

Control Number: 50277



Item Number: 81

Addendum StartPage: 0

SOAH DOCKET NO. 473-20-2278

DOCKET NO. 50277

APPLICATION OF EL PASO	e	
ALL DICATION OF ELLIAGO	8	
ELECTRIC COMPANY TO AMEND	§	BEFORE THE STATE OFFICE
ITS CERTIFICATE OF	§	
CONVENIENCE AND NECESSITY	§	OF
FOR AN ADDITIONAL GENERATING	§	
UNIT AT THE NEWMAN	Š	ADMINISTRATIVE HEARINGS
GENERATING STATION IN EL PASO	§	
COUNTY AND THE CITY OF	Š	
EL PASO	§	
	-	

WORKPAPERS

OF

OMAR GALLEGOS

FOR

EL PASO ELECTRIC COMPANY

MAY 2020

RECEIVED

MAY 2 0 2020

El Paso Electric Company Loads & Resources 2019-2028 May 13, 2019

											1
	2930	2001	2024	2003	2834	2005	200	2027	2038	2086	Generation Add 100 MW Solar (2
D GENERATION RÉSOURCES	1	- 1	-	١ ١	- 1	1	ľ	1	1	1	Solar/Batt Comb
1 1 RIO GRANDE	278	278	278	232	232	232	232	232	232	232	(75 MW at Pea
1.2 NEWMAN	736	736	736	584	584	584	584	262	262	262	Stand-alone Batt
13 COPPER	63	63	63	63	63	63	63	63	63	63	Newmen 6 GT5
1.4 MONTANA	352	352	352	352	352	352	352	352	352	352	Drop In 1x1 CC
15 PALO VERDE	633	633	633	633	633	633	633	633	633	633	125 MW Solar (3
16 RENEWABLES	6	6	6	6		6		6	6	6	Recip Engines (
17 STORAGE	1 1	-1	-1	50	50	50	50	50	50	50	1
1 8 POSSIBLE EMERGING TECHNOLOGY EXPANSION(1)	- I	- 1	- {			40	40	40	40	40	Unit Retiremen
19 NEW BUILD (lecal)	1	- 1	-1	226	226	226	226	226	226	226	Rio Grande 6 (4)
O TOTAL GENERATION RESOURCES (7)	2,068	2,068	2,068	2,146	2,146	2,188	2,186	1,864	1,864	1,864	Rio Grande 7 (4)
0 RESOURCE PURCHASES	1 1	- 1				1					Newman 1 (76M Newman 2 (76M
2 1 RENEWABLE PURCHASE (SunEdmon & NRG)	29	29	28	28	28	28	27	27	27	27	Newman 3 (95M
	3	3	3	3	3	3	3	3	3	a l	Newman 4 CC (
2.2 RENEWABLE PURCHASE (Hatch)	34	34	34	34	34	34	33	33	33	33	Copper (63MW)
2.3 RENEWABLE PURCHASE (Mecho Springs)	34	34	7	7	7	7	7	7	7	33	
2 4 RENEWABLE PURCHASE (Juwi) 2 5 NEW RENEWABLE/ BATTERY PURCHASE	1 4	′1	100	100	100	100	100	100	131	131	Rio Grande 8 (1-
2.6 RESOURCE PURCHASE	l ∞	110	35	100	100	100	اس.	70	20	70	
	153	183	207	172	171	171	171	240	20	271	Renewable Pur
2.0 TOTAL RESOURCE PURCHASES (4)	193	183	201	1/2	1/1	""	"	240	221	4 "	SunEdean, NR
0 TOTAL NET RESOURCES (1 0 + 2.0)	2,221	2,251	2,275	2,318	2,317	2,367	2,367	2,104	2,086	2,135	purchases re
0 SYSTEM DEMAND											
41 NATIVE SYSTEM DEMAND	2,032	2,079	2,113	2,145	2.174	2,217	2,267	2,298	2,333	2.385	Company Own
	2,032	(16)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	Renewable Res
42 DISTRIBUTED GENERATION® 43 ENERGY EFFICIENCY	(6)	(12)	(19)	(25)	(31)	(37)	(43)	(49)	(56)	(62)	of EPE Com
44 UNE LOSSES	(7)	(7)	(7)	(7)	(3)	(3)	(20)	(7)	(7)		Stanton, Wra
45 INTERRUPTIBLE SALES	(59)	(59)	(59)	(59)	(59)	(59)	(50)	(59)	(59)	(59)	and Van Hon
45 INTERROPTIBLE SALES	(39)	(55)	(35)	(33)	(35)	(35)	(30)	130)	(30)	(00)	and van Hon
10. TOTAL SYSTEM DEMAND (4.1-(4.2+4.3+4.4+4.5)) (1)	1,962	1,984	2,006	2,032	2,055	2,093	2,126	2,100	2,190	2,235	Resource Purc This purchai
0 MARGIN OVER TOTAL DEMAND (3 0 - 5 0)	269	266	269	286	262	264	231	(54)	(106)	(100)	through (i) si
	1 /	1				ļ				[Freeport Mo
7 0 PLANNING RESERVE 16% OF TOTAL SYSTEM DEMAND	293	298	301	306	308	314	319	324	328	335	(ii) Four Con
8.0 MARGIN OVER RESERVE (6.0 - 7.0)	-24	(31)	-32	(19)	(46)	(50)	(96)	(390)	(434)	(436)	retired, and (
	1	(0.)		(,	(,	,,	()	(,	,,,,,	,,	

