

RAC WORKING GROUP #3 POWER GENERATION & COSTS

PRESENTED BY:

Jose G. Treviño
Vice President of Generation Operations

September 9, 2021

Informational

OBJECTIVES & TAKEAWAYS



PROVIDE MONTHLY POWER GENERATED AND COSTS FOR SPRUCE 1, SPRUCE 2, RIO NOGALES, & VON ROSENBERG PLANTS FOR FISCAL YEARS 2019, 2020, 2021, AND YTD FOR 2022

AGENDA



- PLANT STATISTICS
- BACKGROUND INFORMATION FOR DATA
- POWER GENERATED & COSTS BY PLANT LOCATION

SPRUCE 1 & 2 PLANT STATISTICS



Plant Description							
	Unit 1	Unit 2					
Location	12940 U.S Hwy 181 South 78223, Bexar County						
Market:	ERCOT						
Unit Rating (G/N):	587 MW / 560 MW	827 MW / 785 MW					
Commercial Operation Date:	June 1, 1992	May 28, 2010					
Site Area:	3,500 Acres						
Primary Fuel:	Powder River Basin (PRB)						
Fuel Delivery:	PRB Coal by Rail with Rotary Car Dumper						
Ignition/Warmup Fuel:	Natural Gas, 10% capability	Natural Gas, 10% capability					



Coal Plants at Calaveras Power Station in southeast San Antonio.

RIO NOGALES PLANT STATISTICS



	Plant Description					
	CT1	CT2	CT3	ST	15 T	
Location:	711 Rio	Nogales Drive Seguin	n,TX 78155, Guadalupe	e County	30	
Market:		ER	сот			
Unit Rating (G/N):	160 MW / 158 MW	160 MW / 158 MW	160 MW / 158 MW	311 MW / 303 MW	N	
Commercial Operation	June 1, 2002					
Site Area:	55 acres					
Primary Fuel:	Natural Gas			N/A		
Fuel Delivery:	Natural Gas Pipeline			N/A		
Ignition/Warmup Fuel:	Natural Gas, 100% capability			N/A		

3X1 Combined Cycle Plant acquired by CPS Energy in 2012 in Seguin, TX.

VON ROSENBERG

PLANT STATISTICS



Plant Description								
	CT1	CT2	ST					
Location:	15290 Streich Rd., Elmendorf, Bexar County Texas 78112							
Market:	ERCOT							
Unit Rating (G/N):	167 MW / 164 MW	167 MW / 164 MW 167 MW / 164 MW						
Commercial Operation Date:	June 02, 2000							
Site Area:	3,800-acre site in Elmendorf, Texas							
Primary Fuel:	Natur	N/A						
Fuel Delivery:	Natural Ga	N/A						
Ignition/Warm-up Fuel:	Natural Gas, 10	N/A						



2X1 Combined Cycle Plant at Braunig Lake in southeast San Antonio.

COSTS

FUEL AND O&M



Costs identified as fuel and operating & maintenance (O&M) costs.

FUEL COSTS: Coal & Natural Gas	 Includes commodity and costs for delivery & handling Coal fuel cost is relatively stable month-to-month Natural gas fuel cost varies month-to-month Winter Storm Uri impacted natural gas fuel cost in FY2022
O&M COSTS: Fixed & Variable	 Fixed costs do not vary with generation produced while variable do Maintenance activities & improvement projects tend to increase O&M costs Capital & associated borrowing costs is not included

POWER GENERATION

OVERVIEW



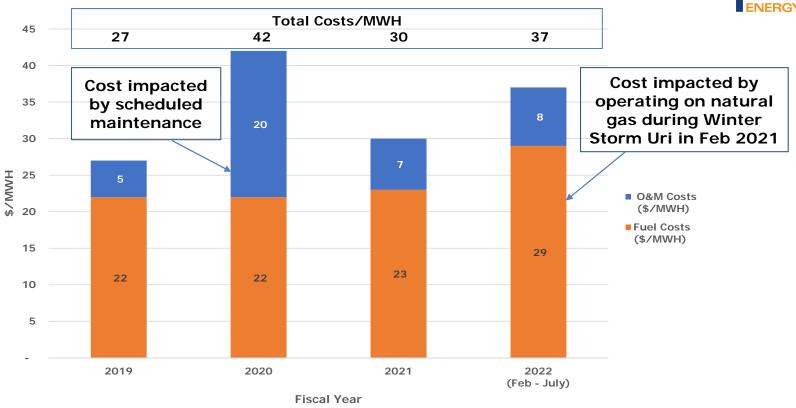
	SPRUCE 1 (560MW Net)			SPRUCE 2 (785MW Net)		RIO NOGALES (777MW Net)			VON ROSENBERG (518MW Net)			
Fiscal Year	Net Gen (MWH)	Fuel Costs (\$/MWH)	O&M Costs (\$/MWH)	Net Gen (MWH)	Fuel Costs (\$/MWH)	O&M Costs (\$/MWH)	Net Gen (MWH)	Fuel Costs (\$/MWH)	O&M Costs (\$/MWH)	Net Gen (MWH)	Fuel Costs (\$/MWH)	O&M Costs (\$/MWH)
2019	3,136,330	22	5	3,903,002	21	7	3,335,353	23	5	3,445,397	19	3
2020	1,863,506	22	20	4,508,998	21	4	4,134,069	18	5	3,389,594	13	4
2021	2,417,657	23	7	3,393,794	21	8	4,120,541	16	5	2,938,041	17	7
2022 (Feb - July)	1,322,993	29	8	2,447,486	18	3	2,171,024	25	4	1,510,499	28	4

