Coal extraction data

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Climate Mitigation Services
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Vistra Energy, USA

www.luminant.com Dallas

yellow column indicates original reported units

Investor-owned

Production / Extraction data

Year	Lignite		Hard Coal		Total Coal	
	Gross production	Gross production	Gross production	Gross production	Gross production	Gross production
	Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr	Million tons/yr	Million tonnes/yr
1950						
1951						
1952						
1953						
1954						
1955						
1956						
1957						
1958						
1959						
1960						
1961						
1962						
1963						
1964						
1965						
1966						
1967						
1968						
1969						
1970						
1971						
1972						
1973						
1974						
1975	TXU / Luminant				TXU / Luminant	TXU / Luminant
1976	no earlier data				million tons	million tonnes
1977	9.0	Keystone Manual			9	**8.2**
1978	18.0				18	**16.3**
1979	25.2				25	**22.8**
1980	27.6				28	**25.0**
1981	29.6				30	**26.9**
1982	27.1				27	**24.6**
1983	28.4				28	**25.7**
1984	29.2				29	**26.5**
1985	29.8				30	**27.0**
1986	29.7				30	**27.0**
1987	28.4				28	**25.8**
1988	29.1				29	**26.4**
1989	29.9				30	**27.1**
1990	30.6				31	**27.8**
1991	28.8				29	**26.1**
1992	30.0				30	**27.2**
1993	27.6				28	**25.0**
1994	25.5	EIA Coal data			25	**23.1**
1995	26.0				26	**23.6**
1996	28.2				28	**25.6**
1997	28.2				28	**25.6**
1998	28.2				28	**25.6**
1999	28.6				29	**26.0**
2000	25.9				26	**23.5**
2001	22.8				23	**20.7**
2002	23.7				24	**21.5**
2003	24.4				24	**22.1**
2004	24.0	NMA Coal Prod Survey			24	**21.8**
2005	24.3	NMA Coal Prod Survey			24	**22.0**
2006	23.1	interpolated (NMA Coal Prod Survey (na))			23	**21.0**
2007	21.9	NMA Coal Prod Survey	Luminant (formerly TXU and Alcoa Mines)		22	**19.9**
2008	23.1	NMA Coal Prod Survey	Luminant (formerly TXU and Alcoa Mines)		23	**21.0**
2009	22.7	NMA Coal Prod Survey			23	**20.6**
2010	27.6	NMA Coal Prod Survey			28	**25.0**
2011	32.3	NMA Coal Prod Survey 2011			32	**29.3**
2012	31.0	EIA Coal Rpt 2012			31	**28.2**
2013	29.1	EIA Coal Rpt 2013	Lignite mines in Texas		29	**26.4**
2014	29.7	EIA Coal Rpt 2014			30	**27.0**
2015	29.3	EIA Coal Rpt 2015			29	**26.6**
2016	24.2	EIA Coal Rpt 2016			24	**22.0**
2017	24.8	EIA Coal Rpt 2017	Vistra 10-K 2017 shows no lignite mining, nor doe		25	**22.5**
2018	14.0	EIA Coal Rpt 2018	13.982 EIA Coal Rpt		14	**12.7**
Total	**1,101**	-	-	-	**1,101**	**998**

1977-2018 total: 1,101 million tons

Coal Types:	Lignite:	100.00%	Bituminous	0.00%	Metallurg./Anthrac.	0.00%	100.00%

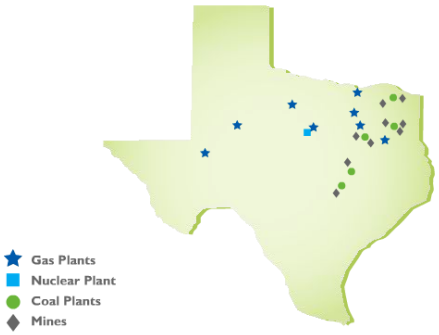
Trinidad Unit 1 comes on line in 1926: lignite plant (own coal production?)