Generation Additions
100 MW Soler (25 MW at Peak) in 2022
Solar/Batt Combo (10050 MW) in 2022
(75 MW at Peak) in 2022
Stand-alone Battery (50 MW) in 2023
brop, in 1x1 Cc (320 MW) Total) in 2023
Drop, in 1x1 Cc (320 MW) Total) in 2023
Recip Engines (50 MW) in 2028

125 SOLAR

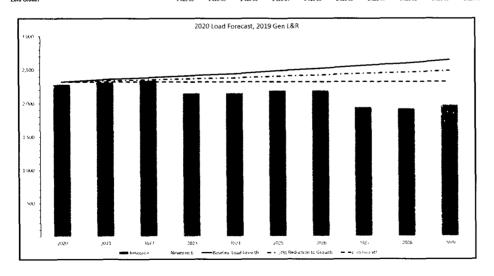
Unit Retirements
Ro Grande 5 (45MW)²
Ro Grande 7 (46MW) - December 2022
Newman 1 (76MW) - December 2022
Newman 2 (76MW) - December 2022
Newman 3 (76MW) - December 2026
Newman 4 CC (227MW) - December 2026
Newman 4 CC (227MW) - December 2026
Ro Grande 5 (144MW) - December 2038
Ro Grande 5 (144MW) - December 2033

Renewable Purchases SunEdean, NRG, Macho Springs, Juwi, and Hatch solar purchases reflect 70% availability at Peak

Company Owned Renewables
Renewable Resources shown in line item 1.6 consists
of EPE Community Solar Holloman Solar, EPCC,
Stanton, Warngler, Rio Grande & Newman Carports
and Van Hom

Resource Purchase
This purchase is supported by firm transmission
through (i) armultaneous buylved with
Freeport McMoRan (formartly Phelps Dodga)
(ii) Four Comers switchyard after Four Comers
retired, and (ii) SPS via the Eddy Tie

