Attachment A-1: Acronyms

ACE	-	Affordable Clean Energy
A/C	-	Air/Conditioning
ADSTF	-	Anchor Data Set Task Force
AMI	-	Advanced Metering Initiative
AMS	-	Automated Metering System
APS	-	Arizona Public Service Company
ATC	-	Available Transfer Capacity
BA	-	Balancing Area
BPSPRTF	-	BPS Planning Task Force
BTM	-	Behind the Meter
Btu	-	British thermal unit
CAA	-	Clean Air Act
CAGR	-	Compound Annual Growth Rates
CAISO	-	California Independent System Operator
CC	-	Combined Cycle
CCGT		Combined Cycle Gas Turbine
CCN	-	Certificate of Convenience and Necessity
CDD	-	Cooling Degree Days
CO2	-	Carbon Dioxide
CPP	-	Clean Power Plan
CPP	-	Critical Peak Pricing
CT	-	Combustion Turbine
cts		Cents
CWIP	-	Construction Work in Progress
DG	-	Distributed Generation
DR	-	Demand Response
DRPP	-	Demand Response Pilot Program
DS	-	Data Subcommittee
DSM	-	Demand Side Management
E3	-	Energy+Envronmental Economics
EE	-	Energy Efficiency
EHV	-	Extra High Voltage
EIM	-	Energy Imbalance Market
ELCC	-	Effective Load Carrying Capability
EPA	-	Environmental Protection Agency
EPE	-	El Paso Electric
ERCOT	-	Electric Reliability Council of Texas
EUEA	-	Efficient Use of Energy Act
EUL	-	Average Estimated Useful Life
EV	-	Electric Vehicle
FCPP	-	Four Corners Power Plant
FERC	-	Federal Energy Regulatory Commission
FPPCAC	-	Fuel and Purchased Power Cost Adjustment Clause
GE	-	General Electric
GHG	-	Greenhouse Gas
GWh		Giga Watt hours (1000 MWh)
H2	-	Hydrogen
HFAB	-	Holloman Air Force Base
HDD	-	Heating Degree Days
HV	-	High Voltage
HVAC	-	Heating, Ventilation, and Air Conditioning
HVDC	-	High Voltage Direct Current
IBR	-	Inverter Based Resource
ICAP	-	Installed Capacity
IOU	-	Investor Owned Utility
IRP	-	Integrated Resource Plan
ITC	-	Investment Tax Credit
JSIS	-	Joint Synchronized Information Subcommittee
kV	-	kilo Volt
kVA	-	kilo Volt Ampere
kW	-	kilo Watts
kWh	-	kilo Watt hours
L&R	-	Loads and Resources Table
LC	-	Least Cost
LCOE	-	Levelized Cost of Energy
LED	-	Light Emitting Diode
LF	-	Load Factor
LOLE	-	Loss of Load Expectation
LM	-	Load Management
LRTF	-	Loads and Resources Task Force
LTPPA	-	Long-Term Purchased Power Agreement
MMBtu	-	One million British thermal units
MMcf	-	One Million cubic feet (gas)
MPS	-	Montana Power Station
MS	-	Modeling Subcommittee
MVA	-	Mega Volt Amp
MVS	-	Modeling and Validation Subcommittee
MW	-	Mega Watt (1,000 kW)
MWh	-	MegaWatt-hours (1,000 kWh)
NAAQS	-	National Ambient Air Quality Standards
NARUC	-	National Association of Regulatory Utility Commissioners
NERC	-	North American Electric Reliability Council
NMAC	-	New Mexico Administrative Code
NMPRC	-	New Mexico Public Regulation Commission
NMSA	-	New Mexico Statutes Annotated
NOAA	-	National Oceanic and Atmospheric Administration
NOx	-	Nitrogen Oxide
NREL	-	National Renewable Energy Laboratory
O&M	-	Operation and Maintenance Expenses
OASIS	-	Open Access Same Time Information Systems
OATT	-	Open Access Transmission Tariff
PCAP	-	Perfect Capacity
PM	-	Particulate Matter
PNM	-	Public Service Company of New Mexico
PPA	-	Power Purchase Agreement
PRM	-	Planning Reserve Margin
PSLF	-	Positive Sequence Load Flow
PTP	-	Point to Point Transmission Service
PTR	-	Peak Time Rebate
PUCT	-	Public Utility Commission of Texas
PUHCA	-	Public Utility Holding Company Act
PURPA	-	Public Utility Regulatory Policies Act
PV	-	solar photovoltaic
PVNGS	-	Palo Verde Nuclear Generating Station
QF	-	Qualifying Facility
RASS	-	Residential Appliance Saturation Survey
RAC	-	Reliability Assessment Committee
RCT	-	Reasonable Cost Threshold
REA	-	New Mexico Renewable Energy Act
REC	-	Renewable Energy Certificate
Recip	-	Reciprocating Engine
RFP	-	Request For Proposal
RGEC	-	Rio Grande Electric Co Operative
RPS	-	Renewable Portfolio Standard
SCR	-	Short Circuit Ratio
RTO	-	Regional Transmission Organization
SDS	-	Scenario Development Subcommittee
SEC	-	Securities and Exchange Commission
SNMIC	-	Southern New Mexico Import Capability
SNMTS	-	Southern New Mexico Transmission System
SO2	-	Sulfur dioxide
SPP	-	Southwest Power Pool
SRS	-	System Review Subcommittee
SRP	-	Salt River Project
STATCOM	-	Static Compensator
SSP	-	Separate System Planning
SVC	-	Static VAR Compensator
StS	-	Studies Subcommittee
SWAT	-	Southwest Area Transmission
TOD	-	Time-of-Day
TEP	-	Tucson Electric Power Company
TOU	-	Time-of-Use
TTC	-	Total Transfer Capability
UPC	-	use per customer
UVLS		Under Voltage Load Shed
VAR	-	volt-ampere reactive
VOC	-	Volatile Organic Compounds
WECC	-	Western Electricity Coordinating Council
WSCC	-	Western Systems Coordinating Council
WSPP	-	Western Systems Power Pool

