generate sufficient cash flow to make principal and interest payments in respect of, or refinance, our debt obligations;
- our expectation that we will continue to pay a comparable cash dividend on a quarterly basis;
- our ability to implement and successfully execute upon our strategic and growth initiatives, including the completion and integration of mergers, acquisitions and/or joint venture activity, the identification and completion of sales and divestitures activity, and the completion and commercialization of our other business development and construction projects;
- competition for new energy development and other business opportunities;
- inability of various counterparties to meet their obligations with respect to our financial instruments;
- counterparties' collateral demands and other factors affecting our liquidity position and financial condition;
- changes in technology (including large scale electricity storage) used by and services offered by us;
- changes in electricity transmission that allow additional power generation to compete with our generation assets;
- our ability to attract and retain qualified employees;
- significant changes in our relationship with our employees, including the availability of qualified personnel, and the potential adverse effects if labor disputes or grievances were to occur or changes in laws or regulations relating to independent contractor status;
- changes in assumptions used to estimate costs of providing employee benefits, including medical and dental benefits, pension and other
 postretirement employee benefits, and future funding requirements related thereto, including joint and several liability exposure under ERISA;
- hazards customary to the industry and the possibility that we may not have adequate insurance to cover losses resulting from such hazards;
- · the impact of our obligations under the TRA;
- our ability to optimize our assets through targeted investment in cost-effective technology enhancements and operations performance initiatives;
- our ability to effectively and efficiently plan, prepare for and execute expected asset retirements and reclamation obligations and the impacts thereof:
- our ability to successfully complete the integration of businesses acquired by Vistra and our ability to successfully capture the full amount of projected operational and financial synergies relating to such transactions, and

actions by credit rating agencies.

Any forward-looking statement speaks only at the date on which it is made, and except as may be required by law, we undertake no obligation to update any forward-looking statement to reflect events or circumstances after the date on which it is made or to reflect the occurrence of unanticipated events or circumstances. New factors emerge from time to time, and it is not possible for us to predict them. In addition, we may be unable to assess the impact of any such event or condition or the extent to which any such event or condition, or combination of events or conditions, may cause results to differ materially from those contained in or implied by any forward-looking statement. As such, you should not unduly rely on such forward-looking statements.

INDUSTRY AND MARKET INFORMATION

Certain industry and market data and other statistical information used throughout this report are based on independent industry publications, government publications, reports by market research firms or other published independent sources, including certain data published by CAISO, ERCOT, ISO-NE, MISO, NYISO, PJM, the environmental regulatory bodies of states in which we operate and NYMEX. We did not commission any of these publications, reports or other sources. Some data is also based on good faith estimates, which are derived from our review of internal surveys, as well as the independent sources listed above. Industry publications, reports and other sources generally state that they have obtained information from sources believed to be reliable, but do not guarantee the accuracy and completeness of such information. While we believe that each of these studies, publications, reports and other sources is reliable, we have not independently investigated or verified the information contained or referred to therein and make no representation as to the accuracy or completeness of such information. Forecasts are particularly likely to be inaccurate, especially over long periods of time, and we do not know what assumptions were used in preparing such forecasts. Statements regarding industry and market data and other statistical information used throughout this report involve risks and uncertainties and are subject to change based on various factors.

Item 4. CONTROLS AND PROCEDURES

An evaluation was performed under the supervision and with the participation of our management, including the principal executive officer and principal financial officer, of the effectiveness of the design and operation of the disclosure controls and procedures (as such term is defined in Rules 13a-15(e) and 15a-15(e) of the Exchange Act) in effect at September 30, 2021. Based on the evaluation performed, our principal executive officer and principal financial officer concluded that the disclosure controls and procedures were effective. During the fiscal quarter covered by this quarterly report on Form 10-Q, there have been no changes in our internal control over financial reporting (as such term is defined in Rules 13a-15(e) and 15a-15(e) of the Exchange Act) that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II. OTHER INFORMATION

Item 1. LEGAL PROCEEDINGS

Reference is made to the discussion in Note 11 to the Financial Statements regarding legal proceedings.

Item 1A. RISK FACTORS

There have been no material changes to the risk factors discussed in Part I, Item 1A Risk Factors in our 2020 Form 10-K, except as set forth below.

Holders of our preferred stock may have interests and rights that are different from our common stockholders.

We are permitted under our certificate of incorporation to issue up to 100,000,000 shares of preferred stock. We can issue shares of our preferred stock in one or more series and can set the terms of the preferred stock without seeking any further approval from our common stockholders. Any preferred stock that we issue may rank ahead of our common stock in terms of dividend priority or liquidation premiums and may have greater voting rights than our common stock, which could dilute the value of our common stock to current stockholders and could adversely affect the market price of our common stock. As of October 15, 2021 (Initial Issuance Date), 1,000,000 shares of Series A Preferred Stock are issued and outstanding. The Series A Preferred Stock represents a perpetual equity interest in the Company and, unlike our indebtedness, will not give rise to a claim for payment of a principal amount at a particular date; *provided*, the Company may redeem the Series A Preferred Stock at the specified times (or upon certain specified events) at the applicable redemption price set forth in the certificate of designation of the Series A Preferred Stock (Certificate of Designation). The Series A Preferred Stock is not convertible into or exchangeable for any other securities of the Company. Upon the liquidation, dissolution or winding up of the Company, whether voluntary or involuntary, after payment or provision for payment of the debts and other liabilities of the Company, the holders of Series A Preferred Stock will be entitled to receive, pro rata and in preference to the holders of any other capital stock, an amount per share equal to \$1,000 plus accrued and unpaid dividends thereon, if any.

Unless we have received the affirmative vote or consent of the holders of at least two-thirds of the outstanding Series A Preferred Stock, voting as a separate class, we may not adopt any amendment to our certificate of incorporation (including the Certificate of Designation) that would have a material adverse effect on the powers, preferences, duties, or special rights of the Series A Preferred Stock, subject to certain exceptions. In addition, unless we have received the affirmative vote or consent of the holders of at least two-thirds of the outstanding Series A Preferred Stock, voting as a class together with the holders of any parity securities upon which like voting rights have been conferred and are exercisable, we may not: (i) create or issue any senior securities, (ii) create or issue any parity securities (including any additional Series A Preferred Stock) if the cumulative dividends payable on the outstanding Series A Preferred Stock (or parity securities, if applicable) are in arrears; (iii) create or issue any additional Series A Preferred Stock or any parity securities with an aggregate liquidation preference, together with the issued and outstanding Series A Preferred Stock and any parity securities that are then outstanding, of greater than \$2.5 billion, and (iv) engage in any Transaction that results in a Covered Disposition (as such terms are defined in the Certificate of Designation).

In addition, holders of the Series A Preferred Stock are entitled to receive, when, as, and if declared by our Board, semi-annual cash dividends on the Series A Preferred Stock, which are cumulative from the Initial Issuance Date and payable in arrears, and unless full cumulative dividends have been or contemporaneously are being paid or declared on the Series A Preferred Stock, we may not (i) declare or pay any dividends on any junior securities, including our common stock, or (ii) redeem or repurchase any parity securities or junior securities, subject to limited exceptions set forth in the Certificate of Designation. The holders of Series A Preferred Stock (along with any parity securities then outstanding with similar rights) are also entitled to elect two additional directors in the event any dividends on Series A Preferred Stock are in arrears for three or more semi-annual dividend periods (whether or not consecutive), and such directors may have competing and different interests to those elected by our common stockholders. The dividend rate for the Series A Preferred Stock from and including the Initial Issuance Date until October 15, 2026 (First Reset Date) will be 8.0% per annum of the \$1,000 liquidation preference per share of Series A Preferred Stock. On and after the First Reset Date, the dividend rate on the Series A Preferred Stock for each subsequent five-year period (each, a Reset Period) will be adjusted based upon the applicable Treasury rate, plus a spread of 6.93% per annum; provided that the applicable Treasury rate for each Reset Period will not be lower than 1.07%. In the event that the Company does not exercise its option to redeem all the shares of Series A Preferred Stock within 120 days after the first date on which a Change of Control Trigger Event (as defined in the Certificate of Designation) occurs, the then-applicable dividend rate for the Series A Preferred Stock will be increased by 5.00%.

Item 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

The following table provides information about our repurchase of equity securities that are registered by us pursuant to Section 12 of the Exchange Act, as amended, during the quarter ended September 30, 2021.

	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of a Publicly Announced Program
July 1 - July 31, 2021	_	\$ —	_
August 1 - August 31, 2021	_	\$ —	_
September 1 - September 30, 2021	_	\$ —	_
For the quarter ended September 30, 2021		\$ —	

In October 2021, we announced that the Board had authorized a new share repurchase program (Share Repurchase Program) under which up to \$2.0 billion of our outstanding common stock may be repurchased. The Share Repurchase Program became effective on October 11, 2021. The Share Repurchase Program supersedes the \$1.5 billion share repurchase program previously announced in September 2020, which had \$1.325 billion of remaining authorization as of September 30, 2021. As an initial step in our broader capital allocation plan, we intend to use the net proceeds from our October 2021 preferred stock offering to repurchase shares of our outstanding common stock. We expect to complete repurchases under the Share Repurchase Program by the end of 2022.

Under the Share Repurchase Program, any purchases of shares of the Company's stock may be repurchased from time to time in open market transactions at prevailing market prices, in privately negotiated transactions, pursuant to plans complying with the Exchange Act or by other means in accordance with federal securities laws. The actual timing, number and value of shares repurchased under the Share Repurchase Program or otherwise will be determined at our discretion and will depend on a number of factors, including our capital allocation priorities, the market price of our stock, general market and economic conditions, applicable legal requirements and compliance with the terms of our debt agreements.

See Note 12 to the Financial Statements for more information concerning the Share Repurchase Program.

Item 3. DEFAULTS UPON SENIOR SECURITIES

None.

Item 4. MINE SAFETY DISCLOSURES

Vistra currently owns and operates, or is in the process of reclaiming, 12 surface lignite coal mines in Texas to provide fuel for its electricity generation facilities. Vistra also owns or leases, and is in the process of reclaiming, two waste-to-energy surface facilities in Pennsylvania. These mining operations are regulated by the MSHA under the Federal Mine Safety and Health Act of 1977, as amended (the Mine Act), as well as other federal and state regulatory agencies such as the RCT and Office of Surface Mining. The MSHA inspects U.S. mines, including Vistra's mines, on a regular basis, and if it believes a violation of the Mine Act or any health or safety standard or other regulation has occurred, it may issue a citation or order, generally accompanied by a proposed fine or assessment. Such citations and orders can be contested and appealed, which often results in a reduction of the severity and amount of fines and assessments and sometimes results in dismissal. Disclosure of MSHA citations, orders and proposed assessments are provided in Exhibit 95.1 to this quarterly report on Form 10-Q.

Item 5. OTHER INFORMATION

None.

Item 6. EXHIBITS

(a) Exhibits filed or furnished as part of Part II are:

Exhibits	Previously Filed With File Number*	As Exhibit		
(3(i))	Articles of Incorporation		•	
3.1	0001-38086 Form 8-K (filed May 4, 2020)	3.1	_	Restated Certificate of Incorporation of Vistra Energy Corp. (now known as Vis Corp.)
3.2	0001-38086 Form 8-K (filed June 29, 2020)	3.1	_	Certificate of Amendment of the Restated Certificate of Incorporation of Vis Energy Corp. (now known as Vistra Corp.), effective July 2, 2020
3.3	0001-38086 Form 8-K (filed October 15, 2021)	3.1	_	Series A Preferred Stock Certificate of Designation, filed with the Secretary State of Delaware on October 14, 2021
(3(ii))	By-laws			
3.3	001-38086 Form 10-K (Year ended December 31, 2020) (filed February 23, 2021)	3.3	_	Restated Bylaws of Vistra Corp., effective February 23, 2021
(4)	Instruments Defining the Rights of	Security H	olders,	Including Indentures
4.1	0001-38086 Form 8-K (filed July 15, 2021)	4.1	_	Tenth Amendment to Receivables Purchase Agreement, dated as of July 9, 202 among TXU Energy Receivables Company LLC, as seller, TXU Energy Ret Company LLC, as servicer, Vistra Operations Company LLC, as performan guarantor, certain purchaser agents and purchasers named therein and Cree Agricole Corporate and Investment Bank, as administrator
4.2	**		_	Eleventh Amendment to Receivables Purchase Agreement, dated as of July 1 2021, among TXU Energy Receivables Company LLC, as seller, TXU Energe Retail Company LLC, as servicer, Vistra Operations Company LLC, performance guarantor, certain purchaser agents and purchasers named there and Credit Agricole Corporate and Investment Bank, as administrator
4.3	**		_	Seventh Supplemental Indenture for the 5.500% Senior Notes due 2026, dat July 29, 2021, among the Guaranteeing Subsidiaries, the Company, the Subsidiar Guarantors and the Trustee
4.4	**		_	Seventh Supplemental Indenture for the 5.625% Senior Notes due 2026, dat July 29, 2021, among the Guaranteeing Subsidiaries, the Company, the Subsidiar Guarantors and the Trustee
4.5	**		_	Seventh Supplemental Indenture for the 5.000% Senior Notes due 2027, dat July 29, 2021, among the Guaranteeing Subsidiaries, the Company, the Subsidiar Guarantors and the Trustee
4.6	**		_	Ninth Supplemental Indenture for the 3.55% Senior Secured Notes due 2023.70% Senior Secured Notes due 2027 and 4.30% Senior Secured Notes due 2029, dated as of July 29, 2021, among Vistra Operations Company LLC, Issuer, the Guaranteeing Subsidiaries, the Subsidiary Guarantors and the Trustee
4.7	**		_	First Supplemental Indenture for the 4.375% Senior Notes due 2029, dated July 29, 2021, among Vistra Operations Company LLC, as Issuer, the Guaranteei Subsidiaries, the Subsidiary Guarantors and the Trustee

Exhibits	Previously Filed With File Number*	As Exhibit		
(10)	Material Contracts			
10.1	0001-38086 Form 8-K (filed July 15, 2021)	10.1	_	Amendment No. 1 to Master Framework Agreement, dated as of July 9, 2021, by and among TXU Energy Retail Company LLC, as seller and seller party agent, certain originators name therein, Vistra Operations Company LLC, as guarantor, and MUFG Bank, Ltd., as buyer
10.2	**		_	Amendment No. 2 to Master Framework Agreement, dated as of August 3, 2021, by and among TXU Energy Retail Company LLC, as seller and seller party agent, certain originators name therein, Vistra Operations Company LLC, as guarantor, and MUFG Bank, Ltd., as buyer
10.3	**		_	Amendment No. 1 to Master Repurchase Agreement, dated as of August 3, 2021, between TXU Energy Retail Company LLC and MUFG Bank, Ltd.
10.4	0001-38086 Form 8-K (filed October 15, 2021)	10.1	_	<u>Purchase Agreement, dated October 12, 2021, by and between Vistra Corp. and Goldman Sachs & Co. LLC</u>
(31)	Rule 13a-14(a) / 15d-14(a) Certifica	tions		
31.1	**		_	<u>Certification of Curtis A. Morgan, principal executive officer of Vistra Corp., pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u>
31.2	**		_	<u>Certification of James A. Burke, principal financial officer of Vistra Corp., pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u>
(32)	Section 1350 Certifications			
32.1	***		_	Certification of Curtis A. Morgan, principal executive officer of Vistra Corp., pursuant to U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
32.2	***		_	Certification of James A. Burke, principal financial officer of Vistra Corp., pursuant to U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002
(95)	Mine Safety Disclosures			
95.1	**		_	Mine Safety Disclosures
	XBRL Data Files			
101.INS	**		_	The following financial information from Vistra Corp.'s Quarterly Report on Form 10-Q for the period ended September 30, 2021 formatted in Inline XBRL (Extensible Business Reporting Language) includes: (i) the Condensed Consolidated Statements of Operations, (ii) the Condensed Consolidated Statements of Comprehensive Income (Loss), (iii) the Condensed Consolidated Statements of Cash Flows, (iv) the Condensed Consolidated Balance Sheets and (v) the Notes to the Condensed Consolidated Financial Statements
101.SCH	**		_	XBRL Taxonomy Extension Schema Document
101.CAL	**		_	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF	**		_	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB	**		_	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	**		_	XBRL Taxonomy Extension Presentation Linkbase Document

	- Previously Filed With File Number* ** ted herein by reference	As Exhibit	- —	The Cover Page Interactive Data File does not appear in Exhibit 104 because its XBRL tags are embedded within the Inline XBRL document
** Filed her	rewith ned herewith			
				84
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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

Vistra Corp.