Baseline Load Growth 50% Reduction to Growth	-11v +	10111167 2021 - 2 25 ~	netra na n pot s	13103 N.⊕1 12103	י איינון: 10,יינון: 1970 פי	a tate de Lasteria Lasteria	7.01.48° ≈ 1 245° ≈ 7.3.47° 3°	3,0%2 3,338 17 2741 3	. 213 186 186	2,000 pg 2,000 pg 2,000 pg
Zero Growth	2.9h = 1	91) 5	11. 17	, 42.Fr	101 5	1.351. 17	rice g,	2 197 57	* * * * *	
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Newman 6			-	226	226	226	226	226	226	226
Resources	2 287	2 316	2 341	2 156	2 157	2 197	2 196	1944	1 924	1 974
Baseline Load Growth	2 320 55	2 357 70	2 382 81	2 412 79	2 439 23	2 482 15	2 520 47	2 560 09	2 594 14	2 646 01
50% Reduction to Growth	2 320 55	2 339 75	2 352 52	2 367 91	2 381 30	2 402 92	2 422 05	2 441 65	2 458 41	2 483 73
Zero Crouth	2 220 55	2 220 66	2 220 55	2 220 66	2 220 55	2 320 55	2 320 55	2 320 55	2 320 66	2 320 55



El Paso Electric Company Loads & Resources 2019-2028 May 13, 2019

SATTLE /

2020 2021 2022 2028 2024 2028 2028 2027 10 GENERATION RESOURCES 10 GENERATION RESOURCES
11 RIO GRANDE
12 NEWMAN
13 COPPER
14 MONTANA
15 PALO VERDE
16 RENEWABLES
17 STORAGE
18 POSSIBLE EMERGING TECHNOLOGY EXPANSION⁽¹⁾
19 NEW BUILD Docah
10 TOTAL GENERATION RESOURCES ⁽²⁾ 278 736 63 352 633 232 584 63 352 633 6 278 736 63 352 633 584 63 352 633 6 262 63 352 633 6 584 63 352 633 262 63 352 633 6 262 63 352 633 736 63 352 633 226 226 1,814 226 226 226 1,814 2 068 2.068 2.0 RESOURCE PURCHASES 2.0 RESOURCE PURCHASES
2.1 RENEWABLE PURCHASE (SUNEdwon & NRG)
2.2 RENEWABLE PURCHASE (Hatch)
2.3 RENEWABLE PURCHASE (Macho Springs)
2.4 RENEWABLE PURCHASE (Jum)
2.5 NEW RENEWABLE BATTERY PURCHASE
2.6 RESOURCE PURCHASE
2.0 TOTAL RESOURCE PURCHASES 29 3 34 7 27 29 28 3 34 7 100 27 27 27 3 33 7 100 3 33 7 131 7 100 100 3.0 TOTAL NET RESOURCES (10+2.0) 2.257 2.054 2,035 2,005 2,221 2,251 2,275 2.268 2,307 2.307 4.0 SYSTEM DEMAND 2,032 (8) (6) (7) (59) 2,079 (16) (12) (7) (59) 2,145 (22) (25) (7) (59) 2,174 (22) (31) (7) (59) 2,217 (22) (37) (7) (59) 2,257 (22) (43) (7) (59) 2,298 (22) (49) (7) (59) 2,333 (22) (56) (7) (59) 2,385 (22) (62) (7) (59) 2,113 (22) (19) 41 NATIVE SYSTEM DEMAND 42 DISTRIBUTED GENERATION(5) 43 ENERGY EFFICIENCY 2,235 50 TOTAL SYSTEM DEMAND (4.1-(4.2+4.3+4.4+4.5)) 6.0 MARGIN OVER TOTAL DEMAND (3 0 - 5.0) 212 214 181 (155) (150) 335 7.0 PLANNING RESERVE 16% OF TOTAL SYSTEM DEMAND 293 298 301 305 308 314 319 324 329 (486) (430) BO MARGIN OVER RESERVE (6.0 - 7.0) -24 (31) -32 (63) (96) (100) (138) (484)