VISTRA ENERGY

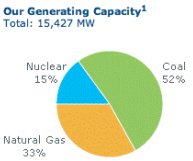
Luminant

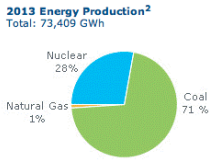
former identity

Vistra is the holding company for Luminant (and TXU)



Luminant lignite production is not reported
CMS uses NMA Coal Producer Survey data





Generation Summary

FUEL TYPE	CAPACITY (MW)	NUMBER OF PLANTS	NUMBER OF UNITS
Nuclear	2,300	1	2
Coal	8,017	5	12
Natural gas	5,110	8	26
TOTAL	15,427	14	40

[1] Includes mothballed units not currently available for dispatch
[2] Excludes purchased power

www.luminant.com/plants/generation.aspx

Martin Lake 2250 MW
Monticello 1880 MW

Cell: H9
Comment: Rick Heede:
www.luminant.com/about/Lum_History.pdf: "Luminant is part of Energy Future Holdings Corp., formerly TXU Corp. EFH's family of companies has served the power needs of much of Texas with a legacy that stretches all the way back to 1882, when the first electric light brightened the Dallas night. We are proud of our commitment to service and our role in powering the economic and civic development of the state. This brief historical timeline details the evolution of the companies that today make up EFH, which was formed as the result of a private-equity acquisition in late 2007. Beginning with 2008, the timeline focuses on Luminant alone, which marked its first full year as a separate company that year."
In the late 1960s, rising natural gas prices and the need to build new generating capacity to meet predict- ed growth caused the company to look to diversifying its traditional reliance on just one fuel. An ambitious, 25-year construc- tion program resulted in the massive addition of 5,800 megawatts of new lignite-fueled generating plants and 2,300 MW of nuclear-fueled capacity. Today, these workhorse facilities continue to be the baseload foundation of the company's power production.

Cell: D11
Comment: Rick Heede:
Coal production by coal mining companies and state-owned enterprises, including subsidiaries of oil and gas companies.

Coal types produced are not ordinarily reported by coal operators (except for metallurgical coal). We distinguish, where possible and reasonably well known, between hard (bituminous and subbituminous) and soft (lignite or peat) coals, especially for the larger companies operating in regions such as Australia and India where soft coals are predominant. Soft coals have lower carbon content per tonne than do hard coals.

Cell: B19
Comment: Rick Heede:
Luminant company history: "1952 New subsidiary is formed to mine lignite and operate an early lignite plant built to serve an aluminum facility in Rockdale in Central Texas."

Cell: B35
Comment: Rick Heede:
"1968 Joint lignite program begins, which will add 10 new generating units and six million kilowatts."

Cell: B41
Comment: Rick Heede:
"1974 Comanche Peak nuclear plant construction begins."

Cell: E44
Comment: Rick Heede:
Keystone Coal Industry Manual (1980), p. 687, shows most, if not all, Texas Utilities Company coal production in Texas (Martin Lake and Monticello mines). CMS assumes that all coal produced by TXU is lignite. This edition is the first mention of Texas Utilities coal production, and includes that 1978 production is a 50 percent gain over 1977.

Cell: B51
Comment: Rick Heede:
Luminant history: "Texas Utilities Mining Company subsidiary formed to mine and deliver Texas lignite to fuel the company's lignite fleet 1987."

Cell: B74
Comment: Rick Heede:
Luminant history: "Planned Texas coal generation units are reduced from 11 to three with a new commitment to a stronger environmental policy."

Cell: D76
Comment: Rick Heede: NMA coal producers survey 2009, 2010 pdfs, table 1;
SEC website for Luminant 10-K pg 76; production in sales only,
http://www.sec.gov/Archives/edgar/data/1023291/000119312511039696/d10k.htm

Cell: D79
Comment: Rick Heede:
EIA Annual Coal Report 2012, Table 10. Major U.S. Coal Producers, 2012: Energy Future Holdings: 31.032 million short tons.

Cell: E84
Comment: Rick Heede:
EIA (2018) Annual Coal Report for 2017, Table 10: Major U.S. Coal Producers, Vistra Energy; in million short tons.

Cell: E85
Comment: Rick Heede:
EIA (2019) Annual Coal Report for 2018, Table 10: Major U.S. Coal Producers, Vistra Energy; in 13.982 million short tons.
Reviewed Vistra Energy Corporation Form 10-K, which reports total company emissions of 135 MtCO2. No data found on lignite production, hence we use EIA Coal Report table data on production,