APPENDIX A
EL PASO ELECTRIC COMPANY
2021-2030 DEMAND AND ENERGY FORECAST

Summary

ENERGY (GWH)	2020 (1)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-YR (7) CAGR
Native System Forecast (NFL) (2)												
Upper Bound		9,127	9,337	9,496	9,640	9,789	9,954	10,134	10,317	10,510	10,712	
Expected:	8,674	8,848	9,057	9,210	9,348	9,489	9,645	9,816	9,989	10,171	10,361	**1.8**
Lower Bound		8,568	8,776	8,925	9,055	9,188	9,336	9,498	9,661	9,831	10,009	
Less: DG (3)		37	73	104	134	164	194	224	254	283	312	
Less: EE (4)		40	81	121	161	202	242	282	323	363	403	
Plus: EV (5)		1	2	4	6	8	12	16	22	30	40	
Native System Energy												
Upper Bound		9,051	9,183	9,268	9,338	9,413	9,504	9,611	9,722	9,846	9,980	
Expected:	**8,674**	**8,772**	**8,905**	**8,989**	**9,058**	**9,131**	**9,221**	**9,325**	**9,435**	**9,555**	**9,685**	**1.1**
Lower Bound		8,492	8,627	8,710	8,777	8,849	8,937	9,040	9,147	9,264	9,390	
Total System Net Energy (6)												
Upper Bound		9,014	9,145	9,229	9,299	9,372	9,463	9,569	9,681	9,804	9,938	
Expected:	**8,507**	**8,735**	**8,868**	**8,952**	**9,021**	**9,094**	**9,184**	**9,288**	**9,398**	**9,518**	**9,648**	**1.3**
Lower Bound		8,455	8,591	8,675	8,743	8,815	8,904	9,007	9,114	9,231	9,358	
DEMAND (MW)												
Native System Forecast (NFL)												
Upper Bound		2,259	2,313	2,354	2,384	2,426	2,466	2,510	2,547	2,599	2,647	
Expected:	2,173	2,137	2,188	2,225	2,252	2,292	2,330	2,371	2,406	2,457	2,503	**1.4**
Lower Bound		2,016	2,062	2,096	2,120	2,158	2,193	2,232	2,266	2,314	2,358	
Less: DG		9	19	26	34	41	49	56	64	71	79	
Less: EE		8	15	23	31	38	46	54	62	69	77	
Plus: EV		0	1	2	3	4	6	8	11	15	20	
Native System Demand:												
Upper Bound		2,242	2,280	2,305	2,319	2,346	2,371	2,400	2,424	2,463	2,500	
Expected:	**2,173**	**2,121**	**2,155**	**2,177**	**2,190**	**2,216**	**2,240**	**2,269**	**2,292**	**2,331**	**2,367**	**0.9**
Lower Bound		1,999	2,030	2,050	2,061	2,086	2,109	2,137	2,159	2,198	2,234	
Total System Demand												
Upper Bound		2,232	2,269	2,294	2,309	2,336	2,361	2,390	2,413	2,453	2,489	
Expected:	**2,147**	**2,112**	**2,146**	**2,168**	**2,181**	**2,207**	**2,231**	**2,260**	**2,283**	**2,322**	**2,358**	**0.9**
Lower Bound		1,991	2,022	2,042	2,053	2,079	2,102	2,130	2,152	2,191	2,226	
Interruptible Load		56	56	56	56	56	56	56	56	56	56	
Upper Bound		2,176	2,211	2,235	2,248	2,274	2,299	2,327	2,350	2,390	2,426	
Expected:	**2,147**	**2,056**	**2,090**	**2,112**	**2,125**	**2,151**	**2,175**	**2,204**	**2,227**	**2,266**	**2,302**	**0.7**
Lower Bound		1,935	1,968	1,990	2,002	2,028	2,052	2,080	2,103	2,142	2,178	

Footnotes:
(1) 2020 are Actual data, Native System Peak occurred on July 13.
(2) Net For Load is forecasted load before the removal of DG and EE.
(3) Impact from Distributed Generation.
(4) Impact from Energy Efficiency.
(5) Impact from Electric Vehicles.
(6) Total System includes transmission wheeling Losses To Others.
(7) 10-Year Compounded Average Growth Rate.

/s/ James Schichtl
Jim Schichtl
Vice President & Government Affairs

APPENDIX A
EL PASO ELECTRIC COMPANY
2031-2040 DEMAND AND ENERGY FORECAST

Summary

ENERGY (GWH)	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	20-YR (1) CAGR
Native System Forecast (NFL)											
Upper Bound	10,915	11,117	11,328	11,548	11,773	12,000	12,232	12,471	12,717	12,979	
Expected:	10,551	10,740	10,937	11,143	11,354	11,566	11,784	12,007	12,238	12,484	**1.8**
Lower Bound	10,187	10,362	10,547	10,738	10,935	11,133	11,335	11,543	11,758	11,989	
Less: DG	341	371	399	428	457	485	513	541	569	597	
Less: EE	444	484	524	565	605	646	686	726	767	807	
Plus: EE (5)	54	72	95	126	167	221	291	384	507	668	
Native System Energy:											
Upper Bound	10,119	10,262	10,421	10,596	10,786	10,993	11,223	11,482	11,780	12,135	
Expected:	**9,819**	**9,957**	**10,109**	**10,276**	**10,459**	**10,657**	**10,876**	**11,124**	**11,408**	**11,748**	**1.5**
Lower Bound	9,519	9,651	9,797	9,957	10,132	10,320	10,529	10,765	11,037	11,361	
Total System Net Energy:											
Upper Bound	10,077	10,220	10,379	10,553	10,744	10,951	11,180	11,440	11,738	12,093	
Expected:	**9,782**	**9,920**	**10,072**	**10,239**	**10,422**	**10,619**	**10,839**	**11,087**	**11,371**	**11,711**	**1.6**
Lower Bound	9,487	9,619	9,765	9,925	10,100	10,288	10,497	10,733	11,005	11,329	
DEMAND (MW)											
Native System Forecast											
Upper Bound	2,695	2,736	2,793	2,844	2,897	2,943	3,006	3,062	3,120	3,174	
Expected:	2,549	2,587	2,642	2,692	2,743	2,786	2,846	2,900	2,956	3,007	**1.6**
Lower Bound	2,402	2,439	2,492	2,539	2,588	2,629	2,687	2,739	2,792	2,841	
Less: DG	86	93	101	108	115	122	129	136	143	150	
Less: EE	85	92	100	108	115	123	131	138	146	154	
Plus: EV	26	35	46	61	81	107	142	187	247	325	
Native System Demand:											
Upper Bound	2,538	2,571	2,623	2,674	2,731	2,788	2,870	2,957	3,060	3,179	
Expected:	**2,404**	**2,436**	**2,488**	**2,538**	**2,593**	**2,648**	**2,728**	**2,813**	**2,913**	**3,028**	**1.7**
Lower Bound	2,270	2,302	2,352	2,401	2,455	2,509	2,587	2,669	2,766	2,877	
Total System Demand:											
Upper Bound	2,527	2,561	2,613	2,664	2,721	2,778	2,859	2,946	3,050	3,169	
Expected:	**2,395**	**2,427**	**2,479**	**2,529**	**2,584**	**2,639**	**2,719**	**2,804**	**2,904**	**3,019**	**1.7**
Lower Bound	2,263	2,294	2,345	2,394	2,448	2,501	2,579	2,661	2,758	2,869	
Interruptible Load:	56	56	56	56	56	56	56	56	56	56	
Upper Bound	2,464	2,497	2,549	2,600	2,657	2,714	2,795	2,882	2,986	3,105	
Expected:	**2,339**	**2,371**	**2,423**	**2,473**	**2,528**	**2,583**	**2,663**	**2,748**	**2,848**	**2,963**	**1.6**
Lower Bound	2,214	2,246	2,297	2,345	2,400	2,453	2,531	2,613	2,710	2,821	

Footnotes:
(1) 20-Year Compounded Average Growth Rate.