Net generation varies year over year with market conditions & planned maintenance activities.

SPRUCE 1

FUEL & O&M COSTS



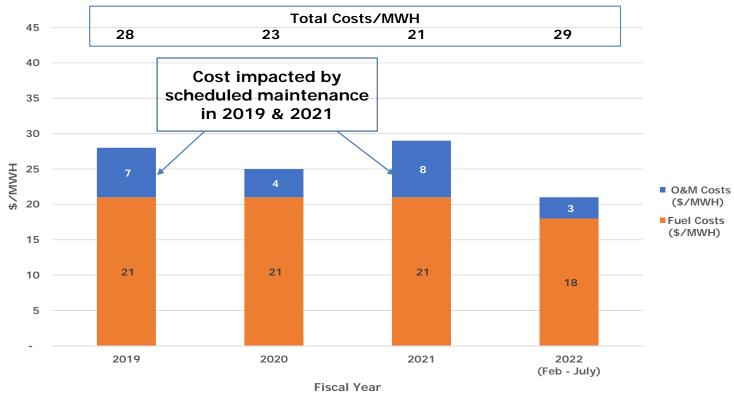


Price per MWH driven by scheduled maintenance in 2020 & natural gas fuel costs in 2022.

SPRUCE 2

FUEL & O&M COSTS



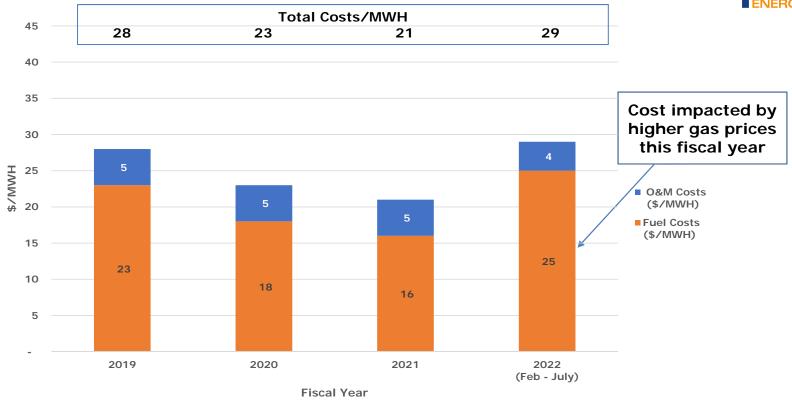


Price per MWH driven by scheduled maintenance in 2019 & 2021.

RIO NOGALES

FUEL & O&M COSTS



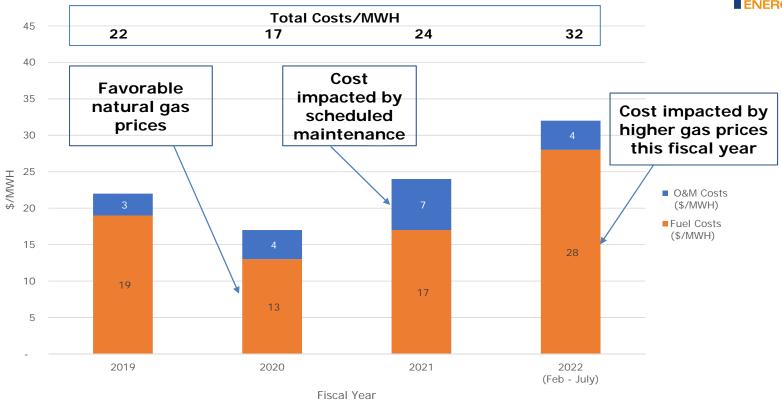


Price per MWH driven by natural gas fuel costs in all years.

VON ROSENBERG

FUEL & O&M COSTS





Price per MWH driven by natural gas fuel costs in all years & scheduled maintenance in 2021.

SUPPORTING INFORMATION



PROVIDED IN SEPARATE DATA SHEET



Thank You