By: /s/ CHRISTY DOBRY

Name: Christy Dobry

Title: Senior Vice President and Controller

(Principal Accounting Officer)

Date: November 5, 2021

ELEVENTH AMENDMENT TO RECEIVABLES PURCHASE AGREEMENT

This ELEVENTH AMENDMENT (this "Amendment"), dated as of July 16, 2021, is among TXU ENERGY RECEIVABLES COMPANY LLC, a Delaware limited liability company, as seller (the "Seller"), TXU ENERGY RETAIL COMPANY LLC, a Texas limited liability company ("TXU"), as servicer (in such capacity, together with its successors and permitted assigns in such capacity, the "Servicer"), CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK, a national banking association ("CACIB"), as Administrator (in such capacity, together with its successors and permitted assigns in such capacity, the "Administrator"), the PURCHASERS and PURCHASER AGENTS from time to time party to the Agreement (the "Purchasers") and VISTRA OPERATIONS COMPANY LLC, a Delaware limited liability company ("Vistra"), as Performance Guarantor. Capitalized terms used but not otherwise defined herein have the respective meanings assigned thereto in the Agreement (as defined below).

RECITALS

WHEREAS, the parties hereto are parties to the Receivables Purchase Agreement, dated as of August 21, 2018 (as amended, restated, supplemented or otherwise modified through the date hereof, the "**Agreement**"); and

WHEREAS, the parties hereto desire to amend the Agreement as hereinafter set forth.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

AGREEMENT

SECTION 1. Amendments to the Agreement. The Agreement is hereby amended as follows:

- 1.1 <u>Exhibit I</u> of the Agreement is amended by adding the following new defined terms in alphabetical order:
 - "Subject Receivable" means any Receivable for which the related Obligor is identified in the Information Package as BP xxxx2224.
 - "Subject Receivables Holiday Period" means the period commencing on June 1, 2021 and ending on January 31, 2022.
- 1.2 The definition of "*Days*' *Sales Outstanding*" set forth in <u>Exhibit I</u> of the Agreement is amended by adding the following proviso at the end thereof:

- ; <u>provided</u>, that each Subject Receivable shall be excluded from Days' Sales Outstanding (and any calculation thereof) at any time of determination during the Subject Receivables Holiday Period.
- 1.3 The definition of "*Default Ratio*" set forth in <u>Exhibit I</u> of the Agreement is amended by adding the following proviso at the end thereof:
 - ; <u>provided</u>, that each Subject Receivable shall be excluded from the Default Ratio (and any calculation thereof) at any time of determination during the Subject Receivables Holiday Period.
- 1.4 The definition of "*Delinquency Ratio*" set forth in <u>Exhibit I</u> of the Agreement is amended by adding the following proviso at the end thereof:
 - ; <u>provided</u>, that each Subject Receivable shall be excluded from the Delinquency Ratio (and any calculation thereof) at any time of determination during the Subject Receivables Holiday Period.
- 1.5 The definition of "*Dilution Horizon Ratio*" set forth in <u>Exhibit I</u> of the Agreement is amended by adding the following proviso at the end thereof:
 - ; <u>provided</u>, that each Subject Receivable shall be excluded from the Dilution Horizon Ratio (and any calculation thereof) at any time of determination during the Subject Receivables Holiday Period.
- 1.6 The definition of "*Dilution Ratio*" set forth in <u>Exhibit I</u> of the Agreement is amended by adding the following proviso at the end thereof:
 - ; <u>provided</u>, that each Subject Receivable shall be excluded from the Dilution Ratio (and any calculation thereof) at any time of determination during the Subject Receivables Holiday Period.
- 1.7 The definition of "Eligible Receivable" set forth in Exhibit I of the Agreement is amended by (i) adding the parenthetical "(such percentage determined without regard to any Subject Receivable owing by such Obligor)" at the end of clause (p) thereof, (ii) deleting the word "and" at the end of clause (u) thereof, (iii) deleting the period "." at the end of the final sentence of clause (u) thereof and substituting "; and" thereof and (iv) adding the following new clause (w):
 - (w) that is not a Subject Receivable.

SECTION 2. Conditions to Effectiveness. This Amendment shall become effective as of the date hereof, provided that neither the Facility Termination Date nor a Termination Event or Unmatured Termination Event has occurred and subject to the condition precedent that the Administrator shall have received counterparts of this Amendment (whether by facsimile or otherwise) duly executed and dated as of the date hereof (or such other date satisfactory to the Administrator) by each of the parties hereto, in form and substance satisfactory to the Administrator.

SECTION 3. Representations and Warranties.

Each of the Seller and the Servicer, as applicable, hereby represents and warrants to each Purchaser, each Purchaser Agent and the Administrator as follows:

- (a) <u>Representations and Warranties</u>. The representations and warranties contained in <u>Exhibit</u> <u>III</u> of the Agreement are true and correct as of the date hereof (unless stated to relate solely to an earlier date, in which case such representations or warranties were true and correct as of such earlier date).
- (b) Enforceability. The execution and delivery by each of the Seller and the Servicer of this Amendment, and the performance of each of its obligations under this Amendment and the Agreement, as amended hereby, are (i) within each of its organizational powers and have been duly authorized by all necessary action on each of its parts, (ii) do not contravene or result in a default under or conflict with (A) its constitutional documents; (B) any law, rule or regulation applicable to it except where such contravention, default or conflict would not have a Material Adverse Effect; (C) any indenture, loan agreement, mortgage, deed of trust or other material agreement or instrument to which it is a party or by which it is bound; or (D) any order, writ, judgment, award, injunction or decree binding on or affecting it or any of its property; and (iii) do not result in or require the creation of any Adverse Claim upon or with respect to any of its properties except under the Transaction Documents. This Amendment and the Agreement, as amended hereby, are each of the Seller's and the Servicer's valid and legally binding obligations, enforceable in accordance with its terms.
- (c) <u>No Default</u>. Immediately after giving effect to this Amendment and the transactions contemplated hereby and thereby, no Termination Event or Unmatured Termination Event exists or shall exist and the Purchased Interest shall not exceed 100%.

SECTION 4. Effect of Amendment; Ratification. Except as specifically amended hereby, the Agreement is hereby ratified and confirmed in all respects, and all of its provisions shall remain in full force and effect. After this Amendment becomes effective, all references in the Agreement (or in any other Transaction Document) to "the Receivables Purchase Agreement", "this Agreement", "hereof", "herein", or words of similar effect, in each case referring to the Agreement, shall be deemed to be references to the Agreement as amended hereby. This Amendment shall not be deemed to expressly or impliedly waive, amend, or supplement any provision of the Agreement other than as specifically set forth herein.

SECTION 5. Reaffirmation of Performance Guaranty. After giving effect to this Amendment and each of the other transactions contemplated hereby, all of the provisions of the Performance Guaranty shall remain in full force and effect and Vistra hereby ratifies and affirms the Performance Guaranty and acknowledges that the Performance Guaranty has continued and shall continue in full force and effect in accordance with its terms.

SECTION 6. Counterparts. This Amendment may be executed in any number of counterparts (including in PDF or similar electronic format by facsimile or e-mail transmission), each of which, when so executed, shall be deemed to be an original, and all of which, when taken together, shall constitute one and the same agreement.

SECTION 7. Governing Law. THIS AMENDMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK (WITHOUT REFERENCE TO ITS CONFLICTS OF LAW PROVISIONS (OTHER THAN §5- 1401 AND §5-1402 OF THE NEW YORK GENERAL OBLIGATIONS LAW, WHICH SHALL APPLY HERETO).

SECTION 8. <u>Section Headings</u>. The various headings of this Amendment are inserted for convenience only and shall not affect the meaning or interpretation of this Amendment or the Agreement or any provision hereof or thereof.

SECTION 9. <u>Successors and Assigns</u>. This Amendment shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns.

SECTION 10. Severability. If any one or more of the agreements, provisions or terms of this Amendment shall for any reason whatsoever be held invalid or unenforceable, then such agreements, provisions or terms shall be deemed severable from the remaining agreements, provisions and terms of this Amendment and shall in no way affect the validity or enforceability of the provisions of this Amendment or the Agreement.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the parties have executed this Amendment as of the date first written above.

TXU ENERGY RECEIVABLES COMPANY LLC, as Seller

By: <u>/s/ KRISTOPHER E. MOLDOVAN</u>

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

TXU ENERGY RETAIL COMPANY LLC, in its

individual capacity and as Servicer

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

VISTRA OPERATIONS COMPANY LLC, as

Performance Guarantor

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

CREDIT AGRICOLE CORPORATE AND **INVESTMENT BANK,** as Administrator

By: /s/ KONSTANTINA KOURMPETIS

Name: Konstantina Kourmpetis Title: Managing Director

By: <u>/s/ RICHARD MCBRIDE</u>
Name: Richard McBride

Title: Director

CACIB PURCHASER GROUP:

CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK, as Purchaser Agent

By: /s/ KONSTANTINA KOURMPETIS

Name: Konstantina Kourmpetis

Title: Managing Director

By: <u>/s/ RICHARD MCBRIDE</u>

Name: Richard McBride

Title: Director

CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK, as Committed Purchaser

By: /s/ KONSTANTINA KOURMPETIS

Name: Konstantina Kourmpetis

Title: Managing Director

By: /s/ RICHARD MCBRIDE

Name: Richard McBride

Title: Director

ATLANTIC ASSET SECURITIZATION LLC,

as Conduit Purchaser

By: /s/ KONSTANTINA KOURMPETIS

Name: Konstantina Kourmpetis Title: Managing Director

By: /s/ RICHARD MCBRIDE

Name: Richard McBride

Title: Director

RBC PURCHASER GROUP:

ROYAL BANK OF CANADA, as Purchaser Agent

By: /s/ VERONICA L. GALLAGHER

Name: Veronica L. Gallagher Title: Authorized Signatory

ROYAL BANK OF CANADA, as Committed Purchaser

By: /s/ JANINE D. MARSINI

Name: Janine D. Marsini Title: Authorized Signatory

By: /s/ VERONICA L. GALLAGHER

Name: Veronica L. Gallagher Title: Authorized Signatory

THUNDER BAY FUNDING, LLC,

as Conduit Purchaser

By: /s/ JANINE D. MARSINI

Name: Janine D. Marsini Title: Authorized Signatory

MUFG PURCHASER GROUP:

MUFG BANK, LTD., as Purchaser Agent

By: <u>/s/ ERIC WILLIAMS</u>
Name: Eric Williams
Title: Managing Director

MUFG BANK, LTD., as Committed Purchaser

By: <u>/s/ ERIC WILLIAMS</u>
Name: Eric Williams
Title: Managing Director

GOTHAM FUNDING CORPORATION,

as Conduit Purchaser

By: /s/ KEVIN J. CORRIGAN
Name: Kevin J. Corrigan
Title: Vice President

SEVENTH SUPPLEMENTAL INDENTURE SUBSIDIARY GUARANTEES

SEVENTH SUPPLEMENTAL INDENTURE (this "**Supplemental Indenture**"), dated as of July 29, 2021, among the subsidiary guarantor listed on <u>Schedule I</u> hereto (the "**Guaranteeing Subsidiary**"), Vistra Operations Company LLC, a Delaware limited liability company (the "**Company**"), the other subsidiary guarantors party hereto and Wilmington Trust, National Association, as trustee under the indenture referred to below (the "**Trustee**").

WITNESSETH

WHEREAS, the Company has heretofore executed and delivered to the Trustee that certain Indenture (as supplemented and amended, the "**Indenture**"), dated as of August 22, 2018, among the Company, the Subsidiary Guarantors party thereto and the Trustee, providing for the original issuance of an aggregate principal amount of \$1,000,000,000 of 5.500% Senior Notes due 2026 (the "**Notes**");

WHEREAS, the Indenture provides that under certain circumstances the Guaranteeing Subsidiary shall execute and deliver to the Trustee a supplemental indenture pursuant to which the Guaranteeing Subsidiary shall unconditionally guarantee all of the Company's Obligations under the Notes and the Indenture (the "Subsidiary Guarantees"); and

WHEREAS, pursuant to Sections 4.07 and 9.01 of the Indenture, the Trustee, the Company and the other Subsidiary Guarantors are authorized and required to execute and deliver this Supplemental Indenture.

NOW THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt of which is hereby acknowledged, the Guaranteeing Subsidiary, the Trustee, the Company and the other Subsidiary Guarantors mutually covenant and agree for the equal and ratable benefit of the Holders of the Notes as follows:

- 1. *Capitalized Terms*. Unless otherwise defined in this Supplemental Indenture, capitalized terms used herein without definition shall have the meanings assigned to them in the Indenture.
- 2. Agreement to be Bound; Guarantee. The Guaranteeing Subsidiary hereby becomes a party to the Indenture as a Subsidiary Guarantor and as such will have all of the rights and be subject to all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. The Guaranteeing Subsidiary hereby agrees to be bound by all of the provisions of the Indenture applicable to a Subsidiary Guarantor and to perform all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. In furtherance of the foregoing, the Guaranteeing Subsidiary shall be deemed a Subsidiary Guarantor for purposes of Article 10 of the Indenture, including, without limitation, Section 10.02 thereof.

- 3. NEW YORK LAW TO GOVERN. THIS SUPPLEMENTAL INDENTURE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.
- 4. *Counterparts*. The parties may sign any number of copies of this Supplemental Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.
 - 5. *Effect of Headings*. The Section headings herein are for convenience only and shall not affect the construction hereof.
- 6. *The Trustee*. The Trustee shall not be responsible in any manner whatsoever for or in respect of the validity or sufficiency of this Supplemental Indenture or for or in respect of the recitals contained herein, all of which recitals are made solely by the Guaranteeing Subsidiary and the Company.
- 7. *Ratification of Indenture;* Supplemental Indenture Part of Indenture. Except as expressly amended hereby, the Indenture is in all respects ratified and confirmed and all the terms, conditions and provisions thereof shall remain in full force and effect. This Supplemental Indenture shall form a part of the Indenture for all purposes, and every Holder of Notes heretofore or hereafter authenticated and delivered shall be bound hereby.

[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed and attested, all as of the date first written above.