Attachment B-2: 2021 Energy Forecast by Jurisdiciton

Native System Energy	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Texas										
Residential	2,692,520	2,748,587	2,801,562	2,843,496	2,889,745	2,944,841	3,012,227	3,084,291	3,159,861	3,244,321
Commercial & Industrial, Small	1,973,888	1,995,427	2,000,737	2,002,237	2,004,005	2,008,668	2,014,241	2,019,958	2,027,824	2,037,463
Commercial & Industrial, Large	972,050	976,384	980,005	982,995	985,436	987,399	988,946	990,130	990,999	991,593
Street Lighting	41,523	42,056	42,506	42,961	43,420	43,880	44,323	44,748	45,182	45,638
OPA	1,174,580	1,193,922	1,204,821	1,215,937	1,225,800	1,235,383	1,243,747	1,248,233	1,255,232	1,262,597
Total Texas	**6,854,561**	**6,956,376**	**7,029,630**	**7,087,627**	**7,148,407**	**7,220,171**	**7,303,485**	**7,387,360**	**7,479,098**	**7,581,613**
New Mexico										
Residential	845,381	861,706	869,009	875,821	883,079	893,542	906,021	920,404	936,823	953,648
Commercial & Industrial, Small	528,935	537,058	539,270	541,194	544,879	550,415	556,939	565,072	573,385	580,047
Commercial & Industrial, Large	75,359	74,520	73,908	73,388	72,906	72,438	71,976	71,517	71,059	70,602
Street Lighting	1,981	2,020	2,052	2,083	2,117	2,150	2,184	2,218	2,253	2,287
OPA	382,321	388,510	389,208	390,516	390,895	391,781	393,250	395,190	397,707	401,206
Total New Mexico	**1,833,976**	**1,863,814**	**1,873,447**	**1,883,002**	**1,893,875**	**1,910,326**	**1,930,371**	**1,954,401**	**1,981,227**	**2,007,790**
Company Use	13,815	13,940	14,065	14,192	14,319	14,448	14,578	14,709	14,842	14,975
RGEC	69,263	70,552	71,840	73,128	74,417	75,705	76,993	78,282	79,570	80,858
Total Native System	**8,771,616**	**8,904,682**	**8,988,982**	**9,057,949**	**9,131,018**	**9,220,650**	**9,325,427**	**9,434,752**	**9,554,737**	**9,685,237**

Attachment B-2: 2021 Energy Forecast by Jurisdiction Page 1 of 2

Attachment B-2: 2021 Energy Forecast by Jurisdiciton

Native System Energy	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Texas										
Residential	3,334,983	3,425,148	3,525,170	3,636,026	3,759,624	3,895,878	4,046,054	4,217,339	4,414,403	4,648,544
Commercial & Industrial, Small	2,045,129	2,054,225	2,064,580	2,075,693	2,087,123	2,098,034	2,109,568	2,121,481	2,135,189	2,151,857
Commercial & Industrial, Large	991,948	992,095	992,060	991,868	991,538	991,089	990,535	989,891	989,167	988,375
Street Lighting	46,133	46,630	47,109	47,569	48,017	48,461	48,888	49,300	49,698	50,084
OPA	1,268,335	1,274,223	1,280,435	1,286,279	1,291,280	1,295,889	1,301,542	1,307,228	1,313,637	1,322,537
Total Texas	**7,686,529**	**7,792,320**	**7,909,355**	**8,037,435**	**8,177,583**	**8,329,351**	**8,496,587**	**8,685,239**	**8,902,094**	**9,161,398**
New Mexico										
Residential	969,922	988,500	1,009,110	1,033,415	1,061,030	1,091,843	1,127,392	1,169,692	1,219,920	1,282,489
Commercial & Industrial, Small	589,680	598,960	609,083	619,444	629,020	639,480	651,488	664,333	677,512	689,964
Commercial & Industrial, Large	70,144	69,687	69,229	68,772	68,315	67,857	67,400	66,943	66,485	66,028
Street Lighting	2,323	2,360	2,397	2,435	2,473	2,511	2,549	2,586	2,623	2,659
OPA	403,305	406,275	409,566	413,428	417,445	421,124	424,534	427,835	431,174	435,500
Total New Mexico	**2,035,375**	**2,065,782**	**2,099,386**	**2,137,494**	**2,178,283**	**2,222,815**	**2,273,362**	**2,331,388**	**2,397,713**	**2,476,639**
Company Use	15,110	15,246	15,383	15,522	15,662	15,803	15,945	16,088	16,233	16,379
RGEC	82,147	83,435	84,723	86,012	87,300	88,589	89,877	91,165	92,454	93,742
Total Native System	**9,819,161**	**9,956,784**	**10,108,847**	**10,276,463**	**10,458,828**	**10,656,557**	**10,875,771**	**11,123,881**	**11,408,494**	**11,748,158**

Attachment B-2: 2021 Energy Forecast by Jurisdiction Page 2 of 2

Attachment B-3: 2021 Demand Forecast by Jurisdiction

Native System Demand	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Texas										
Residential	653	667	681	689	703	717	735	751	773	795
Commercial & Industrial, Small	479	484	486	485	488	489	491	492	496	499
Commercial & Industrial, Large	236	237	238	238	240	241	241	241	242	243
Street Lighting	10	10	10	10	11	11	11	11	11	11
OPA	285	290	293	295	298	301	303	304	307	309
Total Texas	**1,662**	**1,688**	**1,708**	**1,718**	**1,740**	**1,759**	**1,782**	**1,799**	**1,830**	**1,858**
New Mexico										
Residential	201	205	207	208	211	214	217	220	224	229
Commercial & Industrial, Small	126	128	128	129	130	132	133	135	137	139
Commercial & Industrial, Large	18	18	18	17	17	17	17	17	17	17
Street Lighting	0	0	0	0	1	1	1	1	1	1
OPA	91	92	93	93	93	94	94	94	95	96
Total New Mexico	**436**	**443**	**446**	**448**	**452**	**457**	**462**	**466**	**475**	**482**
Company Use	3	3	3	3	3	4	4	4	4	4
RGEC	19	20	20	20	21	21	22	22	23	23
Total Native System	**2,121**	**2,155**	**2,177**	**2,190**	**2,216**	**2,240**	**2,269**	**2,292**	**2,331**	**2,367**