125 SOLAR

Generation Additions 100 MW Solar (25 MW at Peak) in 2022 Solar/Batt Combo (100/50 MW) in 2022 Scler/Batt Combo (100/50 MW) in 2022 (75 MW al Peek) Stand-alone Battery (50 MW) in 2023 Newman 6 GT5 (226 MW) in 2023 Drop_in 1x1 CC (320 MW Total) in 2027 125 MW Solar (31 MW at Peek) in 2028 Recip Engines (50 MW) in 2028

Unit Retirements Rio Grande 6 (45MW)*

Rio Grande 6 (45MW) - December 2022 Newman 1 (76MW) - December 2022 Newman 1 (76MW) - December 2022 Newman 2 (76MW) - December 2022 Newman 3 (56MW) - December 2026 Newman 4 CC (227MW) - December 2026 Copper (63MW) - December 2030 Rio Grande 8 (144MW) - December 2030

Renewable Purchases SunEdison, NRG, Macho Springs, Juwi, and Hatch solar purchases reflect 70% availability at Peak

Company Owned Renewables
Renewable Resources shown in line item 1.6 consists
of EPE Community Solar Holloman Solar, EPCC
Stanton Wangler, Rio Grande & Newman Carports
and Van Horn

source Purchase
This purchase is supported by firm transmission
through (i) simultaneous buylfield with
Freeport McMoRan (formerly Phelps Dodge)
(ii) Four Corners switchyard after Four Corners
retred, and (iii) SPS was the Eddy Tie

- Emerging technologies may include customer or other distributed resources as well as additional community sola
 Generation unit retirements are consistent with the 2018 IRP

- Emerging technologies may include outsomer or other distributed resources as well as additional community solar
 Generation in retrements are consistent with the 2018 RPP
 Ro Grandle 6 is classified as inactive reserve
 Purchases based on existing and selimited future purchases including renewable purchases. The recently passed NM Energy Transition Act is pending Commission rulemaking. Future resource additions for NM RPS may modify this L&R
 Forceasted Detributed Generation incremental growth is denoted in line 4.2. These values are in addition to the existing 45 MW oraline at the end of 2018. DG resources added through 2025 reflect 18.9% availability at peak
 System Demand based on 2019 long-term Forceat dated April 9.2019
 Includes state-required targets for Energy Efficiency
 Interruptible load reflects current contracts
 T. Cong-term resource needs will be evaluated based on system needs and are subject to change
 The resource expansions in 2022 4.2023 are subject to RFP results and may be in combination with renewables and/or others resources
 O. Additional small renewable projects being pursued and if implemented, will endure the capacity need in fluture years
 EPE is exploring additional renewable resources to satisfy RPS requirements and if acquired those resources may impact the L&R as well as planned additions.

		TH HISE	(0.0	(LIVER)	and the same of	医食物 品	0.0.150	0.0162	2.013"	0.0206
Baseline Load Growth	. on a	, 150°°,	" n = n	, 12MF31.	2 12/197	2,158,39	2, 1941 771	2 226 17	2 255.77	2 300 84
50% Reduction to Growth	ant. a	204+17	JOH , 78	1056.33	2070,70	2009,50	2106.13	2123.20	2137.75	2159.76
Zero Growth	-017 .7	2011.15	សា ៩	2000	2007-15	20.37	201737	201757	201757	2 017 87
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Newman 6		-	-	226	226	226	226	226	226	226
Resources	2 287	2 316	2 341	2 108	2,107	2 147	2 146	1 894	1 874	1 924
Baseline Lond Growth	2 320 55	2,357 70	2 382 81	2,412 79	2 439.23	2 482 15	2,520 47	2 500 09	2 594 14	2,646 01
50% Reduction to Growth	2 320 55	2,339.75	2 352 62	2 367,91	2 381 30	2 402 92	2,422 05	2 441 68	2,458 41	2,483 73
Zero Growth	2 320 55	2 320 55	2 320 55	2 320 55	2.320 55	2 320 55	2 320 55	2.320 55	2 320 55	2 320 55