VIRIDIAN INTERNATIONAL MANAGEMENT LLC,

as the Guaranteeing Subsidiary

By: <u>/s/ Kristopher E. Moldovan</u>

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[Signature Page to Seventh Supplemental Indenture]

VISTRA OPERATIONS COMPANY LLC,

as the Company

By: <u>/s/ Kristopher E. Moldovan</u>
Name: Kristopher E. Moldovan
Title: Senior Vice President and Treasurer

[Signature Page to Seventh Supplemental Indenture]

AMBIT CALIFORNIA, LLC
AMBIT ENERGY HOLDINGS, LLC

AMBIT HOLDINGS, LLC
AMBIT ILLINOIS, LLC
AMBIT MARKETING, LLC
AMBIT MIDWEST, LLC
AMBIT NEW YORK, LLC
AMBIT NORTHEAST, LLC
AMBIT TEXAS, LLC

BELLINGHAM POWER GENERATION LLC
BIG BROWN POWER COMPANY LLC

BIG SKY GAS, LLC

BIG SKY GAS HOLDINGS, LLC

BLACKSTONE POWER GENERATION LLC

BLUENET HOLDINGS, LLC
BRIGHTSIDE SOLAR, LLC
CALUMET ENERGY TEAM, LLC
CASCO BAY ENERGY COMPANY, LLC
CINCINNATI BELL ENERGY LLC

COFFEEN AND WESTERN RAILROAD COMPANY

COLETO CREEK POWER, LLC

COLETO CREEK ENERGY STORAGE LLC COMANCHE PEAK POWER COMPANY LLC

CORE SOLAR SPV I, LLC CRIUS ENERGY, LLC CRIUS ENERGY CORPORATION

CRIUS ENERGY CORPORATION
CRIUS SOLAR FULFILLMENT, LLC
DALLAS POWER & LIGHT COMPANY, INC.
DICKS CREEK POWER COMPANY LLC

DYNEGY COAL HOLDCO, LLC

DYNEGY COAL TRADING & TRANSPORTATION, L.L.C.

DYNEGY CONESVILLE, LLC

DYNEGY ENERGY SERVICES (EAST), LLC DYNEGY ENERGY SERVICES, LLC

DYNEGY KILLEN, LLC

DYNEGY MARKETING AND TRADE, LLC DYNEGY MIDWEST GENERATION, LLC DYNEGY OPERATING COMPANY DYNEGY POWER MARKETING, LLC

DYNEGY RESOURCES GENERATING HOLDCO, LLC

DYNEGY SOUTH BAY, LLC
DYNEGY STUART, LLC
EMERALD GROVE SOLAR, LLC
ENERGY REWARDS, LLC
ENNIS POWER COMPANY, LLC

EVERYDAY ENERGY NJ, LLC

EVERYDAY ENERGY, LLC FAYETTE POWER COMPANY LLC FOREST GROVE SOLAR LLC

EQUIPOWER RESOURCES CORP.

LUMINANT ET SERVICES COMPANY LLC

LUMINANT GAS IMPORTS LLC

LUMINANT GENERATION COMPANY LLC LUMINANT MINING COMPANY LLC LUMINANT POWER GENERATION INC.

LUMINANT POWER LLC MASSPOWER, LLC

MIAMI FORT POWER COMPANY LLC

MIDLOTHIAN ENERGY, LLC
MILFORD POWER COMPANY, LLC
MORRO BAY ENERGY STORAGE 1, LLC
MORRO BAY ENERGY STORAGE 2, LLC
MORRO BAY POWER COMPANY LLC
MOSS LANDING ENERGY STORAGE 1, LLC
MOSS LANDING ENERGY STORAGE 2, LLC
MOSS LANDING ENERGY STORAGE 3, LLC
MOSS LANDING ENERGY STORAGE 4, LLC
MOSS LANDING POWER COMPANY LLC

NCA RESOURCES DEVELOPMENT COMPANY LLC

NEPCO SERVICES COMPANY

NORTHEASTERN POWER COMPANY

OAK GROVE MANAGEMENT COMPANY LLC

OAK HILL SOLAR LLC

OAKLAND ENERGY STORAGE 1, LLC OAKLAND ENERGY STORAGE 2, LLC OAKLAND ENERGY STORAGE 3, LLC OAKLAND POWER COMPANY LLC

ONTELAUNEE POWER OPERATING COMPANY, LLC

PLEASANTS ENERGY, LLC

PUBLIC POWER & UTILITY OF MARYLAND, LLC

PUBLIC POWER & UTILITY OF NY, INC.

PUBLIC POWER, LLC (a Connecticut limited liability company)
PUBLIC POWER, LLC (a Pennsylvania limited liability company)

REGIONAL ENERGY HOLDINGS, INC.
RENEWABLE ENERGY VENTURES, LLC
RICHLAND-STRYKER GENERATION LLC
SANDOW POWER COMPANY LLC
SAYREVILLE POWER GP INC.
SAYREVILLE POWER HOLDINGS LLC

SAYREVILLE POWER LP SITHE ENERGIES, INC. SITHE/INDEPENDENCE LLC

SOUTHWESTERN ELECTRIC SERVICE COMPANY, INC.

TEXAS ELECTRIC SERVICE COMPANY, INC.
TEXAS ENERGY INDUSTRIES COMPANY, INC.
TEXAS POWER & LIGHT COMPANY, INC.
TEXAS UTILITIES COMPANY, INC.

TEXAS UTILITIES ELECTRIC COMPANY, INC.

TRIEAGLE 1, LLC
TRIEAGLE 2, LLC

GENERATION SVC COMPANY HALLMARK SOLAR, LLC

HANGING ROCK POWER COMPANY LLC

HAYS ENERGY, LLC

HOPEWELL POWER GENERATION, LLC
ILLINOIS POWER GENERATING COMPANY
ILLINOIS POWER MARKETING COMPANY
ILLINOIS POWER RESOURCES GENERATING, LLC

ILLINOIS FOWER RESOURCES GENERATING

ILLINOIS POWER RESOURCES, LLC

ILLINOVA CORPORATION

IPH, LLC

KINCAID GENERATION, L.L.C. KENDALL POWER COMPANY LLC LA FRONTERA HOLDINGS, LLC

LAKE ROAD GENERATING COMPANY, LLC

LIBERTY ELECTRIC POWER, LLC LONE STAR ENERGY COMPANY, INC. LONE STAR PIPELINE COMPANY, INC.

LUMINANT ADMINISTRATIVE SERVICES COMPANY

LUMINANT COAL GENERATION LLC

LUMINANT COMMERCIAL ASSET MANAGEMENT LLC

LUMINANT ENERGY COMPANY LLC

LUMINANT ENERGY TRADING CALIFORNIA COMPANY

TRIEAGLE ENERGY LP

TRINIDAD POWER STORAGE LLC TXU ELECTRIC COMPANY, INC. TXU ENERGY RETAIL COMPANY LLC TXU RETAIL SERVICES COMPANY

TXU RETAIL SERVICES COMPANY UPTON COUNTY SOLAR 2, LLC VALUE BASED BRANDS LLC VIRIDIAN ENERGY, LLC

VIRIDIAN ENERGY PA LLC VIRIDIAN ENERGY NY, LLC VIRIDIAN NETWORK, LLC VISTRA ASSET COMPANY LLC

VISTRA CORPORATE SERVICES COMPANY

VISTRA EP PROPERTIES COMPANY

VISTRA FINANCE CORP.

VISTRA INSURANCE SOLUTIONS LLC

VISTRA PREFERRED INC. VOLT ASSET COMPANY, INC.

WASHINGTON POWER GENERATION LLC WHARTON COUNTY GENERATION, LLC WISE COUNTY POWER COMPANY, LLC

WISE-FUELS PIPELINE, INC. ZIMMER POWER COMPANY LLC

as the Subsidiary Guarantors

By: /s/ Kristopher E. Moldovan
Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[Signature Page to Seventh Supplemental Indenture]

WILMINGTON TRUST, NATIONAL ASSOCIATION,

as the Trustee

By: <u>/s/ Christopher Spinelli</u> Name: Christopher Spinelli Title: Vice President

[Signature Page to Seventh Supplemental Indenture]

SCHEDULE I

SUBSIDIARY GUARANTOR

Name	Jurisdiction
Viridian International Management LLC	Delaware

SEVENTH SUPPLEMENTAL INDENTURE SUBSIDIARY GUARANTEES

SEVENTH SUPPLEMENTAL INDENTURE (this "**Supplemental Indenture**"), dated as of July 29, 2021, among the subsidiary guarantor listed on <u>Schedule I</u> hereto (the "**Guaranteeing Subsidiary**"), Vistra Operations Company LLC, a Delaware limited liability company (the "**Company**"), the other subsidiary guarantors party hereto and Wilmington Trust, National Association, as trustee under the indenture referred to below (the "**Trustee**").

WITNESSETH

WHEREAS, the Company has heretofore executed and delivered to the Trustee that certain Indenture (as supplemented and amended, the "**Indenture**"), dated as of February 6, 2019, among the Company, the Subsidiary Guarantors party thereto and the Trustee, providing for the original issuance of an aggregate principal amount of \$1,300,000,000 of 5.625% Senior Notes due 2027 (the "**Notes**");

WHEREAS, the Indenture provides that under certain circumstances the Guaranteeing Subsidiary shall execute and deliver to the Trustee a supplemental indenture pursuant to which the Guaranteeing Subsidiary shall unconditionally guarantee all of the Company's Obligations under the Notes and the Indenture (the "Subsidiary Guarantees"); and

WHEREAS, pursuant to Sections 4.07 and 9.01 of the Indenture, the Trustee, the Company and the other Subsidiary Guarantors are authorized and required to execute and deliver this Supplemental Indenture.

NOW THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt of which is hereby acknowledged, the Guaranteeing Subsidiary, the Trustee, the Company and the other Subsidiary Guarantors mutually covenant and agree for the equal and ratable benefit of the Holders of the Notes as follows:

- 1. *Capitalized Terms*. Unless otherwise defined in this Supplemental Indenture, capitalized terms used herein without definition shall have the meanings assigned to them in the Indenture.
- 2. Agreement to be Bound; Guarantee. The Guaranteeing Subsidiary hereby becomes a party to the Indenture as a Subsidiary Guarantor and as such will have all of the rights and be subject to all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. The Guaranteeing Subsidiary hereby agrees to be bound by all of the provisions of the Indenture applicable to a Subsidiary Guarantor and to perform all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. In furtherance of the foregoing, the Guaranteeing Subsidiary shall be deemed a Subsidiary Guarantor for purposes of Article 10 of the Indenture, including, without limitation, Section 10.02 thereof.

- 3. NEW YORK LAW TO GOVERN. THIS SUPPLEMENTAL INDENTURE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.
- 4. *Counterparts*. The parties may sign any number of copies of this Supplemental Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.
 - 5. *Effect of Headings*. The Section headings herein are for convenience only and shall not affect the construction hereof.
- 6. *The Trustee*. The Trustee shall not be responsible in any manner whatsoever for or in respect of the validity or sufficiency of this Supplemental Indenture or for or in respect of the recitals contained herein, all of which recitals are made solely by the Guaranteeing Subsidiary and the Company.
- 7. *Ratification of Indenture;* Supplemental Indenture Part of Indenture. Except as expressly amended hereby, the Indenture is in all respects ratified and confirmed and all the terms, conditions and provisions thereof shall remain in full force and effect. This Supplemental Indenture shall form a part of the Indenture for all purposes, and every Holder of Notes heretofore or hereafter authenticated and delivered shall be bound hereby.

[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed and attested, all as of the date first written above.

VIRIDIAN INTERNATIONAL MANAGEMENT

as the Guaranteeing Subsidiary

By: /s/ Kristopher E. Moldovan

Name: Kristopher E. Moldovan Title: Senior Vice President and Treasurer

VISTRA OPERATIONS COMPANY LLC,

as the Company

By: <u>/s/ Kristopher E. Moldovan</u>
Name: Kristopher E. Moldovan
Title: Senior Vice President and Treasurer

AMBIT CALIFORNIA, LLC
AMBIT ENERGY HOLDINGS, LLC

AMBIT HOLDINGS, LLC
AMBIT ILLINOIS, LLC
AMBIT MARKETING, LLC
AMBIT MIDWEST, LLC
AMBIT NEW YORK, LLC
AMBIT NORTHEAST, LLC
AMBIT TEXAS, LLC

BELLINGHAM POWER GENERATION LLC
BIG BROWN POWER COMPANY LLC

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BIG SKY GAS HOLDINGS, LLC

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DYNEGY KILLEN, LLC

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DYNEGY MIDWEST GENERATION, LLC
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DYNEGY STUART, LLC
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EVERYDAY ENERGY, LLC FAYETTE POWER COMPANY LLC FOREST GROVE SOLAR LLC LUMINANT ET SERVICES COMPANY LLC

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MOSS LANDING ENERGY STORAGE 4, LLC
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NEPCO SERVICES COMPANY

NORTHEASTERN POWER COMPANY

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SAYREVILLE POWER LP SITHE ENERGIES, INC. SITHE/INDEPENDENCE LLC

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TEXAS ELECTRIC SERVICE COMPANY, INC.
TEXAS ENERGY INDUSTRIES COMPANY, INC.
TEXAS POWER & LIGHT COMPANY, INC.
TEXAS UTILITIES COMPANY, INC.

TEXAS UTILITIES ELECTRIC COMPANY, INC.

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TRIEAGLE 2, LLC

GENERATION SVC COMPANY HALLMARK SOLAR, LLC

HANGING ROCK POWER COMPANY LLC

HAYS ENERGY, LLC

HOPEWELL POWER GENERATION, LLC ILLINOIS POWER GENERATING COMPANY ILLINOIS POWER MARKETING COMPANY

ILLINOIS POWER RESOURCES GENERATING, LLC

ILLINOIS POWER RESOURCES, LLC

ILLINOVA CORPORATION

IPH, LLC

KINCAID GENERATION, L.L.C. KENDALL POWER COMPANY LLC LA FRONTERA HOLDINGS, LLC

LAKE ROAD GENERATING COMPANY, LLC

LIBERTY ELECTRIC POWER, LLC LONE STAR ENERGY COMPANY, INC. LONE STAR PIPELINE COMPANY, INC.

LUMINANT ADMINISTRATIVE SERVICES COMPANY

LUMINANT COAL GENERATION LLC

LUMINANT COMMERCIAL ASSET MANAGEMENT LLC

LUMINANT ENERGY COMPANY LLC

LUMINANT ENERGY TRADING CALIFORNIA COMPANY

TRIEAGLE ENERGY LP

TRINIDAD POWER STORAGE LLC
TXU ELECTRIC COMPANY, INC.
TXU ENERGY RETAIL COMPANY LLC
TXU RETAIL SERVICES COMPANY
UPTON COUNTY SOLAR 2, LLC
VALUE BASED BRANDS LLC
VIRIDIAN ENERGY, LLC

VIRIDIAN ENERGY PA LLC VIRIDIAN ENERGY NY, LLC VIRIDIAN NETWORK, LLC VISTRA ASSET COMPANY LLC

VISTRA CORPORATE SERVICES COMPANY

VISTRA EP PROPERTIES COMPANY

VISTRA FINANCE CORP.

VISTRA INSURANCE SOLUTIONS LLC

VISTRA PREFERRED INC. VOLT ASSET COMPANY, INC.