Attachment B-3: 2021 Demand Forecast by Jurisdiction Page 1 of 2

Attachment B-3: 2021 Demand Forecast by Jurisdiction

Native System Demand	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Texas										
Residential	819	841	871	901	936	973	1,020	1,072	1,134	1,206
Commercial & Industrial, Small	502	504	510	515	520	524	532	539	548	558
Commercial & Industrial, Large	244	244	245	246	247	247	250	252	254	256
Street Lighting	11	11	12	12	12	12	12	13	13	13
OPA	312	313	316	319	322	324	328	332	337	343
Total Texas	**1,888**	**1,913**	**1,954**	**1,992**	**2,036**	**2,079**	**2,142**	**2,208**	**2,286**	**2,376**
New Mexico										
Residential	233	237	243	250	257	265	276	288	303	321
Commercial & Industrial, Small	142	144	147	150	153	155	159	164	168	173
Commercial & Industrial, Large	17	17	17	17	17	16	16	16	17	17
Street Lighting	1	1	1	1	1	1	1	1	1	1
OPA	97	97	99	100	101	102	104	105	107	109
Total New Mexico	**489**	**496**	**506**	**517**	**528**	**540**	**556**	**574**	**595**	**620**
Company Use	4	4	4	4	4	4	4	4	4	4
RGEC	23	24	24	25	25	25	26	27	27	28
Total Native System	2,404	2,436	2,488	2,538	2,593	2,648	2,728	2,813	2,913	3,028

Attachment B-3: 2021 Demand Forecast by Jurisdiction
Page 2 of 2

Attachment B-4: Losses by Transmission and Distribution

Year	Secondary	Primary	Transmission	FERC	Losses (MW)
2021	130	4	4	0	138
2022	133	4	4	0	141
2023	135	4	4	0	144
2024	137	4	4	0	145
2025	139	4	4	0	148
2026	141	4	4	0	150
2027	144	4	5	0	153
2028	146	4	5	0	155
2029	149	4	5	0	159
2030	152	5	5	0	162
2031	155	5	5	0	165
2032	157	5	5	0	167
2033	160	5	5	0	171
2034	163	5	5	0	174
2035	166	5	5	0	177
2036	169	5	5	0	180
2037	173	5	5	0	184
2038	176	5	6	0	187
2039	179	5	6	0	191
2040	182	5	6	0	194

Typical Days Report

New Mexico Residential

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	0.74	0.70	0.68	0.69	0.69	0.71	0.74	0.71
2:00	0.67	0.64	0.63	0.64	0.64	0.65	0.68	0.65
3:00	0.63	0.60	0.60	0.60	0.60	0.61	0.63	0.61
4:00	0.59	0.59	0.57	0.59	0.59	0.59	0.60	0.59
5:00	0.59	0.60	0.59	0.60	0.61	0.61	0.60	0.60
6:00	0.60	0.63	0.63	0.64	0.63	0.64	0.61	0.63
7:00	0.65	0.70	0.71	0.71	0.71	0.72	0.68	0.70
8:00	0.74	0.76	0.77	0.78	0.78	0.78	0.78	0.77
9:00	0.84	0.82	0.83	0.83	0.83	0.84	0.89	0.84
10:00	0.96	0.91	0.90	0.90	0.90	0.92	0.99	0.93
11:00	1.10	1.00	0.99	0.97	0.99	1.03	1.11	1.03
12:00	1.22	1.06	1.07	1.05	1.07	1.12	1.22	1.11
13:00	1.30	1.15	1.13	1.12	1.14	1.19	1.30	1.19
14:00	1.37	1.22	1.20	1.19	1.23	1.26	1.37	1.26
15:00	1.44	1.29	1.29	1.27	1.28	1.33	1.43	1.33
16:00	1.48	1.35	1.35	1.32	1.35	1.38	1.46	1.39
17:00	1.47	1.40	1.40	1.38	1.42	1.43	1.47	1.43
18:00	1.43	1.41	1.41	1.37	1.42	1.40	1.44	1.41
19:00	1.38	1.37	1.37	1.34	1.37	1.35	1.36	1.36
20:00	1.34	1.32	1.32	1.30	1.31	1.29	1.28	1.31
21:00	1.24	1.22	1.24	1.23	1.22	1.20	1.20	1.22
22:00	1.09	1.07	1.08	1.07	1.09	1.08	1.09	1.08
23:00	0.93	0.90	0.91	0.91	0.94	0.94	0.96	0.93
24:00	0.80	0.78	0.78	0.78	0.82	0.83	0.85	0.80
Average	1.03	0.98	0.98	0.97	0.99	1.00	1.03	0.99

Typical Days Report

New Mexico Small General Service

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	1.52	1.48	1.50	1.52	1.53	1.53	1.54	1.52
2:00	1.48	1.45	1.47	1.49	1.50	1.50	1.51	1.49
3:00	1.47	1.44	1.46	1.47	1.47	1.48	1.49	1.47
4:00	1.47	1.46	1.47	1.48	1.48	1.49	1.49	1.48
5:00	1.47	1.49	1.50	1.51	1.52	1.52	1.50	1.50
6:00	1.45	1.55	1.56	1.57	1.57	1.59	1.51	1.54
7:00	1.43	1.68	1.71	1.72	1.72	1.73	1.52	1.64
8:00	1.41	1.95	2.01	2.01	2.00	2.00	1.58	1.85
9:00	1.53	2.25	2.36	2.35	2.34	2.31	1.77	2.13
10:00	1.68	2.47	2.60	2.60	2.58	2.55	1.95	2.35
11:00	1.81	2.58	2.70	2.70	2.70	2.65	2.05	2.46
12:00	1.91	2.61	2.73	2.76	2.76	2.71	2.12	2.51
13:00	1.94	2.66	2.77	2.82	2.81	2.76	2.14	2.56
14:00	1.93	2.73	2.88	2.88	2.89	2.83	2.15	2.61
15:00	1.89	2.74	2.88	2.88	2.89	2.80	2.14	2.60
16:00	1.87	2.59	2.72	2.73	2.75	2.65	2.12	2.49
17:00	1.85	2.27	2.36	2.39	2.44	2.35	2.05	2.25
18:00	1.85	2.06	2.15	2.15	2.25	2.17	2.01	2.09
19:00	1.86	1.99	2.04	2.08	2.18	2.09	1.98	2.03
20:00	1.84	1.91	1.96	2.02	2.07	2.03	1.95	1.97
21:00	1.78	1.81	1.85	1.90	1.91	1.92	1.87	1.86
22:00	1.69	1.72	1.74	1.77	1.77	1.82	1.78	1.76
23:00	1.58	1.63	1.63	1.66	1.65	1.70	1.67	1.65
24:00	1.51	1.55	1.56	1.58	1.58	1.61	1.58	1.57
Average	1.68	2.00	2.07	2.08	2.10	2.07	1.81	1.97

Typical Days Report

New Mexico General Service

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	41.04	40.17	45.49	46.00	46.05	45.97	44.28	44.16
2:00	40.21	39.69	43.91	44.31	44.54	44.50	42.85	42.87
3:00	39.48	39.55	42.84	43.22	43.45	43.33	41.70	41.95
4:00	39.23	41.17	43.46	43.94	43.79	43.58	41.83	42.44
5:00	39.60	45.04	46.79	47.26	47.05	46.73	43.43	45.14
6:00	40.66	49.45	50.95	51.25	51.05	50.23	45.45	48.45
7:00	42.05	54.06	56.08	56.21	55.84	54.82	47.19	52.34
8:00	43.83	59.38	61.15	61.03	60.74	59.34	49.33	56.42
9:00	46.18	63.31	64.80	64.73	64.34	63.08	52.09	59.82
10:00	48.16	66.09	67.63	67.69	67.25	65.85	54.39	62.46
11:00	49.80	67.80	69.18	68.91	68.78	67.40	56.01	64.01
12:00	51.31	68.90	69.99	69.44	69.50	68.09	57.01	64.92
13:00	52.51	69.88	71.03	70.44	70.46	69.15	57.65	65.90
14:00	53.33	70.50	71.91	70.98	70.91	69.80	58.36	66.56
15:00	53.67	69.48	70.84	70.00	69.90	68.85	58.57	65.92
16:00	53.42	67.69	68.97	68.22	68.39	67.14	58.02	64.57
17:00	52.14	64.43	65.49	65.09	65.39	63.91	56.60	61.88
18:00	51.22	61.34	62.64	62.35	62.68	60.88	55.34	59.51
19:00	50.43	59.91	61.33	61.12	60.85	59.33	54.46	58.22
20:00	49.39	58.66	60.19	59.84	59.49	58.35	53.41	57.06
21:00	47.23	55.77	57.17	56.79	56.58	55.25	50.32	54.17
22:00	45.01	53.22	54.12	53.86	53.73	52.28	47.32	51.38
23:00	42.54	49.96	50.61	50.47	50.33	49.44	44.65	48.30
24:00	41.02	47.42	48.22	47.99	47.85	46.46	42.41	45.92
Average	46.39	56.79	58.53	58.38	58.29	57.23	50.53	55.18

Typical Days Report

New Mexico City and County

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	7.11	7.13	7.16	7.28	7.27	7.27	7.18	7.20
2:00	7.07	7.11	7.12	7.25	7.25	7.25	7.15	7.17
3:00	7.03	7.10	7.12	7.21	7.22	7.19	7.12	7.14
4:00	7.06	7.43	7.43	7.49	7.47	7.47	7.15	7.36
5:00	7.23	9.12	8.87	8.84	8.82	8.79	7.34	8.43
6:00	7.22	10.55	10.27	10.10	10.09	9.83	7.40	9.36
7:00	6.95	11.61	11.40	11.10	11.14	10.84	7.20	10.04
8:00	6.77	12.24	12.19	11.69	11.92	11.52	6.99	10.48
9:00	6.82	12.88	12.87	12.29	12.64	12.13	7.05	10.96
10:00	6.89	13.15	13.18	12.70	12.99	12.43	7.12	11.22
11:00	6.95	13.30	13.44	13.04	13.26	12.71	7.17	11.42
12:00	7.00	13.46	13.65	13.20	13.49	12.86	7.25	11.57
13:00	7.16	13.60	13.79	13.40	13.64	12.97	7.39	11.72
14:00	7.30	13.54	13.78	13.29	13.53	12.91	7.51	11.70
15:00	7.33	12.77	12.99	12.48	12.75	12.08	7.50	11.14
16:00	7.40	10.97	11.21	10.87	11.03	10.58	7.58	9.96
17:00	7.48	9.90	10.06	9.97	10.02	9.71	7.65	9.26
18:00	7.57	9.25	9.40	9.39	9.41	9.10	7.64	8.83
19:00	7.74	8.74	8.89	8.95	8.97	8.70	7.77	8.54
20:00	7.86	8.36	8.56	8.59	8.58	8.39	7.89	8.32
21:00	7.82	8.15	8.33	8.35	8.34	8.18	7.82	8.14
22:00	7.45	7.65	7.76	7.81	7.80	7.65	7.45	7.65
23:00	7.21	7.28	7.37	7.40	7.39	7.31	7.19	7.31
24:00	7.14	7.17	7.28	7.29	7.29	7.21	7.13	7.21
Average	7.23	10.10	10.17	10.00	10.10	9.79	7.36	9.26

Typical Days Report

New Mexico Large Power

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	18,174.14	17,679.87	19,139.05	19,198.51	19,061.19	19,152.69	18,721.54	18,735.74
2:00	18,107.66	17,656.49	19,058.19	19,050.99	18,953.93	19,122.52	18,654.25	18,659.60
3:00	18,103.46	17,710.23	19,014.07	19,050.74	18,927.05	19,002.28	18,593.29	18,630.70
4:00	18,049.97	17,919.02	19,210.67	19,266.70	19,072.37	19,132.03	18,630.18	18,756.69
5:00	18,078.75	18,291.89	19,464.28	19,595.23	19,312.50	19,283.71	18,677.03	18,960.34
6:00	17,811.16	18,327.42	19,378.31	19,572.53	19,289.22	19,195.86	18,410.57	18,858.16
7:00	17,248.57	18,305.14	19,339.75	19,405.48	19,115.46	18,854.66	17,944.84	18,605.58
8:00	16,493.88	18,125.57	19,056.76	19,052.06	18,907.19	18,377.68	17,204.56	18,178.36
9:00	16,083.69	17,994.93	18,860.04	18,915.15	18,906.14	18,280.10	16,936.95	18,001.71
10:00	15,889.90	18,152.75	18,939.24	18,928.52	18,895.31	18,226.60	16,975.05	18,006.03
11:00	15,906.17	18,335.61	19,033.99	18,959.46	18,926.90	18,265.00	17,082.53	18,077.56
12:00	16,169.00	18,440.46	19,021.08	19,042.42	18,992.84	18,245.11	16,992.13	18,133.86
13:00	16,391.79	18,693.63	19,266.64	19,056.29	19,072.73	18,360.85	17,114.50	18,283.78
14:00	16,608.45	18,970.86	19,393.13	19,097.04	19,175.87	18,456.23	17,254.48	18,426.20
15:00	16,844.94	19,014.43	19,544.68	19,220.73	19,197.99	18,581.01	17,519.44	18,564.01
16:00	17,155.20	19,066.58	19,413.78	19,202.37	19,145.29	18,777.03	17,918.41	18,671.14
17:00	17,675.47	19,299.88	19,698.42	19,401.59	19,447.36	19,205.24	18,375.83	19,017.07
18:00	18,218.71	19,701.66	19,971.34	19,702.19	19,849.59	19,665.41	18,903.02	19,432.16
19:00	18,373.58	19,988.48	20,207.90	19,958.56	20,103.69	19,753.42	19,151.95	19,650.32
20:00	18,409.37	20,063.12	20,237.79	20,024.89	20,045.68	19,768.85	19,153.53	19,673.88
21:00	18,247.31	19,843.47	19,993.30	19,757.52	19,848.10	19,600.87	18,957.75	19,465.90
22:00	18,008.02	19,607.18	19,756.22	19,502.87	19,533.17	19,266.67	18,638.68	19,189.35
23:00	17,751.86	19,398.40	19,439.94	19,227.68	19,252.63	18,908.83	18,397.28	18,912.74
24:00	17,665.52	19,230.99	19,365.15	19,086.26	19,214.52	18,808.62	18,289.69	18,810.55
Average	17,394.44	18,742.42	19,408.49	19,303.16	19,260.28	18,928.98	18,104.06	18,737.56