WASHINGTON POWER GENERATION LLC WHARTON COUNTY GENERATION, LLC WISE COUNTY POWER COMPANY, LLC

WISE-FUELS PIPELINE, INC. ZIMMER POWER COMPANY LLC

as the Subsidiary Guarantors

By: <u>/s/ Kristopher E. Moldovan</u> Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

WILMINGTON TRUST, NATIONAL ASSOCIATION,

as the Trustee

By: <u>/s/ Christopher Spinelli</u> Name: Christopher Spinelli Title: Vice President

SCHEDULE I

SUBSIDIARY GUARANTOR

Name	Jurisdiction
Viridian International Management LLC	Delaware

SEVENTH SUPPLEMENTAL INDENTURE SUBSIDIARY GUARANTEES

SEVENTH SUPPLEMENTAL INDENTURE (this "**Supplemental Indenture**"), dated as of July 29, 2021, among the subsidiary guarantor listed on <u>Schedule I</u> hereto (the "**Guaranteeing Subsidiary**"), Vistra Operations Company LLC, a Delaware limited liability company (the "**Company**"), the other subsidiary guarantors party hereto and Wilmington Trust, National Association, as trustee under the indenture referred to below (the "**Trustee**").

WITNESSETH

WHEREAS, the Company has heretofore executed and delivered to the Trustee that certain Indenture (as supplemented and amended, the "**Indenture**"), dated as of June 21, 2019, among the Company, the Subsidiary Guarantors party thereto and the Trustee, providing for the original issuance of an aggregate principal amount of \$1,300,000,000 of 5.00% Senior Notes due 2027 (the "**Notes**");

WHEREAS, the Indenture provides that under certain circumstances the Guaranteeing Subsidiary shall execute and deliver to the Trustee a supplemental indenture pursuant to which the Guaranteeing Subsidiary shall unconditionally guarantee all of the Company's Obligations under the Notes and the Indenture (the "Subsidiary Guarantees"); and

WHEREAS, pursuant to Sections 4.07 and 9.01 of the Indenture, the Trustee, the Company and the other Subsidiary Guarantors are authorized and required to execute and deliver this Supplemental Indenture.

NOW THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt of which is hereby acknowledged, the Guaranteeing Subsidiary, the Trustee, the Company and the other Subsidiary Guarantors mutually covenant and agree for the equal and ratable benefit of the Holders of the Notes as follows:

- 1. *Capitalized Terms*. Unless otherwise defined in this Supplemental Indenture, capitalized terms used herein without definition shall have the meanings assigned to them in the Indenture.
- 2. Agreement to be Bound; Guarantee. The Guaranteeing Subsidiary hereby becomes a party to the Indenture as a Subsidiary Guarantor and as such will have all of the rights and be subject to all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. The Guaranteeing Subsidiary hereby agrees to be bound by all of the provisions of the Indenture applicable to a Subsidiary Guarantor and to perform all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. In furtherance of the foregoing, the Guaranteeing Subsidiary shall be deemed a Subsidiary Guarantor for purposes of Article 10 of the Indenture, including, without limitation, Section 10.02 thereof.

- 3. NEW YORK LAW TO GOVERN. THIS SUPPLEMENTAL INDENTURE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.
- 4. *Counterparts*. The parties may sign any number of copies of this Supplemental Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.
 - 5. *Effect of Headings*. The Section headings herein are for convenience only and shall not affect the construction hereof.
- 6. *The Trustee*. The Trustee shall not be responsible in any manner whatsoever for or in respect of the validity or sufficiency of this Supplemental Indenture or for or in respect of the recitals contained herein, all of which recitals are made solely by the Guaranteeing Subsidiary and the Company.
- 7. *Ratification of Indenture;* Supplemental Indenture Part of Indenture. Except as expressly amended hereby, the Indenture is in all respects ratified and confirmed and all the terms, conditions and provisions thereof shall remain in full force and effect. This Supplemental Indenture shall form a part of the Indenture for all purposes, and every Holder of Notes heretofore or hereafter authenticated and delivered shall be bound hereby.

[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed and attested, all as of the date first written above.

VIRIDIAN INTERNATIONAL MANAGEMENT

as the Guaranteeing Subsidiary

By: /s/ Kristopher E. Moldovan

Name: Kristopher E. Moldovan Title: Senior Vice President and Treasurer

VISTRA OPERATIONS COMPANY LLC,

as the Company

By: <u>/s/ Kristopher E. Moldovan</u>
Name: Kristopher E. Moldovan
Title: Senior Vice President and Treasurer

AMBIT CALIFORNIA, LLC
AMBIT ENERGY HOLDINGS, LLC

AMBIT HOLDINGS, LLC
AMBIT ILLINOIS, LLC
AMBIT MARKETING, LLC
AMBIT MIDWEST, LLC
AMBIT NEW YORK, LLC
AMBIT NORTHEAST, LLC
AMBIT TEXAS, LLC

BELLINGHAM POWER GENERATION LLC
BIG BROWN POWER COMPANY LLC

BIG SKY GAS, LLC

BIG SKY GAS HOLDINGS, LLC

BLACKSTONE POWER GENERATION LLC

BLUENET HOLDINGS, LLC
BRIGHTSIDE SOLAR, LLC
CALUMET ENERGY TEAM, LLC
CASCO BAY ENERGY COMPANY, LLC
CINCINNATI BELL ENERGY LLC

COFFEEN AND WESTERN RAILROAD COMPANY

COLETO CREEK POWER, LLC

COLETO CREEK ENERGY STORAGE LLC COMANCHE PEAK POWER COMPANY LLC

CORE SOLAR SPV I, LLC CRIUS ENERGY, LLC CRIUS ENERGY CORPORATION

CRIUS ENERGY CORPORATION
CRIUS SOLAR FULFILLMENT, LLC
DALLAS POWER & LIGHT COMPANY, INC.
DICKS CREEK POWER COMPANY LLC

DYNEGY COAL HOLDCO, LLC

DYNEGY COAL TRADING & TRANSPORTATION, L.L.C.

DYNEGY CONESVILLE, LLC

DYNEGY ENERGY SERVICES (EAST), LLC DYNEGY ENERGY SERVICES, LLC

DYNEGY KILLEN, LLC

DYNEGY MARKETING AND TRADE, LLC DYNEGY MIDWEST GENERATION, LLC DYNEGY OPERATING COMPANY DYNEGY POWER MARKETING, LLC

DYNEGY RESOURCES GENERATING HOLDCO, LLC

DYNEGY SOUTH BAY, LLC
DYNEGY STUART, LLC
EMERALD GROVE SOLAR, LLC
ENERGY REWARDS, LLC
ENNIS POWER COMPANY, LLC
EQUIPOWER RESOURCES CORP.

EVERYDAY ENERGY NJ, LLC EVERYDAY ENERGY, LLC FAYETTE POWER COMPANY LLC FOREST GROVE SOLAR LLC LUMINANT ET SERVICES COMPANY LLC

LUMINANT GAS IMPORTS LLC

LUMINANT GENERATION COMPANY LLC LUMINANT MINING COMPANY LLC LUMINANT POWER GENERATION INC.

LUMINANT POWER LLC MASSPOWER, LLC

MIAMI FORT POWER COMPANY LLC

MIDLOTHIAN ENERGY, LLC
MILFORD POWER COMPANY, LLC
MORRO BAY ENERGY STORAGE 1, LLC
MORRO BAY ENERGY STORAGE 2, LLC
MORRO BAY POWER COMPANY LLC
MOSS LANDING ENERGY STORAGE 1, LLC
MOSS LANDING ENERGY STORAGE 2, LLC
MOSS LANDING ENERGY STORAGE 3, LLC
MOSS LANDING ENERGY STORAGE 4, LLC
MOSS LANDING POWER COMPANY LLC

NCA RESOURCES DEVELOPMENT COMPANY LLC

NEPCO SERVICES COMPANY

NORTHEASTERN POWER COMPANY

OAK GROVE MANAGEMENT COMPANY LLC

OAK HILL SOLAR LLC

OAKLAND ENERGY STORAGE 1, LLC OAKLAND ENERGY STORAGE 2, LLC OAKLAND ENERGY STORAGE 3, LLC OAKLAND POWER COMPANY LLC

ONTELAUNEE POWER OPERATING COMPANY, LLC

PLEASANTS ENERGY, LLC

PUBLIC POWER & UTILITY OF MARYLAND, LLC

PUBLIC POWER & UTILITY OF NY, INC.

PUBLIC POWER, LLC (a Connecticut limited liability company)
PUBLIC POWER, LLC (a Pennsylvania limited liability company)

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RENEWABLE ENERGY VENTURES, LLC
RICHLAND-STRYKER GENERATION LLC
SANDOW POWER COMPANY LLC
SAYREVILLE POWER GP INC.
SAYREVILLE POWER HOLDINGS LLC

SAYREVILLE POWER LP SITHE ENERGIES, INC. SITHE/INDEPENDENCE LLC

SOUTHWESTERN ELECTRIC SERVICE COMPANY, INC.

TEXAS ELECTRIC SERVICE COMPANY, INC.
TEXAS ENERGY INDUSTRIES COMPANY, INC.
TEXAS POWER & LIGHT COMPANY, INC.
TEXAS UTILITIES COMPANY, INC.

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TRIEAGLE 1, LLC
TRIEAGLE 2, LLC

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HAYS ENERGY, LLC

HOPEWELL POWER GENERATION, LLC ILLINOIS POWER GENERATING COMPANY ILLINOIS POWER MARKETING COMPANY

ILLINOIS POWER RESOURCES GENERATING, LLC

ILLINOIS POWER RESOURCES, LLC

ILLINOVA CORPORATION

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LAKE ROAD GENERATING COMPANY, LLC

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LUMINANT ADMINISTRATIVE SERVICES COMPANY

LUMINANT COAL GENERATION LLC

LUMINANT COMMERCIAL ASSET MANAGEMENT LLC

LUMINANT ENERGY COMPANY LLC

LUMINANT ENERGY TRADING CALIFORNIA COMPANY

TRIEAGLE ENERGY LP

TRINIDAD POWER STORAGE LLC TXU ELECTRIC COMPANY, INC. TXU ENERGY RETAIL COMPANY LLC TXU RETAIL SERVICES COMPANY

UPTON COUNTY SOLAR 2, LLC
VALUE BASED BRANDS LLC
VIRIDIAN ENERGY, LLC

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VISTRA CORPORATE SERVICES COMPANY

VISTRA EP PROPERTIES COMPANY

VISTRA FINANCE CORP.

VISTRA INSURANCE SOLUTIONS LLC

VISTRA PREFERRED INC. VOLT ASSET COMPANY, INC.

WASHINGTON POWER GENERATION LLC WHARTON COUNTY GENERATION, LLC WISE COUNTY POWER COMPANY, LLC

WISE-FUELS PIPELINE, INC. ZIMMER POWER COMPANY LLC

as the Subsidiary Guarantors

By: /s/ Kristopher E. Moldovan

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

WILMINGTON TRUST, NATIONAL ASSOCIATION,

as the Trustee

By: <u>/s/ Christopher Spinelli</u> Name: Christopher Spinelli Title: Vice President

SCHEDULE I

SUBSIDIARY GUARANTORS

Name	Jurisdiction
Viridian International Management LLC	Delaware

NINTH SUPPLEMENTAL INDENTURE SUBSIDIARY GUARANTEES

NINTH SUPPLEMENTAL INDENTURE (this "**Supplemental Indenture**"), dated as of July 29, 2021, among the subsidiary guarantor listed on <u>Schedule I</u> hereto (the "**Guaranteeing Subsidiary**"), Vistra Operations Company LLC, a Delaware limited liability company (the "**Company**"), the other subsidiary guarantors party hereto and Wilmington Trust, National Association, as trustee under the indenture referred to below (the "**Trustee**").

WITNESSETH

WHEREAS, the Company has heretofore executed and delivered to the Trustee (i) that certain Indenture (the "Base **Indenture**"), dated as of June 11, 2019, among the Company and the Trustee, (ii) that certain Supplemental Indenture (the "First Supplement"), dated as of June 11, 2019, among the Company, the Subsidiary Guarantors party thereto and the Trustee, providing for the original issuance of an aggregate principal amount of \$1,200,000,000 of 3.55% Senior Secured Notes due 2024 (the "2024 Notes") and aggregate principal amount of \$800,000,000 of 4.30% Senior Secured Notes due 2029 (the "2029 Notes"), (iii) that certain Second Supplemental Indenture, dated as of August 30, 2019, among the Company, the Subsidiary Guarantors party thereto and the Trustee (the "Second Supplement"), (iv) that certain Third Supplemental Indenture, dated as of October 25, 2019, among the Company, the Subsidiary Guarantors party thereto and the Trustee (the "Third Supplement"), (v) that certain Fourth Supplemental Indenture, dated as of November 15, 2019, among the Company, the Subsidiary Guarantors party thereto and the Trustee, providing for the issuance of \$800,000,000 of 3.70% Senior Secured Notes due 2027 (the "2027 Notes" and, collectively with the 2024 Notes and the 2029 Notes, the "Notes") (the "Fourth Supplement"), (vi) that certain Fifth Supplemental Indenture, dated as of January 31, 2020, among the Company, the Subsidiary Guarantors party thereto and the Trustee (the "Fifth Supplement", (vii) that certain Sixth Supplemental Indenture, dated as of March 26, 2020, among the Company, the Subsidiary Guarantors party thereto and the Trustee (the "Sixth Supplement"), (viii) that certain Seventh Supplemental Indenture, dated as of October 7, 2020, among the Company, the Subsidiary Guarantors party thereto and the Trustee (the "Seventh Supplement"), and (ix) that certain Eighth Supplemental Indenture, dated as of January 8, 2021, among the Company, the Subsidiary Guarantors party thereto and the Trustee (the "**Eighth Supplement**" and, together with the Base Indenture, the First Supplement, the Second Supplement, the Third Supplement, the Fourth Supplement, the Fifth Supplement, the Sixth Supplement, and the Seventh Supplement, the "**Indenture**");

WHEREAS, the Indenture provides that under certain circumstances the Guaranteeing Subsidiaries shall execute and deliver to the Trustee a supplemental indenture pursuant to which the Guaranteeing Subsidiary shall unconditionally guarantee all of the Company's Obligations under the Notes and the Indenture (the "Subsidiary Guarantees"); and

WHEREAS, pursuant to Section 9.01 of the Base Indenture and Sections 4.07 and 9.01 of the First Supplement and the Fourth Supplement, the Trustee, the Company and the other Subsidiary Guarantors are authorized and required to execute and deliver this Supplemental Indenture.

NOW THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt of which is hereby acknowledged, the Guaranteeing Subsidiary, the Trustee, the Company and the other Subsidiary Guarantors mutually covenant and agree for the equal and ratable benefit of the Holders of the Notes as follows:

- 1. *Capitalized Terms*. Unless otherwise defined in this Supplemental Indenture, capitalized terms used herein without definition shall have the meanings assigned to them in the Base Indenture, First Supplement or Fourth Supplement, as applicable.
- 2. Agreement to be Bound; Guarantee. The Guaranteeing Subsidiary hereby becomes a party to the Indenture as a Subsidiary Guarantor and as such will have all of the rights and be subject to all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. The Guaranteeing Subsidiary hereby agrees to be bound by all of the provisions of the Indenture applicable to a Subsidiary Guarantor and to perform all of the Obligations and agreements of a Subsidiary Guarantor under the Indentures. In furtherance of the foregoing, the Guaranteeing Subsidiary shall be deemed a Subsidiary Guarantor for purposes of Article 10 of the First Supplement and the Fourth Supplement, including, without limitation, Section 10.02 thereof.
- 3. NEW YORK LAW TO GOVERN. THIS SUPPLEMENTAL INDENTURE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.
- 4. *Counterparts*. The parties may sign any number of copies of this Supplemental Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.
 - 5. Effect of Headings. The Section headings herein are for convenience only and shall not affect the construction hereof.
- 6. *The Trustee*. The Trustee shall not be responsible in any manner whatsoever for or in respect of the validity or sufficiency of this Supplemental Indenture or for or in respect of the recitals contained herein, all of which recitals are made solely by the Guaranteeing Subsidiary and the Company.
- 7. *Ratification of Indenture; Supplemental Indenture Part of Indenture.* Except as expressly amended hereby, the Indenture is in all respects ratified and confirmed and all the terms, conditions and provisions thereof shall remain in full force and effect. This Supplemental Indenture shall form a part of the Indenture for all purposes, and every Holder of Notes heretofore or hereafter authenticated and delivered shall be bound hereby.