Typical Days Report

Texas Residential

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	0.66	0.63	0.62	0.62	0.63	0.65	0.66	0.64
2:00	0.61	0.59	0.57	0.57	0.58	0.60	0.61	0.59
3:00	0.57	0.56	0.54	0.55	0.56	0.56	0.58	0.56
4:00	0.54	0.55	0.53	0.54	0.54	0.55	0.56	0.54
5:00	0.53	0.54	0.53	0.53	0.54	0.54	0.55	0.54
6:00	0.53	0.56	0.56	0.57	0.57	0.57	0.54	0.56
7:00	0.56	0.62	0.61	0.62	0.63	0.63	0.60	0.61
8:00	0.64	0.66	0.67	0.68	0.67	0.68	0.69	0.67
9:00	0.76	0.74	0.75	0.76	0.76	0.77	0.80	0.76
10:00	0.90	0.84	0.83	0.84	0.85	0.84	0.91	0.86
11:00	1.02	0.96	0.93	0.94	0.96	0.95	1.03	0.97
12:00	1.13	1.07	1.03	1.04	1.06	1.05	1.13	1.07
13:00	1.22	1.15	1.11	1.12	1.15	1.13	1.23	1.16
14:00	1.29	1.22	1.19	1.18	1.21	1.21	1.29	1.23
15:00	1.36	1.30	1.27	1.26	1.28	1.29	1.36	1.30
16:00	1.39	1.34	1.32	1.31	1.34	1.33	1.39	1.35
17:00	1.37	1.34	1.35	1.34	1.36	1.33	1.37	1.35
18:00	1.33	1.31	1.32	1.31	1.33	1.31	1.31	1.32
19:00	1.27	1.26	1.27	1.25	1.27	1.24	1.24	1.26
20:00	1.21	1.20	1.21	1.20	1.22	1.18	1.18	1.20
21:00	1.14	1.10	1.12	1.11	1.14	1.09	1.09	1.11
22:00	1.00	0.96	0.97	0.96	1.00	0.97	0.98	0.98
23:00	0.85	0.82	0.82	0.82	0.86	0.85	0.86	0.84
24:00	0.71	0.70	0.70	0.70	0.73	0.74	0.75	0.72
Average	0.94	0.92	0.91	0.91	0.93	0.92	0.95	0.92

Typical Days Report

Texas Small General Service

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	0.89	0.89	0.91	0.89	0.91	0.89	0.90	0.90
2:00	0.83	0.81	0.83	0.82	0.83	0.83	0.84	0.83
3:00	0.79	0.79	0.81	0.78	0.81	0.80	0.79	0.80
4:00	0.74	0.75	0.77	0.74	0.77	0.75	0.75	0.75
5:00	0.73	0.74	0.75	0.75	0.75	0.75	0.74	0.75
6:00	0.70	0.76	0.76	0.75	0.77	0.75	0.73	0.74
7:00	0.64	0.80	0.80	0.79	0.79	0.79	0.70	0.76
8:00	0.63	0.90	0.90	0.88	0.88	0.90	0.74	0.83
9:00	0.68	1.08	1.10	1.07	1.08	1.09	0.85	0.99
10:00	0.75	1.24	1.26	1.24	1.26	1.28	0.98	1.15
11:00	0.80	1.32	1.36	1.34	1.37	1.39	1.08	1.24
12:00	0.84	1.36	1.42	1.39	1.42	1.43	1.11	1.28
13:00	0.85	1.40	1.46	1.42	1.45	1.46	1.12	1.31
14:00	0.86	1.43	1.48	1.46	1.47	1.48	1.13	1.33
15:00	0.88	1.42	1.48	1.44	1.47	1.45	1.10	1.32
16:00	0.89	1.40	1.45	1.41	1.43	1.41	1.08	1.29
17:00	0.90	1.29	1.33	1.31	1.34	1.29	1.05	1.22
18:00	0.97	1.21	1.24	1.25	1.27	1.23	1.07	1.18
19:00	1.02	1.16	1.18	1.20	1.21	1.18	1.09	1.15
20:00	1.05	1.14	1.14	1.16	1.16	1.15	1.09	1.13
21:00	1.03	1.09	1.09	1.10	1.10	1.10	1.06	1.08
22:00	1.00	1.04	1.03	1.04	1.04	1.05	1.02	1.03
23:00	0.95	0.99	0.98	0.99	0.99	0.99	0.98	0.98
24:00	0.93	0.96	0.93	0.96	0.94	0.94	0.93	0.94
Average	0.85	1.08	1.10	1.09	1.10	1.10	0.95	1.04

Typical Days Report

Texas General Service

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	15.57	15.15	15.65	15.65	15.87	15.92	16.04	15.69
2:00	14.73	14.69	15.02	14.97	15.12	15.25	15.24	15.00
3:00	14.24	14.65	14.83	14.77	14.87	15.01	14.79	14.74
4:00	14.02	15.12	15.29	15.25	15.29	15.49	14.79	15.04
5:00	14.17	16.70	16.75	16.74	16.75	16.71	15.53	16.20
6:00	14.26	18.27	18.81	18.69	18.75	18.59	16.70	17.73
7:00	14.60	20.50	21.19	20.96	21.03	20.74	17.45	19.50
8:00	15.56	22.89	23.46	23.22	23.38	23.05	18.51	21.45
9:00	17.19	25.24	25.80	25.61	25.85	25.42	20.16	23.62
10:00	18.80	27.09	27.67	27.48	27.78	27.35	21.79	25.43
11:00	20.26	28.49	29.03	28.81	29.04	28.63	22.92	26.75
12:00	21.08	29.16	29.70	29.59	29.72	29.30	23.52	27.45
13:00	21.54	29.61	30.04	29.91	30.01	29.54	23.71	27.78
14:00	21.91	29.97	30.27	30.22	30.37	29.71	23.94	28.07
15:00	22.20	29.86	30.17	30.14	30.24	29.58	24.03	28.04
16:00	22.32	28.73	29.13	29.15	29.14	28.53	23.92	27.29
17:00	22.11	26.79	27.08	27.12	27.10	26.70	23.67	25.80
18:00	22.08	25.38	25.76	25.79	25.76	25.52	23.63	24.85
19:00	21.62	24.29	24.67	24.93	24.72	24.69	23.30	24.03
20:00	21.03	23.14	23.38	23.75	23.48	23.49	22.35	22.95
21:00	19.62	21.43	21.74	21.99	21.83	21.98	21.05	21.38
22:00	18.28	19.45	19.73	19.87	19.89	20.15	19.45	19.55
23:00	16.92	17.76	18.03	18.17	18.18	18.57	17.83	17.92
24:00	16.10	16.69	16.85	16.95	17.05	17.27	16.71	16.80
Average	18.34	22.54	22.92	22.91	22.97	22.79	20.04	21.79