[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed and attested, all as of the date first written above.

VIRIDIAN INTERNATIONAL MANAGEMENT LLC

as the Guaranteeing Subsidiary

By: <u>/s/ Kristopher E. Moldovan</u> Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

VISTRA OPERATIONS COMPANY LLC,

as the Company

By: <u>/s/ Kristopher E. Moldovan</u>
Name: Kristopher E. Moldovan
Title: Senior Vice President and Treasurer

AMBIT CALIFORNIA, LLC
AMBIT ENERGY HOLDINGS, LLC

AMBIT HOLDINGS, LLC
AMBIT ILLINOIS, LLC
AMBIT MARKETING, LLC
AMBIT MIDWEST, LLC
AMBIT NEW YORK, LLC
AMBIT NORTHEAST, LLC
AMBIT TEXAS, LLC

BELLINGHAM POWER GENERATION LLC BIG BROWN POWER COMPANY LLC

BIG SKY GAS, LLC

BIG SKY GAS HOLDINGS, LLC

BLACKSTONE POWER GENERATION LLC

BLUENET HOLDINGS, LLC
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CASCO BAY ENERGY COMPANY, LLC
CINCINNATI BELL ENERGY LLC

COFFEEN AND WESTERN RAILROAD COMPANY

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COLETO CREEK ENERGY STORAGE LLC COMANCHE PEAK POWER COMPANY LLC

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CRIUS ENERGY CORPORATION
CRIUS SOLAR FULFILLMENT, LLC
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DYNEGY COAL TRADING & TRANSPORTATION, L.L.C.

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DYNEGY ENERGY SERVICES, LLC

DYNEGY KILLEN, LLC

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DYNEGY RESOURCES GENERATING HOLDCO, LLC

DYNEGY SOUTH BAY, LLC DYNEGY STUART, LLC

EMERALD GROVE SOLAR, LLC ENERGY REWARDS, LLC ENNIS POWER COMPANY, LLC EQUIPOWER RESOURCES CORP.

EVERYDAY ENERGY NJ, LLC EVERYDAY ENERGY, LLC

FAYETTE POWER COMPANY LLC

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LUMINANT GAS IMPORTS LLC

LUMINANT GENERATION COMPANY LLC LUMINANT MINING COMPANY LLC LUMINANT POWER GENERATION INC.

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MIAMI FORT POWER COMPANY LLC

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MILFORD POWER COMPANY, LLC
MORRO BAY ENERGY STORAGE 1, LLC
MORRO BAY ENERGY STORAGE 2, LLC
MORRO BAY POWER COMPANY LLC
MOSS LANDING ENERGY STORAGE 1, LLC

MOSS LANDING ENERGY STORAGE 1, LLC
MOSS LANDING ENERGY STORAGE 2, LLC
MOSS LANDING ENERGY STORAGE 4, LLC
MOSS LANDING POWER COMPANY LLC

NCA RESOURCES DEVELOPMENT COMPANY LLC

NEPCO SERVICES COMPANY

NORTHEASTERN POWER COMPANY

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OAK HILL SOLAR LLC

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PUBLIC POWER & UTILITY OF NY, INC.

PUBLIC POWER, LLC (a Connecticut limited liability company)
PUBLIC POWER, LLC (a Pennsylvania limited liability company)

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SANDOW POWER COMPANY LLC SAYREVILLE POWER GP INC. SAYREVILLE POWER HOLDINGS LLC

SAYREVILLE POWER LP SITHE ENERGIES, INC. SITHE/INDEPENDENCE LLC

SOUTHWESTERN ELECTRIC SERVICE COMPANY, INC.

TEXAS ELECTRIC SERVICE COMPANY, INC. TEXAS ENERGY INDUSTRIES COMPANY, INC. TEXAS POWER & LIGHT COMPANY, INC.

TEXAS UTILITIES COMPANY, INC.

TEXAS UTILITIES ELECTRIC COMPANY, INC.

TRIEAGLE 1, LLC

FOREST GROVE SOLAR LLC GENERATION SVC COMPANY HALLMARK SOLAR, LLC

HANGING ROCK POWER COMPANY LLC

HAYS ENERGY, LLC

HOPEWELL POWER GENERATION, LLC ILLINOIS POWER GENERATING COMPANY ILLINOIS POWER MARKETING COMPANY ILLINOIS POWER RESOURCES GENERATING, LLC

ILLINOIS POWER RESOURCES, LLC

ILLINOVA CORPORATION

IPH, LLC

KINCAID GENERATION, L.L.C. KENDALL POWER COMPANY LLC LA FRONTERA HOLDINGS, LLC

LAKE ROAD GENERATING COMPANY, LLC

LIBERTY ELECTRIC POWER, LLC LONE STAR ENERGY COMPANY, INC. LONE STAR PIPELINE COMPANY, INC.

LUMINANT ADMINISTRATIVE SERVICES COMPANY

LUMINANT COAL GENERATION LLC

LUMINANT COMMERCIAL ASSET MANAGEMENT LLC

LUMINANT ENERGY COMPANY LLC

LUMINANT ENERGY TRADING CALIFORNIA COMPANY

TRIEAGLE 2, LLC TRIEAGLE ENERGY LP

TRINIDAD POWER STORAGE LLC TXU ELECTRIC COMPANY, INC. TXU ENERGY RETAIL COMPANY LLC TXU RETAIL SERVICES COMPANY **UPTON COUNTY SOLAR 2, LLC** VALUE BASED BRANDS LLC VIRIDIAN ENERGY, LLC VIRIDIAN ENERGY PA LLC

VIRIDIAN ENERGY NY, LLC VIRIDIAN NETWORK, LLC VISTRA ASSET COMPANY LLC

VISTRA CORPORATE SERVICES COMPANY

VISTRA EP PROPERTIES COMPANY

VISTRA FINANCE CORP.

VISTRA INSURANCE SOLUTIONS LLC

VISTRA PREFERRED INC. VOLT ASSET COMPANY, INC.

WASHINGTON POWER GENERATION LLC WHARTON COUNTY GENERATION, LLC WISE COUNTY POWER COMPANY, LLC

WISE-FUELS PIPELINE, INC. ZIMMER POWER COMPANY LLC

as the Subsidiary Guarantors

By: /s/ Kristopher E. Moldovan Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

WILMINGTON TRUST, NATIONAL ASSOCIATION,

as the Trustee

By: <u>/s/ Christopher Spinelli</u> Name: Christopher Spinelli Title: Vice President

SCHEDULE I

SUBSIDIARY GUARANTORS

Name	Jurisdiction
Viridian International Management LLC	Delaware

FIRST SUPPLEMENTAL INDENTURE SUBSIDIARY GUARANTEES

FIRST SUPPLEMENTAL INDENTURE (this "**Supplemental Indenture**"), dated as of July 29, 2021, among the subsidiary guarantor listed on <u>Schedule I</u> hereto (the "**Guaranteeing Subsidiary**"), Vistra Operations Company LLC, a Delaware limited liability company (the "**Company**"), the other subsidiary guarantors party hereto and Wilmington Trust, National Association, as trustee under the indenture referred to below (the "**Trustee**").

WITNESSETH

WHEREAS, the Company has heretofore executed and delivered to the Trustee that certain Indenture (as supplemented and amended, the "**Indenture**"), dated as of May 10, 2021, among the Company, the Subsidiary Guarantors party thereto and the Trustee, providing for the original issuance of an aggregate principal amount of \$1,250,000,000 of 4.375% Senior Notes due 2029 (the "**Notes**");

WHEREAS, the Indenture provides that under certain circumstances the Guaranteeing Subsidiary shall execute and deliver to the Trustee a supplemental indenture pursuant to which the Guaranteeing Subsidiary shall unconditionally guarantee all of the Company's Obligations under the Notes and the Indenture (the "Subsidiary Guarantees"); and

WHEREAS, pursuant to Sections 4.07 and 9.01 of the Indenture, the Trustee, the Company and the other Subsidiary Guarantors are authorized and required to execute and deliver this Supplemental Indenture.

NOW THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt of which is hereby acknowledged, the Guaranteeing Subsidiary, the Trustee, the Company and the other Subsidiary Guarantors mutually covenant and agree for the equal and ratable benefit of the Holders of the Notes as follows:

- 1. *Capitalized Terms*. Unless otherwise defined in this Supplemental Indenture, capitalized terms used herein without definition shall have the meanings assigned to them in the Indenture.
- 2. Agreement to be Bound; Guarantee. The Guaranteeing Subsidiary hereby becomes a party to the Indenture as a Subsidiary Guarantor and as such will have all of the rights and be subject to all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. The Guaranteeing Subsidiary hereby agrees to be bound by all of the provisions of the Indenture applicable to a Subsidiary Guarantor and to perform all of the Obligations and agreements of a Subsidiary Guarantor under the Indenture. In furtherance of the foregoing, the Guaranteeing Subsidiary shall be deemed a Subsidiary Guarantor for purposes of Article 10 of the Indenture, including, without limitation, Section 10.02 thereof.

- 3. NEW YORK LAW TO GOVERN. THIS SUPPLEMENTAL INDENTURE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK.
- 4. *Counterparts*. The parties may sign any number of copies of this Supplemental Indenture. Each signed copy shall be an original, but all of them together represent the same agreement.
 - 5. *Effect of Headings*. The Section headings herein are for convenience only and shall not affect the construction hereof.
- 6. *The Trustee*. The Trustee shall not be responsible in any manner whatsoever for or in respect of the validity or sufficiency of this Supplemental Indenture or for or in respect of the recitals contained herein, all of which recitals are made solely by the Guaranteeing Subsidiary and the Company.
- 7. *Ratification of Indenture;* Supplemental Indenture Part of Indenture. Except as expressly amended hereby, the Indenture is in all respects ratified and confirmed and all the terms, conditions and provisions thereof shall remain in full force and effect. This Supplemental Indenture shall form a part of the Indenture for all purposes, and every Holder of Notes heretofore or hereafter authenticated and delivered shall be bound hereby.

[Signature pages follow]

IN WITNESS WHEREOF, the parties hereto have caused this Supplemental Indenture to be duly executed and attested, all as of the date first written above.

VIRIDIAN INTERNATIONAL MANAGEMENT LLC

as the Guaranteeing Subsidiary

By: <u>/s/ Kristopher E. Moldovan</u> Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[Signature Page to First Supplemental Indenture]

VISTRA OPERATIONS COMPANY LLC,

as the Company

By: <u>/s/ Kristopher E. Moldovan</u>
Name: Kristopher E. Moldovan
Title: Senior Vice President and Treasurer

[Signature Page to First Supplemental Indenture]

AMBIT CALIFORNIA, LLC AMBIT ENERGY HOLDINGS, LLC

AMBIT HOLDINGS, LLC AMBIT ILLINOIS, LLC AMBIT MARKETING, LLC AMBIT MIDWEST, LLC AMBIT NEW YORK, LLC AMBIT NORTHEAST, LLC

BELLINGHAM POWER GENERATION LLC **BIG BROWN POWER COMPANY LLC**

BIG SKY GAS, LLC

AMBIT TEXAS, LLC

BIG SKY GAS HOLDINGS, LLC

BLACKSTONE POWER GENERATION LLC

BLUENET HOLDINGS, LLC BRIGHTSIDE SOLAR, LLC CALUMET ENERGY TEAM, LLC CASCO BAY ENERGY COMPANY, LLC CINCINNATI BELL ENERGY LLC

COFFEEN AND WESTERN RAILROAD COMPANY

COLETO CREEK POWER, LLC

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TEXAS ELECTRIC SERVICE COMPANY, INC. TEXAS ENERGY INDUSTRIES COMPANY, INC. TEXAS POWER & LIGHT COMPANY, INC. TEXAS UTILITIES COMPANY, INC.

TEXAS UTILITIES ELECTRIC COMPANY, INC.

TRIEAGLE 1, LLC TRIEAGLE 2, LLC GENERATION SVC COMPANY HALLMARK SOLAR, LLC

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ILLINOIS POWER RESOURCES, LLC

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TRINIDAD POWER STORAGE LLC TXU ELECTRIC COMPANY, INC. TXU ENERGY RETAIL COMPANY LLC TXU RETAIL SERVICES COMPANY **UPTON COUNTY SOLAR 2, LLC**

VALUE BASED BRANDS LLC VIRIDIAN ENERGY, LLC

VIRIDIAN ENERGY PA LLC VIRIDIAN ENERGY NY, LLC

VIRIDIAN NETWORK, LLC VISTRA ASSET COMPANY LLC

VISTRA CORPORATE SERVICES COMPANY

VISTRA EP PROPERTIES COMPANY

VISTRA FINANCE CORP.

VISTRA INSURANCE SOLUTIONS LLC

VISTRA PREFERRED INC. VOLT ASSET COMPANY, INC.

WASHINGTON POWER GENERATION LLC WHARTON COUNTY GENERATION, LLC WISE COUNTY POWER COMPANY, LLC

WISE-FUELS PIPELINE, INC. ZIMMER POWER COMPANY LLC

as the Subsidiary Guarantors

By: /s/ Kristopher E. Moldovan

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[Signature Page to First Supplemental Indenture]

WILMINGTON TRUST, NATIONAL ASSOCIATION,

as the Trustee

By: <u>/s/ Christopher Spinelli</u> Name: Christopher Spinelli Title: Vice President

[Signature Page to First Supplemental Indenture]

SCHEDULE I

SUBSIDIARY GUARANTOR

Name	Jurisdiction
Viridian International Management LLC	Delaware

AMENDMENT NO. 2 TO MASTER FRAMEWORK AGREEMENT

This AMENDMENT NO. 2 TO MASTER FRAMEWORK AGREEMENT (this "*Amendment*"), is made and entered into as of August 3, 2021 (the "*Amendment Date*"), by and among each of:

- (A) MUFG Bank, Ltd., a Japanese banking corporation ("MUFG"), as buyer ("Buyer");
- (B) TXU Energy Retail Company LLC, a Texas limited liability company ("*TXU*"), as seller (the "*Seller*");
- (C) each originator party hereto (each, an "*Originator*"; and together with the Seller, each a "*Seller Party*" and collectively, the "*Seller Parties*");
- (D) TXU, as agent for the Seller Parties (in such capacity, the "Seller Party Agent"); and
- (E) solely with respect to Section 4.4 hereof, Vistra Operations Company LLC, as guarantor (the "*Guarantor*"),

and amends that certain Master Framework Agreement dated as of October 9, 2020, by and among Buyer, the Seller, the Originators and the Seller Party Agent (as amended, supplemented or modified prior to the date hereof, the "Framework Agreement" and, as amended hereby, the "Amended Framework Agreement"). Each of Buyer, the Seller, each Originator and the Seller Party Agent may also be referred to herein individually as a "Party", and collectively as the "Parties".