Typical Days Report

Texas Large Power

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	66,562.31	66,221.73	73,182.50	73,454.62	73,028.48	72,650.26	71,397.00	70,945.43
2:00	66,005.17	65,875.46	72,812.63	72,845.67	72,502.26	72,573.89	70,858.73	70,508.16
3:00	65,678.02	65,827.35	72,487.50	72,441.24	72,313.14	72,148.92	70,300.01	70,182.94
4:00	65,617.65	67,100.05	73,537.13	73,244.27	73,315.59	73,150.46	70,288.26	70,906.39
5:00	65,701.13	70,065.45	76,067.79	75,473.65	75,871.79	75,407.50	71,019.32	72,816.64
6:00	66,025.13	73,835.95	79,685.81	78,481.64	78,818.74	78,116.05	71,692.64	75,255.22
7:00	66,100.67	77,487.95	82,412.56	80,736.50	81,153.65	79,952.68	71,536.53	77,075.62
8:00	66,830.34	81,263.28	84,963.52	83,216.72	83,563.36	82,398.20	72,583.49	79,282.41
9:00	68,191.32	84,309.26	87,443.85	85,428.78	85,947.33	84,831.37	74,396.60	81,529.78
10:00	69,785.76	86,509.29	89,319.54	87,103.74	87,704.87	86,485.13	75,960.33	83,289.56
11:00	71,232.55	88,372.13	90,300.00	88,427.41	88,849.89	87,713.13	77,289.21	84,619.84
12:00	72,311.21	88,506.47	89,842.34	88,009.39	88,701.68	87,398.61	77,531.62	84,634.92
13:00	73,126.05	89,340.10	90,497.69	88,882.59	89,422.19	88,178.71	77,853.37	85,349.57
14:00	73,611.25	89,810.81	91,231.86	89,559.00	89,500.06	88,815.54	77,829.47	85,785.99
15:00	73,845.75	89,516.16	90,826.21	89,155.63	88,915.17	88,416.22	77,712.20	85,503.31
16:00	73,595.32	88,719.66	89,924.57	88,258.04	87,777.28	86,866.50	77,319.21	84,655.70
17:00	72,927.22	86,890.26	87,941.14	86,411.94	86,037.58	85,023.86	76,604.54	83,136.47
18:00	71,836.87	85,413.20	86,357.17	85,158.09	84,670.09	83,887.29	75,988.07	81,918.00
19:00	70,562.26	83,132.10	84,211.12	83,038.47	82,446.67	81,753.79	74,601.71	79,978.92
20:00	69,518.88	81,218.45	82,305.91	81,487.61	80,607.32	80,068.85	73,179.29	78,355.69
21:00	68,315.07	79,448.22	80,399.20	79,642.16	78,855.25	78,165.61	71,604.24	76,647.11
22:00	67,519.25	77,336.63	78,191.68	77,575.03	76,811.01	75,746.45	70,102.36	74,767.95
23:00	66,747.24	75,278.41	76,119.44	75,395.46	74,980.67	73,770.35	68,461.65	72,976.90
24:00	66,061.83	73,785.64	74,656.75	73,897.59	73,501.07	72,185.28	67,236.33	71,629.16
Average	69,071.18	79,802.67	82,696.58	81,555.22	81,470.63	80,647.95	73,472.76	78,405.47

Typical Days Report

Texas City and County

For the year ending December 31, 2020

Time	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Average
1:00	17.38	18.76	18.05	18.17	18.12	18.02	17.46	17.99
2:00	17.28	19.96	18.76	18.77	18.67	18.48	17.42	18.48
3:00	17.24	21.29	19.55	19.61	19.51	19.27	17.39	19.13
4:00	17.33	23.32	21.95	21.96	21.94	21.64	17.53	20.82
5:00	17.29	26.41	25.44	25.21	25.26	24.92	17.66	23.18
6:00	16.96	30.21	29.64	29.30	29.40	28.74	17.56	25.99
7:00	16.43	33.58	33.45	32.77	33.13	32.02	17.62	28.45
8:00	16.22	36.44	36.75	35.72	36.34	34.89	17.80	30.62
9:00	16.49	38.47	38.89	37.77	38.64	37.00	18.16	32.24
10:00	16.87	39.53	39.98	39.06	39.79	38.05	18.42	33.14
11:00	16.95	40.33	40.81	40.12	40.63	38.92	18.51	33.79
12:00	17.23	40.65	41.26	40.61	41.07	39.30	18.56	34.14
13:00	17.43	40.81	41.56	40.83	41.23	39.39	18.62	34.30
14:00	17.54	40.28	41.10	40.26	40.82	38.80	18.54	33.94
15:00	17.39	38.83	39.72	38.82	39.43	37.64	18.28	32.91
16:00	17.61	34.35	35.28	34.58	35.07	33.32	18.12	29.79
17:00	17.77	27.87	28.73	28.17	28.51	27.33	17.98	25.21
18:00	18.04	23.62	24.45	24.09	24.28	23.45	18.15	22.31
19:00	18.54	22.28	23.02	22.70	22.75	22.21	18.57	21.45
20:00	18.86	21.42	21.95	21.72	21.79	21.52	18.78	20.87
21:00	18.61	20.40	20.78	20.65	20.74	20.49	18.53	20.03
22:00	18.40	19.39	19.74	19.56	19.57	19.29	18.13	19.16
23:00	18.24	18.58	18.91	18.73	18.70	18.29	17.81	18.47
24:00	18.36	18.08	18.33	18.25	18.10	17.63	17.55	18.04
Average	17.52	28.95	29.09	28.64	28.90	27.93	18.05	25.60

Attachment C-1: Transmission Facilities
TABLE 1. Existing EPE Transmission Lines 115 kV and Above