RECITALS

WHEREAS, the Parties entered into the Framework Agreement and certain other Transaction Agreements for the purpose of providing the Seller with a facility under which Buyer will enter into certain sale and repurchase agreements with the Seller with respect to the Seller Note;

WHEREAS, Guarantor entered into a Guaranty in favor of Buyer pursuant to which Guarantor guaranteed the payment and performance of all obligations, liabilities and indebtedness owed by each Seller Party under the Transaction Agreements; and

WHEREAS, the Parties now wish to extend the Facility Term and amend certain other provisions of the Framework Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants, agreements and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and confirmed, the Parties and, solely for purposes of <u>Section 4.4</u> of this Amendment, the Guarantor agree as follows:

1. <u>Interpretation</u>.

- 1.1 <u>Definitions</u>. All capitalized terms used but not defined in this Amendment shall have the meanings set forth in the Framework Agreement (including Schedule 1 thereto).
- 1.2 <u>Construction</u>. The rules of construction set forth in Section 1.2 of the Framework Agreement shall apply to this Amendment.
- **2. Amendments**. The Framework Agreement is hereby amended, effective from and after the Amendment Date, as follows:
- 2.1 The definition of "Maximum Buyer Balance" set forth in Schedule 1 to the Framework Agreement is hereby amended by replacing the amount "\$150,000,000" where it appears therein with the amount "\$125,000,000".
- 2.2 The definition of "Scheduled Facility Expiration Date" set forth in Schedule 1 to the Framework Agreement is hereby amended by replacing the date "August 31, 2021" where it appears therein with the date "July 11, 2022".

3. Representations, Warranties, Undertakings and Agreements.

3.1 <u>Seller Party</u>. In entering into this Amendment, each Seller Party represents to Buyer that each of the representations and warranties of such Seller Party (as applicable) set forth in the Framework Agreement and each other Transaction Agreement to which such Seller Party is a party are true and correct in all material respects (except that any representation or warranty that is subject to any materiality qualification is true and correct in all respects) as of the Amendment Date (unless such representation or warranty relates to an earlier date, in which case as of such earlier date).

4. <u>Miscellaneous</u>.

- 4.1 <u>Counterparts</u>. This Amendment may be executed by the Parties on any number of separate counterparts, by email, and all of those counterparts taken together will be deemed to constitute one and the same instrument; signature pages may be detached from multiple separate counterparts and attached to a single counterpart so that all signatures are physically attached to the same document. The words "execution," "signed," "signature," and words of like import in this Amendment shall include images of manually executed signatures transmitted by facsimile or other electronic format (including, without limitation, "pdf", "tif" or "jpg") and other electronic signatures (including, without limitation, DocuSign and AdobeSign). The use of electronic signatures and electronic records (including, without limitation, any contract or other record created, generated, sent, communicated, received, or stored by electronic means) shall be of the same legal effect, validity and enforceability as a manually executed signature or use of a paper- based record-keeping system to the fullest extent permitted by applicable Law, including the Federal Electronic Signatures in Global and National Commerce Act, the New York State Electronic Signatures and Records Act and any other applicable Law, including, without limitation, any state law based on the Uniform Electronic Transactions Act or the Uniform Commercial Code.
- 4.2 <u>Amendments to Master Repurchase Agreement</u>. The Parties acknowledge and agree that, in connection with this Amendment and as a condition to the effectiveness hereof, Buyer and the Seller are entering into that certain Amendment No. 1 to Master Repurchase Agreement dated as of the Amendment Date (the "*MRA Amendment*"). The Parties further acknowledge and agree that, effective from and after the Amendment Date, all references in the

Framework Agreement and the other Transaction Agreements to the Master Repurchase Agreement shall be deemed references to such agreement as amended by the MRA Amendment (as so amended, the "Amended Master Repurchase Agreement"). The Amended Master Repurchase Agreements shall constitute a Transaction Agreement under the Amended Framework Agreement.

- 4.3 <u>Ratification and Amendment to Transaction Agreements</u>. Except as amended hereby or as otherwise specified in <u>Section 4.2</u> hereof, each of the other Transaction Agreements remains in full force and effect. The Parties hereby acknowledge and agree that, effective from and after the Amendment Date, (i) all references to the Framework Agreement in any other Transaction Agreement shall deemed to be references to the Amended Framework Agreement, (ii) any amendment in this Amendment or the MRA Amendment of a defined term in the Framework Agreement or the Master Repurchase Agreement, as the case may be, shall apply to terms in any other Transaction Agreement which are defined by reference to the Framework Agreement or the Master Repurchase Agreement, and (iii) this sentence shall be effective to amend each of the relevant Transaction Agreements (including the Master Repurchase Agreement and each Annex thereto) to the extent necessary to give effect to the foregoing <u>clauses (i)</u> and (<u>ii</u>).
- 4.4 <u>Guarantor Acknowledgment and Consent</u>. The Guarantor hereby acknowledges the Parties' entry into this Amendment and consents to the terms and conditions hereof (including with respect to the MRA Amendment), it being understood that such terms and conditions may affect the extent of the Guaranteed Obligations (as defined in the Guaranty) for which the Guarantor may be liable under the Guaranty. The Guarantor further confirms and agrees that the Guaranty remains in full force and effect after giving effect to this Amendment and, for the avoidance of doubt, acknowledges that any amendment herein of in the MRA Amendment to a defined term in the Framework Agreement or in the Master Repurchase Agreement (as the case may be) shall apply to terms in the Guaranty which are defined by reference to the Framework Agreement or the Master Repurchase Agreement.
- 4.5 <u>GOVERNING LAW</u>. THIS AMENDMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK (WITHOUT REFERENCE TO ITS CONFLICTS OF LAW PROVISIONS (OTHER THAN §5-1401 AND §5-1402 OF THE NEW YORK GENERAL OBLIGATIONS LAW, WHICH SHALL APPLY HERETO)).
- 4.6 <u>Expenses</u>. All reasonable and documented legal fees and expenses of Buyer incurred in connection with the preparation, negotiation, execution and delivery of this Amendment and each related document entered into in connection herewith shall be paid by the Seller promptly on demand.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first written above.

Buyer:

MUFG BANK, LTD.

By: <u>/s/ MATT STRATTON</u>

Name: Matt Stratton Title: Managing Director

[SIGNATURE PAGES CONTINUE ON FOLLOWING PAGE]

[Signature Page to Amendment No. 2 to Master Framework Agreement]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first written above.

Seller and Seller Party Agent:

TXU ENERGY RETAIL COMPANY LLC

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[SIGNATURE PAGES CONTINUE ON FOLLOWING PAGE]

[Signature Page to Amendment No. 2 to Master Framework Agreement]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first written above.

Originators:

TXU ENERGY RETAIL COMPANY LLC, as an Originator

By: <u>/s/ KRISTOPHER E. MOLDOVAN</u>

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

DYNEGY ENERGY SERVICES, LLC, as an Originator

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

DYNEGY ENERGY SERVICES (EAST), LLC, as an Originator

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

AMBIT TEXAS, LLC, as an Originator

By: <u>/s/ KRISTOPHER E. MOLDOVAN</u>

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

TRIEAGLE ENERGY LP, as an Originator

By: TriEagle 1, LLC, its general partner

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

VALUE BASED BRANDS LLC, as an Originator

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[SIGNATURE PAGES CONTINUE ON FOLLOWING PAGE]

[Signature Page to Amendment No. 2 to Master Framework Agreement]

IN WITNESS WHEREOF, Guarantor has executed this Amendment as of the date first written above, solely with respect to Section 4.6 thereof.

Guarantor:

VISTRA OPERATIONS COMPANY LLC

By: /s/ KRISTOPHER E. MOLDOVAN

Name: Kristopher E. Moldovan

Title: Senior Vice President and Treasurer

[Signature Page to Amendment No. 2 to Master Framework Agreement]

EXECUTED VERSION

AMENDMENT NO. 1 TO MASTER REPURCHASE AGREEMENT

This AMENDMENT NO. 1 TO MASTER REPURCHASE AGREEMENT (this "Amendment"), is made and entered into as of August 3, 2021 (the "Amendment Date"), by and among each of

- (A) MUFG Bank, Ltd., a Japanese banking corporation, as buyer ("Buyer"); and
- (B) TXU Energy Retail Company LLC, a Texas limited liability company ("*TXU*"), as seller (the "*Seller*");

and amends that certain that certain 1996 SIFMA Master Repurchase Agreement dated as of October 9, 2020, between Seller and Buyer (the "*Master Repurchase Agreement*" and, as amended hereby, the "*Amended Master Repurchase Agreement*"). Each of Buyer and Seller may also be referred to herein individually as a "*Party*", and collectively as the "*Parties*".

RECITALS

WHEREAS, the Parties entered into the Master Repurchase Agreement; and

WHEREAS, the Parties now wish to amend certain provisions of the Master Repurchase Agreement.

AGREEMENT

NOW, THEREFORE, in consideration of the mutual covenants, agreements and conditions set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and confirmed, the Parties agree as follows:

1. Interpretation.

- 1.1 <u>Definitions</u>. All capitalized terms used but not defined in this Amendment shall have the meanings set forth in the Master Repurchase Agreement (including Annex I thereto).
- 1.2 <u>Construction</u>. The rules of construction set forth in Section 1.2 of the Framework Agreement shall apply to this Amendment.

2. Amendments.

The Master Repurchase Agreement is hereby amended, effective from and after the Amendment Date, as follows:

- 2.1 any text in Exhibit A to this Amendment that is struck through shall be deleted from the applicable provision of Annex I to the Master Repurchase Agreement; and
- 2.2 any text that is double underline shall be added to the applicable provision of the Annex I to the Master Repurchase Agreement.

3. Representations, Warranties, Undertakings and Agreements.

3.1 <u>Seller</u>. In entering into this Amendment, Seller represents to Buyer that each of the representations and warranties of Seller set forth in the Master Repurchase Agreement are true and correct in all material respects (except that any representation or warranty that is subject to any materiality qualification is true and correct in all respects) as of the Amendment Date (unless such representation or warranty relates to an earlier date, in which case as of such earlier date).

4. Miscellaneous.

- 4.1 <u>Counterparts</u>. This Amendment may be executed by the Parties on any number of separate counterparts, by email, and all of those counterparts taken together will be deemed to constitute one and the same instrument; signature pages may be detached from multiple separate counterparts and attached to a single counterpart so that all signatures are physically attached to the same document. The words "execution," "signed," "signature," and words of like import in this Amendment shall include images of manually executed signatures transmitted by facsimile or other electronic format (including, without limitation, "pdf", "tif" or "jpg") and other electronic signatures (including, without limitation, DocuSign and AdobeSign). The use of electronic signatures and electronic records (including, without limitation, any contract or other record created, generated, sent, communicated, received, or stored by electronic means) shall be of the same legal effect, validity and enforceability as a manually executed signature or use of a paper-based record-keeping system to the fullest extent permitted by applicable Law, including the Federal Electronic Signatures in Global and National Commerce Act, the New York State Electronic Signatures and Records Act and any other applicable Law, including, without limitation, any state law based on the Uniform Electronic Transactions Act or the Uniform Commercial Code.
- 4.2 <u>Ratification; Amended Terms</u>. Except as amended hereby the Master Repurchase Agreement remains in full force and effect. The Parties hereby acknowledge and agree that, effective from and after the Amendment Date, (i) all references to the Master Repurchase Agreement in any other Transaction Agreement shall be deemed to be references to the Amended Master Repurchase Agreement, (ii) any amendment in this Amendment of a defined term in the Master Repurchase Agreement shall apply to terms in any other Transaction Agreement which are defined by reference to the Master Repurchase Agreement.
- 4.3 <u>GOVERNING LAW</u>. THIS AMENDMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK (WITHOUT REFERENCE TO ITS CONFLICTS OF LAW PROVISIONS (OTHER THAN §5-1401 AND §5-1402 OF THE NEW YORK GENERAL OBLIGATIONS LAW, WHICH SHALL APPLY HERETO)).
- 4.4 <u>Expenses</u>. All reasonable and documented legal fees and expenses of Buyer incurred in connection with the preparation, negotiation, execution and delivery of this Amendment and each related document entered into in connection herewith and invoiced to the Seller at least one (1) Business Day prior to the Amendment Date shall be paid by the Seller promptly on the Amendment Date.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first written above.

Buyer:

MUFG BANK, LTD.

By: <u>/s/ MATT STRATTON</u>

Name: Matt Stratton
Title: Managing Director

[SIGNATURE PAGES CONTINUE ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the date first written above.

Seller:

TXU ENERGY RETAIL COMPANY LLC

By: <u>/s/ KRISTOPHER E. MOLDOVAN</u>
Name: Kristopher E. Moldovan
Title: Senior Vice President and Treasurer

Annex I

Supplemental Terms and Conditions

This Annex I forms a part of the 1996 SIFMA Master Repurchase Agreement dated as of October 9, 2020 (the "SIFMA Master," and as amended by this Annex I, this or the "Agreement") between TXU Energy Retail Company LLC, a Texas limited liability company ("TXU" or "Seller"), and MUFG Bank, Ltd. ("MUFG"). Subject to the provisions of Paragraph 1 of this Annex I, (a) capitalized terms used but not defined in this Annex I shall have the meanings ascribed to them in the SIFMA Master, and (b) aside from this Annex I, including all exhibits and schedules attached hereto and thereto, no other Annexes or Schedules thereto shall form a part of the SIFMA Master or be applicable thereunder.

1. Applicability; Parties; Framework.

- (a) *Framework Agreement*. This Agreement is being entered into in accordance with that certain Master Framework Agreement, dated as of October 9, 2020 (as amended, restated, supplemented or otherwise modified, the "Framework Agreement"), among TXU, as seller, the entities party thereto as Originators, TXU, as agent for the Seller and the Originators (in such capacity, the "Seller Party Agent") and MUFG, as buyer. Capitalized terms used but not defined in this Agreement or in any Confirmations shall have the meanings set forth in the Framework Agreement (including Schedule 1 thereto). In the event of any inconsistency between this Agreement and the Framework Agreement, the Framework Agreement shall govern.
- (b) *Seller*. TXU will act as Seller with respect to all Transactions entered into hereunder. Subject to the terms and conditions of the Framework Agreement, all powers of Seller hereunder, including the execution and delivery of Confirmations hereunder or any other matters involving consent or discretion, shall be exercised solely by Seller Party Agent on behalf of Seller.
 - (c) *Buyer*. MUFG will act as Buyer with respect to all Transactions entered into hereunder.
- (d) *Securities*. The only Security for purposes of this Agreement shall consist of the Seller Note, and no asset or property other than the Seller Note shall be recognized as a Security for purposes of any Transactions hereunder. All references in this Agreement to Securities or Purchased Securities, as the case may be (whether in the SIFMA Master or elsewhere in this Annex I) shall be understood and construed as references to the Seller Note.

(e) *Entire Agreement*. The first sentence of Paragraph 14 of the SIFMA Master is subject to, and superseded by, Section 9.3 of the Framework Agreement.

2. **Definitions**.

- (a) *Added Definitions*. For purposes of this Agreement, the following additional terms shall have the following meanings:
- (i) "Available Tenor", as of any date of determination and with respect to the then-current Benchmark, as applicable, (x) if the then-current Benchmark is a term rate, any tenor for such Benchmark or (y) otherwise, the length of any Transaction Period or portion thereof for which Pricing Rate or Price Differential for a Transaction is calculated with reference to such Benchmark;
- (ii) <u>"Benchmark"</u>, initially, ICE LIBOR; provided, that if a Benchmark Transition Event or an Early Opt-in Election, as applicable, and its related Benchmark Replacement Date have occurred with respect to ICE LIBOR or the then-current Benchmark, then "Benchmark" means the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate pursuant to clause (a) of Section 13;
- (iii) (i) "Benchmark Replacement", for any Available Tenor, with respect to any Benchmark Transition Event or Early Opt-in Election, the first alternative set forth in the order below that can be determined by Buyer and is consented to by Seller (such consent not to be unreasonably withheld) for the applicable Benchmark Replacement Date:
- (1) the sum of: (a) <u>Daily Simple SOFR and (b) the related Benchmark Replacement</u>

 Adjustment; or

the sum of: (A) the alternate benchmark rate (which may include Term SOFR) that has been selected by the Buyer and the Seller as the replacement for the then-current Benchmark for the applicable Corresponding Tenor giving due consideration to (i) any selection or recommendation of a replacement benchmark rate or the mechanism for determining such a rate by the Relevant Governmental Body or (ii) any evolving or then-prevailing market convention for determining a benchmark rate of interest as a replacement to LIBO Rate for the then-current Benchmark for U.S. dollar-denominated syndicated or bilateral credit facilities at such time and (bB) the related Benchmark Replacement Adjustment;

provided that, if, that, in the case of clause (1) above, such Unadjusted Benchmark Replacement is displayed on a screen or other information service that publishes such rate from time to time as selected by Buyer in its reasonable discretion. If the Benchmark Replacement as so determined pursuant to clause (1), or (2) above would be less than zerothe Floor, the Benchmark Replacement will be deemed to be zerothe Floor for the purposes of this Framework Agreement. and the other Transaction Agreements.

(iv) (ii) "Benchmark Replacement Adjustment", with respect to any replacement of LIBO Rate the thencurrent Benchmark with an Unadjusted Benchmark Replacement for each any applicable Transaction Period, and Available Tenor for any setting of such Unadjusted Benchmark Replacement:

- (1) for purposes of clause (1) of the definition of "Benchmark Replacement," the first alternative set forth in the order below that can be determined by Buyer and agreed to by Seller:
- <u>a)</u> the spread adjustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by the Buyer and the Selleras of the Reference Time such Benchmark Replacement is first set for such Transaction Period that has been selected or recommended by the Relevant Governmental Body for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement for the applicable Corresponding Tenor;
- b) the spread adjustment (which may be a positive or negative value or zero) as of the Reference Time such Benchmark Replacement is first set for such Transaction Period that would apply to the fallback rate for a derivative transaction referencing the ISDA Definitions to be effective upon an index cessation event with respect to such Benchmark for the applicable Corresponding Tenor; and
- djustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by Buyer and agreed to by Seller for the applicable Corresponding Tenor giving due consideration to (i) any selection or recommendation of a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of LIBO Rate with the applicable Unadjusted Benchmark Replacement by the Relevant Governmental Body such Benchmark with the applicable Unadjusted Benchmark Replacement by the Relevant Governmental Body on the applicable Benchmark Replacement Date or (ii) any evolving or then-prevailing market convention for determining a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of LIBO Rate such Benchmark with the applicable Unadjusted Benchmark Replacement for U.S. dollar-denominated syndicated credit facilities at such time.;

provided, that, in the case of clause (1) above, such adjustment is displayed on a screen or other information service that publishes such Benchmark Replacement Adjustment from time to time as selected by Buyer in its reasonable discretion;

(v) (iii) "Benchmark Replacement Conforming Changes", with respect to any—proposed Benchmark Replacement, any technical, administrative or operational changes (including, changes to the definitions of "Business Day," "LIBO Rate, " "Pricing Rate, " "Price Differential", or "Transaction Period" in the Master Repurchase Agreement, timing and frequency of determining rates and making payments of interest and other administrative matters) as Price Differential, timing of Transaction Notices, the applicability of breakage provisions and other technical, administrative or operational matters) to the Transaction Agreements that Buyer decides (in consultation with the Seller) may be appropriate, in the discretion of the Buyer, to reflect the adoption and implementation of such Benchmark

Replacement and to permit the administration thereof by the Buyer in a manner substantially consistent with market practice (or, if the Buyer determines decides that adoption of any portion of such market practice is not administratively feasible or if Buyer determines that no market practice for the administration of such Benchmark Replacement exists, in such other manner of administration as the Buyer determines decides is reasonably necessary in connection with the administration of this Framework Agreement and the other Transaction Agreements);

- (vi) (iv) "Benchmark Replacement Date", the earlier earliest to occur of the following events with respect to LIBO Rate: (1) the then-current Benchmark:
- (1) in the case of clause (A1) or (B2) of the definition of "Benchmark Transition Event," the later of (a) the date of the public statement or publication of information referenced therein and (b) the date on which the administrator of LIBO Ratesuch Benchmark (or the published component used in the calculation thereof) permanently or indefinitely ceases to provide LIBO Rate or (2) all Available Tenors of such Benchmark (or such component thereof);
- in the case of clause (€3) of the definition of "Benchmark Transition Event," the date of the public statement or publication of information referenced therein;
 - (3) [reserved]; or
- (4) in the case of an Early Opt-in Election, the sixth (6th) Business <u>Day after the date notice of such Early Opt-in Election is provided to the Seller, so long as the Buyer</u> has not received, by 5:00 p.m. (New York City time) on the fifth (5th) Business Day after the date <u>notice of such Early Opt-in Election</u>, is provided to the <u>Seller</u>, written notice of <u>objection to such Early Opt-in Election from the Seller</u>.

For the avoidance of doubt, (i) if the event giving rise to the Benchmark Replacement Date occurs on the same day as, but earlier than, the Reference Time in respect of any determination, the Benchmark Replacement Date will be deemed to have occurred prior to the Reference Time for such determination and (ii) the "Benchmark Replacement Date" will be deemed to have occurred in the case of clause (1) or (2) with respect to any Benchmark upon the occurrence of the applicable event or events set forth therein with respect to all then-current Available Tenors of such Benchmark (or the published component used in the calculation thereof);

- (<u>vii</u>) (<u>v</u>) "Benchmark Transition Event", the occurrence of one or more of the following events with respect to <u>LIBO Rate: (A) the then-current Benchmark:</u>
- (1) a public statement or publication of information by or on behalf of the administrator of LIBO Ratesuch Benchmark (or the published component used in the calculation thereof) announcing that such administrator has ceased or will cease to provide LIBO Rateall Available Tenors of such Benchmark (or such component thereof), permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide LIBO Rate, (B) any Available Tenor of such Benchmark (or such component thereof);

a public statement or publication of information by the

regulatory supervisor for the administrator of LIBO Rate, the U.S.such Benchmark (or the published component used in the calculation thereof), the Board of Governors of the Federal Reserve System, the Federal Reserve Bank of New York, an insolvency official with jurisdiction over the administrator for LIBO Ratesuch Benchmark (or such component), a resolution authority with jurisdiction over the administrator for LIBO Ratesuch Benchmark (or such component) or a court or an entity with similar insolvency or resolution authority over the administrator for LIBO Ratesuch Benchmark (or such component), which states that the administrator of LIBO Ratesuch Benchmark (or such component) has ceased or will cease to provide LIBO Rateall Available Tenors of such Benchmark (or such component thereof) permanently or indefinitely, provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide LIBO Rate or (C) any Available Tenor of such Benchmark (or such component thereof); or

a public statement or publication of information by the regulatory supervisor for the administrator of <a href="https://linear.com/l

(vi)

For the avoidance of doubt, a "Benchmark Transition Start Date", the earlier of (i) the applicable Benchmark Replacement Date and (ii) if such Benchmark Transition Event is Event" will be deemed to have occurred with respect to any Benchmark if a public statement or publication of information of a prospective event, the 90th day prior to the expected date of such event as of such public statement or publication of information (or if the expected date of such prospective event is fewer than 90 days after such statement or publication, the date of such statement or publication).(vii) set forth above has occurred with respect to each then-current Available Tenor of such Benchmark (or the published component used in the calculation thereof);

(viii) "Benchmark Unavailability Period", if a Benchmark Transition Event and its related Benchmark Replacement Date have occurred with respect to LIBO Rate and solely to the extent that LIBO Rate has not been replaced with a Benchmark Replacement, the period (if any) beginning at the time that such Benchmark Replacement Date pursuant to clauses (1)(a) or (2) of that definition has occurred if, at such time, no Benchmark Replacement has replaced LIBO Rate the then-current Benchmark for all purposes hereunder and under any Transaction Agreement in accordance with Section 13 and (y) ending at the time that a Benchmark Replacement has replaced LIBO Rate the then-current Benchmark for all purposes hereunder pursuant to and under any Transaction Agreement in accordance with Section 13.

(ix) (viii) "Breakage Amount", with respect to any Breakage Event pertaining to any outstanding Transaction, an amount equal to the loss, cost and expense (if any) actually incurred by Buyer and attributable to such Breakage Event but excluding loss of anticipated profits, in each case as determined in good faith by Buyer and notified to Seller Party Agent in writing; it being understood that any written notice from Buyer indicating such amount

and setting forth in reasonable detail the calculations used by Buyer to determine such amount, shall be conclusive absent manifest error.;

- (x) (ix)—"Breakage Event", with respect to any Transaction, (A) the termination of such Transaction before the Repurchase Date specified in the Confirmation for such Transaction (1) by Seller or Buyer in accordance with Paragraph 3(c)(ii) or Paragraph 11, respectively, of the SIFMA Master, as amended by this Annex I, or (2) as the result of the Termination Date occurring under the Receivables Purchase Agreement; or (B) the transfer of any cash by Seller to Buyer during the Transaction Period for such Transaction as required pursuant to Paragraph 4(a) of the SIFMA Master, as amended by this Annex I, if Buyer has applied such funds to the unpaid Repurchase Price with respect to such Transaction pursuant to Paragraph 4(c) of the SIFMA Master, as amended by this Annex I;
- (xi) (x)—"Breakage Period", with respect to any Breakage Event, the period commencing on (and including) (x) in the case of a Breakage Event of the type described in clause (A) of the definition thereof, the effective date of Seller's or Buyer's termination of the applicable Transaction or (y) in the case of a Breakage Event of the type described in clause (B) of the definition thereof, the date on which such cash is transferred by Seller to Buyer, and, in each case, ending on (but excluding) the next succeeding Monthly Date;
- (xii) (xi) "Framework Agreement", the meaning set forth in Paragraph 1(a) of this Annex I;Corresponding Tenor", with respect to any Available Tenor means, as applicable, either a tenor (including overnight) or an interest payment period having approximately the same length (disregarding business day adjustment) as such Available Tenor;
- (xiii) "Daily Simple SOFR", for any day, SOFR, with the conventions for this rate (which will include a lookback) being established by the Buyer in accordance with the conventions for this rate selected or recommended by the Relevant Governmental Body for determining "Daily Simple SOFR" for bilateral business loans; provided, that if the Buyer decides that any such convention is not administratively feasible for the Buyer, then the Buyer may establish another convention in its reasonable discretion;
 - (xiv) "Early Opt-in Election", if the then-current Benchmark is ICE LIBOR;
- (1) <u>a determination by Buyer or Seller that at least five (5) currently outstanding U.S. dollar-denominated syndicated or bilateral credit facilities at such time contain (as a result of amendment or as originally executed) a SOFR-based rate (including SOFR or any other rate based upon SOFR) as a benchmark rate, and</u>
 - (2) the joint election by Buyer and Seller to trigger a fallback from ICE LIBOR;
 - (xv) "Framework Agreement", the meaning set forth in Paragraph 1(a) of this Annex I;
 - (xvi) "Floor", zero percent (0.00%);

(xvii) "ISDA Definitions", the 2006 ISDA Definitions published by the International Swaps and Derivatives Association, Inc. or any successor thereto, as amended or supplemented from time to time, or any successor definitional booklet for interest rate derivatives published from time to time by the International Swaps and Derivatives Association, Inc. or such successor thereto;

(xviii) (xii)—"LIBO Rate", with respect to any Transaction Period, either (a) an interest rate per annum determined on the London interbank offered rate administered by ICE Benchmark Administration Limited (or any other Person which takes over the administration of that rate) for deposits in United States dollars for a period of time comparable to such Transaction Period as it appears on the relevant display page on the Bloomberg Professional Service (or any successor or substitute page or service providing quotations of interest rates applicable to United States dollar deposits in the London interbank market comparable to those currently provided on such page, as determined by the Buyer from time to time), at about 11:00 a.m. (London, England time) on the second Business London Banking Day preceding the first day of such Transaction Period, or (b) if a rate cannot be determined under clause (a), an annual rate equal to the average (rounded upwards if necessary to the nearest 1/100th of 1%) of the rates per annum at which deposits in U.S. Dollars with a duration comparable to such Transaction Period, in a principal amount substantially equal to the Purchase Price for the applicable Transaction, are offered to the principal London office of the Buyer by three London banks, selected by the Buyer in good faith, at about 11:00 a.m. (London, England time) on the second Business London Banking Day preceding the first day of such Transaction Period. Notwithstanding the foregoing, if the LIBO Rate as determined herein at any time would be less than zero (0.00), such rate shall be deemed at such time to be zero percent (0.00%) for purposes of this Agreement;

(xix) (xiii) "London Banking Day", any day on which commercial banks are open for general business (including dealings in foreign exchange and foreign currency deposits) in the city of London, England;

(xx) "MUFG Cost of Funds Rate", with respect to any Transaction Period, the rate per annum quoted from time to time as such by MUFG, which rate shall be determined and calculated by MUFG in its sole discretion, taking into account factors including, but not limited to, MUFG's external and internal funding costs and prevailing interbank market rates and conditions; provided, however, that as of any applicable Purchase Date, such rate shall be no greater than the cost of funds rate generally quoted by MUFG on such date in other similarly situated transactions (including, for the avoidance of doubt, taking into account any applicable currency, tenor and jurisdictional differences). Notwithstanding the foregoing, if the MUFG Cost of Funds Rate as determined herein at any time would be less than zero (0.00), such rate shall be deemed at such time to be zero percent (0.00%) for purposes of this Agreement;

(xxi) (xv) "Original Note", the original executed version of the Seller Note;

(<u>xxii</u>) "Relevant Governmental Body", the Federal Reserve Board and Reference Time", with respect to any setting of the then-current Benchmark means (1) if such Benchmark is the LIBO Rate, 11:00 a.m. (London time) on the day that is two London

Banking Days preceding the first day of the relevant Transaction Period, and (2) if such Benchmark is not the LIBO Rate, the time determined by Buyer in its reasonable discretion.

(xxiii) <u>"Relevant Governmental Body"</u>, the Board of Governors of the Federal Reserve System or the Federal Reserve Bank of New York, or a committee officially endorsed or convened by the <u>Federal Reserve</u> Board <u>and/orof Governors of</u> the Federal Reserve <u>System or the Federal Reserve</u> Bank of New York—for the <u>purpose of recommending a benchmark rate to replace the LIBO Rate in loan agreements or facilities similar to this Agreement</u>, or any successor thereto;

(<u>xxiv</u>) (<u>xxiv</u>) "SOFR", with respect to any <u>day means Business Day</u>, <u>a rate per annum equal to</u> the secured overnight financing rate <u>for such Business Day</u> published <u>for such day</u> by the <u>SOFR Administrator on the SOFR Administrator's Website on the immediately succeeding Business Day;</u>

(xxv) <u>"SOFR Administrator"</u>, the Federal Reserve Bank of New York, as the administrator of the benchmark (or a successor administrator) on the Federal Reserve Bank of New York's website (or any successor source) and, in each case, that has been selected or recommended by the Relevant Governmental Body of the secured overnight financing rate);

(xxvi) (xviii) "Term SOFR", the forward-looking term rate based on SOFR that has been selected or recommended by the Relevant Governmental Body; SOFR Administrator's Website", the website of the Federal Reserve Bank of New York, currently at http://www.newyorkfed.org, or any successor source for the secured overnight financing rate identified as such by the SOFR Administrator from time to time;

(xxvii) (xix)—"Transaction Period", with respect to any Transaction, the period commencing on (and including) the Purchase Date for such Transaction and expiring on (but excluding) the Repurchase Date for such Transaction; and

(xxviii)(xxx)"Unadjusted Benchmark Replacement", the <u>applicable</u> Benchmark Replacement excluding the <u>related</u> Benchmark Replacement Adjustment.

- (b) *Revised Definitions*. For purposes of this Agreement, and notwithstanding anything in Paragraph 2 of the SIFMA Master to the contrary, the following terms shall have the following amended and restated meanings:
- (i) "Buyer's Margin Amount", with respect to any Transaction as of any date, the amount obtained by application of the Buyer's Margin Percentage to the Purchase Price for such Transaction as of such date;
- (ii) "Buyer's Margin Percentage", with respect to any Transaction as of any date, one hundred percent (100%);
- (iii) "Price Differential", with respect to any Transaction as of any date, the sum of the aggregate amount obtained by daily application of the Pricing Rate for such Transaction to the Purchase Price for such Transaction on a 360 day per year basis for the actual number of days during the period commencing on (and including) the Purchase Date for such

Transaction and ending understood, for the avoidance of doubt, that (x) Seller shall remain liable to the Buyer for the excess of such amounts owing by Seller over any sale proceeds so applied and (y) any sale proceeds in excess of amounts owed by Seller to Buyer shall be remitted to Seller); and (iii) generally exercise any and all rights afforded to a secured party under the Uniform Commercial Code or other applicable law."

- (c) Replacement Securities Inapplicable. The provisions of Paragraphs 11(c), 11(e), and 11(f) of the SIFMA Master shall not apply to Transactions under this Agreement, and all terms and provisions thereof and references thereto (including any references to "Replacement Securities") shall be disregarded for purposes of this Agreement.
- 12. **Payment of Price Differential**. With respect to any Transaction under this Agreement, and notwithstanding anything in this Agreement to the contrary, the portion of the Repurchase Price for such Transaction consisting of the Price Differential shall, in all circumstances, be paid by Seller (or by Seller Party Agent on Seller's behalf) by wire transfer of immediately available funds to the account of Buyer set forth in Schedule 2 to the Framework Agreement on the Repurchase Date for such Transaction (or, if such Repurchase Date is not a Monthly Date, on the earlier of (i) next succeeding Monthly Date to occur following such Repurchase Date or (ii) the Facility Expiration Date), and such payment of the Price Differential shall not be subject to any setoff, netting or other application by Seller against other amounts, whether pursuant to Paragraph 12 of the SIFMA Master or otherwise.

13. Inability to Determine LIBO Rate. Benchmark Replacement Setting.

- Agreement, if a Benchmark Transition Event or an Early Opt-in Election, as applicable, and its related Benchmark Replacement Date have occurred prior to the Reference Time in respect of any setting of the then-current Benchmark, then (x) if a Benchmark Replacement is determined in accordance with clause (1) of the definition of "Benchmark Replacement" for such Benchmark Replacement Date, such Benchmark Replacement will replace such Benchmark for all purposes hereunder and under any Transaction Agreements in respect of such Benchmark setting and subsequent Benchmark settings without any amendment to, or further action or consent of any other party to, this Framework Agreement or any other Transaction Agreement and (y) if a Benchmark Replacement is determined in accordance with clause (2) of the definition of "Benchmark Replacement" for such Benchmark Replacement Date or in connection with an Early Opt-in Election, such Benchmark Replacement will replace such Benchmark for all purposes hereunder and under any Transaction Agreement in respect of any Benchmark setting on the Business Day agreed to in writing between Buyer and Seller without any amendment to this Agreement or any other Transaction Agreement.
- (b) (a) Notwithstanding anything to the contrary in this Agreement or any other Transaction Agreement, upon the occurrence of a Benchmark Transition Event, the Buyer and the Seller may amend this Agreement to replace LIBO Rate with a Benchmark Replacement Benchmark Replacement Conforming Changes. In connection with the implementation of a Benchmark Replacement, Buyer will have the right to make Benchmark Replacement Conforming Changes from time to time, in consultation with the Seller, and, any

amendments implementing such Benchmark <u>Replacement Conforming Changes will become effective with the consent of the Seller (such consent not to be unreasonably withheld).</u>

- (c) (b) The Notices; Standards for Decisions and Determinations. Buyer will promptly notify the Seller of (i) any occurrence of a Benchmark Transition Event or an Early Opt-in Election, as applicable, and its related Benchmark Replacement Date and Benchmark Transition Start Date, (ii) the implementation of any Benchmark Replacement, (iii) the effectiveness of any Benchmark Replacement Conforming Changes and (iv, (iv) the substitution of any tenor of a Benchmark with the MUFG Cost of Funds Rate pursuant to clause (d) below and (v) the commencement or conclusion of any Benchmark Unavailability Period. Any determination, decision or election that may be made by the Buyer pursuant to this Section 13, including any determination with respect to a tenor, rate or adjustment or of the occurrence or non-occurrence of an event, circumstance or date and any decision to take or refrain from taking any action or any selection, will be conclusive and binding absent manifest error and may be made in its or their sole discretion and without consent from any other party hereto the Seller or Seller Party Agent, except, in each case, as expressly required pursuant to this Section 13.
- (d) <u>Unavailability</u> of Tenor of Benchmark. Notwithstanding anything to the <u>contrary</u> herein or in <u>any</u> other <u>Transaction Agreement</u>, at any time (including in connection with the implementation of a Benchmark Replacement), if the thencurrent Benchmark is a term rate (including ICE LIBOR), then for any period during which (A) the applicable tenor for such Benchmark is not displayed on a screen or other information service that publishes such rate from time to time as selected by Buyer in its reasonable discretion or (B) the regulatory supervisor for the administrator of such Benchmark has provided a public statement or publication of information announcing that the applicable tenor for such Benchmark is or will be no longer representative, then the MUFG Cost of Funds Rate may be used instead of such Benchmark in determining the Pricing Rate for any Transaction entered into during such period.
- (e) Upon the Seller's receipt of notice of the commencement of a Benchmark Unavailability Period, the Seller may revoke any pending Transaction Notice that calculates the Pricing Rate by reference to the LIBO Rate. During any Benchmark Unavailability Period, (i) if the LIBO Rate can reasonably be determined by the Buyer pursuant to clause (b) of the definition thereof, then the LIBO Rate shall be so determined and (ii) if the LIBO Rate cannot reasonably be determined by the Buyer pursuant to clause (b) of the definition thereof, the LIBO Rate shall no longer be utilized in determining the Pricing Rate and the MUFG Cost of Funds Rate shall be used instead of the LIBO Rate in determining the Pricing Rate for each Transaction. Benchmark Unavailability Period. Upon the Seller's receipt of notice of the commencement of a Benchmark Unavailability Period, the Seller may revoke any request for a Transaction to be made at the LIBO Rate during any Benchmark Unavailability Period and, failing that, the Seller will be deemed to have converted any such request into a request for a Transaction to be made at the MUFG Cost of Funds Rate.

(d) In connection with the implementation of a Benchmark Replacement, the Buyer will have the right to make Benchmark Replacement Conforming Changes from time to time and, notwithstanding anything to the contrary herein or in any other Transaction Agreement, anyamendments implementing such Benchmark Replacement Conforming

Changes will become effective without any further action or consent of any other party to this Agreement.

- (f) Benchmark Rates. Buyer does not warrant or accept responsibility for, and shall not have any liability to the Seller hereunder or otherwise for, any loss, damage or claim arising from or relating to (i) the administration of, submission of, calculation of or any other matter related to the Benchmark, any component definition thereof or rates referred to in the definition thereof or any alternative, comparable or successor rate thereto (including any then-current Benchmark or any Benchmark Replacement), including whether the composition or characteristics of any such alternative, comparable or successor rate (including any Benchmark Replacement) will be similar to, or produce the same value or economic equivalence of, or have the same volume or liquidity as, the then-current Benchmark, (ii) the effect, implementation or composition of any Benchmark Replacement Conforming Changes made in accordance with the terms hereof or (iii) any mismatch between the Benchmark or the Benchmark Replacement and any of the Seller's other financing instruments (including those that are intended as hedges).
- (g) London Interbank Offered Rate Benchmark Transition Event. On March 5, 2021, the ICE Benchmark Administration (the "IBA"), the administrator of the London interbank offered rate, and the Financial Conduct Authority (the "FCA"), the regulatory supervisor of the IBA, announced in public statements (the "Announcements") that the final publication or representativeness date for (i) 1-week and 2-month London interbank offered rate tenor settings will be December 31, 2021 and (ii) overnight, 1-month, 3-month, 6-month and 12-month London interbank offered rate tenor settings will be June 30, 2023. No successor administrator for the IBA was identified in such Announcements. The parties hereto agree and acknowledge that the Announcements resulted in the occurrence of a Benchmark Transition Event with respect to ICE LIBOR pursuant to the terms of this Framework Agreement and that any obligation of Buyer to notify any parties of such Benchmark Transition Event pursuant to clause (c) of this Section 13 shall be deemed satisfied.

14. **Miscellaneous**.

(a) *Termination of Agreement*. The last sentence of Paragraph 15(a) of the SIFMA Master is hereby amended and restated to read as follows:

"This Agreement shall terminate on the Facility Expiration Date, except that this Agreement shall, notwithstanding such termination, remain applicable to any Transactions then outstanding."

- (b) *Notices*. The provisions of Paragraph 13 of the SIFMA Master are hereby deleted, and shall be deemed to have been replaced with the provisions of Section 9.8 of the Framework Agreement, which are hereby incorporated by reference.
- (c) *Other Inapplicable Provisions*. Paragraphs 18 and 20 of the SIFMA Master shall not be applicable to Transactions under this Agreement, and all terms and provisions thereof and references thereto shall be disregarded for purposes of this Agreement.

CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO EXCHANGE ACT RULES 13a-14(a) AND 15d-14(a), AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Curtis A. Morgan, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Vistra Corp.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 5, 2021 /s/ Curtis A. Morgan

Curtis A. Morgan Chief Executive Officer (Principal Executive Officer)

CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO EXCHANGE ACT RULES 13a-14(a) AND 15d-14(a), AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, James A. Burke, certify that:

- 1. I have reviewed this Quarterly Report on Form 10-Q of Vistra Corp.;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: November 5, 2021 /s/ James A. Burke

James A. Burke
President and Chief Financial Officer
(Principal Financial Officer)

CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Vistra Corp. (the "Company") on Form 10-Q for the period ended September 30, 2021 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Curtis A. Morgan, Chief Executive Officer of the Company, hereby certify as of the date hereof, solely for the purposes of Title 18, Chapter 63, Section 1350 of the United States Code, that to the best of my knowledge:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company at the dates and for the periods indicated.

Date: November 5, 2021 /s/ Curtis A. Morgan

Curtis A. Morgan Chief Executive Officer (Principal Executive Officer)

The foregoing certification is not deemed filed with the Securities and Exchange Commission for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (Exchange Act), and is not to be incorporated by reference into any filing of Vistra Corp. under Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, regardless of any general incorporation language of such filing.

CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report of Vistra Corp. (the "Company") on Form 10-Q for the period ended September 30, 2021 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, James A. Burke, President and Chief Financial Officer of the Company, hereby certify as of the date hereof, solely for the purposes of Title 18, Chapter 63, Section 1350 of the United States Code, that to the best of my knowledge:

- (1) the Report fully complies with the requirements of Section 13(a) or 15(d), as applicable, of the Securities Exchange Act of 1934, and
- (2) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company at the dates and for the periods indicated.

Date: November 5, 2021 /s/ James A. Burke

James A. Burke President and Chief Financial Officer (Principal Financial Officer)

The foregoing certification is not deemed filed with the Securities and Exchange Commission for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (Exchange Act), and is not to be incorporated by reference into any filing of Vistra Corp. under Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date hereof, regardless of any general incorporation language of such filing.

Mine Safety Disclosures

Safety is a top priority in all our businesses, and accordingly, it is a key component of our focus on operational excellence, our employee performance reviews and employee compensation. Our health and safety program objectives are to prevent workplace accidents and ensure that all employees return home safely and comply with all regulations.

Vistra currently owns and operates, or is in the process of reclaiming, 12 surface lignite coal mines in Texas to provide fuel for its electricity generation facilities. Vistra also owns or leases, and is in the process of reclaiming, two waste-to-energy surface facilities in Pennsylvania. These mining operations are regulated by the U.S. Mine Safety and Health Administration (MSHA) under the Federal Mine Safety and Health Act of 1977, as amended (the Mine Act), as well as other regulatory agencies such as the RCT. The MSHA inspects U.S. mines, including Vistra's, on a regular basis and if it believes a violation of the Mine Act or any health or safety standard or other regulation has occurred, it may issue a citation or order, generally accompanied by a proposed fine or assessment. Such citations and orders can be contested and appealed to the Federal Mine Safety and Health Review Commission (FMSHRC), which often results in a reduction of the severity and amount of fines and assessments and sometimes results in dismissal. The number of citations, orders and proposed assessments vary depending on the size of the mine as well as other factors.

Disclosures related to specific mines pursuant to Section 1503 of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 104 of Regulation S-K sourced from data documented at October 15, 2021 in the MSHA Data Retrieval System for the three months ended September 30, 2021 (except pending legal actions, which are at September 30, 2021), are as follows:

Mine (a)	Section 104 S and S Citations (b)	Section 104(b) Orders	Section 104(d) Citations and Orders	Section 110(b)(2) Violations	Section 107(a) Orders	Total Dollar Value of MSHA Assessments Proposed (c)	Total Number of Mining Related Fatalities	Received Notice of Pattern of Violations Under Section 104(e)	Notice of Potential to Have Pattern Under Section 104(e)	Legal Actions Pending at Last Day of Period (d)	Legal Actions Initiated During Period	Legal Actions Resolved During Period
Beckville	_	_	_	_	_	_	_	_	_	_	_	_
Big Brown	_		_	_		_	_	_	_	_	_	_
Bremond	_	_	_	_	_	_	_	_	_	_	_	_
Honeybrook Refuse Operation	_	_	_	_	_	_	_	_	_	_	_	_
Kosse	1	_	_	_	_	1	_	_	_	_	_	_
Leesburg	_	_	_	_	_	_	_	_	_	_	_	_
Liberty	_	_	_	_	_	_	_	_	_	_	_	_
Northeastern Power Cogeneration Facility	_	_	_	_	_	_	_	_	_	_	_	_
Oak Hill	_	_	_	_	_	_	_	_	_	_	_	_
Sulphur Springs	_	_	_	_	_	_	_	_	_	_	_	_
Tatum	_	_	_	_	_	_	_	_	_	_	_	_
Three Oaks	_	_	_	_	_	_	_	_	_	_	_	_
Winfield North	_	_	_	_	_	_	_	_	_	_	_	_
Winfield South	_	_	_	_	_	_	_	_	_	_	_	_

⁽a) Excludes mines for which there were no applicable events.

⁽b) Includes MSHA citations for mandatory health or safety standards that could significantly and substantially contribute to a serious injury if left unabated.

⁽c) Total value in thousands of dollars for proposed assessments received from MSHA for all citations and orders issued in the three months ended September 30, 2021, including but not limited to Sections 104, 107 and 110 citations and orders that are not required to be reported.

⁽d) There were no pending actions before the FMSHRC involving a coal or other mine.