EL PASO ELECTRIC COMPANY								
Existing 115 kV and Above Internal Lines				**RATING**		**LENGTH**	**STATE**	
From	**To**	**kV**	**Circuit**	**MVA Normal**	**MVA Emerg**	**Miles**	**From**	**To**
AMRAD	EMPIRE	345	1	400	400	125.10	TX	NM
CALIENTE	AMRAD	345	1	785	785	56.7	TX	NM
CALIENTE	PICANTE	345	1	788	788	7.3	TX	TX
EMPIRE	EDDY	345	1	836	836	0.5	NM	NM
HIDALGO	GREENLEE	345	1	765	765	60.0	NM	AZ
LUNA	AFTON	345	1	921	987	57.3	NM	NM
LUNA	DIABLO	345	1	939	939	84.9	NM	NM
LUNA	HIDALGO	345	1	659	659	50.5	NM	NM
MACHO SPRINGS	LUNA	345	1	1031	1390	24.9	NM	NM
MACHO SPRINGS	SPRINGERVILLE	345	1	728	728	201.4	NM	AZ
NEWMAN	ARROYO	345	1	700	700	30.3	TX	NM
NEWMAN	AFTON	345	1	924	1028	29.9	TX	NM
PICANTE	NEWMAN	345	1	786	786	16.2	TX	TX
WESTMESA	ARROYO	345	1	680	680	201.8	NM	NM
MIMBRES TAP	AIRPORT	115	1	123	163	2.7	NM	NM
AMRAD	HOLLOMAN	115	1	121	121	22.5	NM	NM
ANTHONY	ARROYO	115	1	114	114	24.4	NM	NM
ANTHONY	BORDER STEEL	115	1	165	220	5.2	NM	TX
ANTHONY	SALOPEK	115	1	165	220	17.3	NM	NM
ANTHONY	NEWMAN	115	1	165	212	12.3	NM	TX
ANTHONY	NUWAY	115	1	165	220	6.6	NM	TX
ASCARATE	TROWBRIDGE	115	1	181	181	0.5	TX	TX
ASCARATE	COPPER	115	1	185	246	1.4	TX	TX
ASCARATE	JUAREZ	115	1	185	247	2.4	TX	
AUSTIN	MARLOW	115	1	227	227	1.2	TX	TX
BIGGS	BLISS INDUSTRIAL	115	1	185	246	2.2	TX	TX
BLISS INDUSTRIAL	LIBERTY	115	1	185	246	2.2	TX	TX
BUTTERFIELD	FT. BLISS	115	1	135	180	1.9	TX	TX
CALIENTE	DIAMOND HEAD	115	1	185	247	6.1	TX	TX
CALIENTE	MPS	115	1	69	87	8.5	TX	TX
CALIENTE	MPS	115	2	268	332	3.1	TX	TX
CALIENTE	MPS	115	3	268	332	3.1	TX	TX
CALIENTE	VISTA	115	1	166	221	6.6	TX	TX
CHAPARRAL	ORO GRANDE	115	1	135	165	35.4	NM	NM
COPPER	PENDALE	115	1	185	246	5.1	TX	TX

EL PASO ELECTRIC COMPANY								
Existing 115 kV and Above Internal Lines				**RATING**		**LENGTH**	**STATE**	
From	**To**	**kV**	**Circuit**	**MVA Normal**	**MVA Emerg**	**Miles**	**From**	**To**
COYOTE	RGC_DELL CITY	115	1	23	23	10.8	TX	TX
COYOTE	MONTWOOD	115	1	185	246	7.9	TX	NM
CROMO	RIO GRANDE	115	1	135	180	0.9	TX	TX
DIABLO	RIO GRANDE	115	1	332	441	2.9	NM	TX
DIABLO	RIO GRANDE	115	2	332	441	2.9	NM	NM
DIABLO	JUAREZ	115	1	185	247	2.3	NM	
DIAMOND HEAD	LANE	115	1	185	247	2.8	TX	TX
DURAZNO	ASCARATE	115	1	185	246	3.3	TX	NM
DYER	SHEARMAN	115	1	135	180	9.6	TX	TX
DYER	AUSTIN	115	1	185	246	2.1	TX	TX
EXECUTIVE	RIO GRANDE	115	1	271	359	2.9	TX	TX
FT. BLISS	AUSTIN	115	1	135	180	1.8	TX	TX
GLOBAL REACH	VISTA	115	1	329	329	3.0	TX	TX
HATCH	JORNADA	115	1	45	45	33.4	NM	NM
JORNADA	ARROYO	115	1	79	79	4.9	NM	NM
LANE	WRANGLER	115	1	165	220	1.0	TX	TX
LAS CRUCES	ARROYO	115	1	165	220	4.1	NM	NM
LAS CRUCES	SALOPEK	115	1	165	220	5.0	NM	NM
LEO EAST	DYER	115	1	185	246	3.8	TX	TX
LEO EAST	MILAGRO	115	1	185	246	4.4	TX	TX
LIBERTY	GLOBAL REACH	115	1	185	246	2.6	TX	TX
MAR	LARGO	115	1	29	29	11.4	NM	NM
MARLOW	TROWBRIDGE	115	1	181	181	1.1	TX	TX
MESA	AUSTIN	115	1	165	220	6.1	TX	TX
MESA	RIO GRANDE	115	1	268	268	2.3	TX	NM
MILAGRO	NEWMAN	115	1	185	246	6.3	TX	TX
MONTWOOD	CALIENTE	115	1	185	246	5.0	TX	TX
MPS	COYOTE	115	1	249	387	3.1	TX	TX
MPS	MONTWOOD	115	1	249	387	7.0	TX	TX
NEWMAN	CHAPARRAL	115	1	135	180	2.9	TX	NM
NEWMAN	BUTTERFIELD	115	1	135	280	16.7	TX	TX
NEWMAN	SHEARMAN	115	1	135	280	7.3	TX	TX
NEWMAN	PIPELINE	115	1	185	246	9.8	TX	TX
NEWMAN	PICANTE	115	1	185	246	13.6	TX	TX
NUWAY	MONTOYA	115	1	165	220	3.6	TX	TX
ORO GRANDE	AMRAD	115	1	135	165	12.3	NM	NM
ORO GRANDE	WHITE SANDS	115	1	75	75	22.8	NM	NM
PATRIOT	NEWMAN	115	1	135	180	1.5	TX	TX
PATRIOT	CROMO	115	1	135	180	18.4	TX	TX
PELICANO	HORIZON	115	1	185	246	6.7	TX	TX

EL PASO ELECTRIC COMPANY								
Existing 115 kV and Above Internal Lines				**RATING**		**LENGTH**	**STATE**	
From	**To**	**kV**	**Circuit**	**MVA Normal**	**MVA Emerg**	**Miles**	**From**	**To**
PELICANO	MONTWOOD	115	1	185	246	3.8	TX	TX
PENDALE	LANE	115	1	185	246	1.5	TX	TX
PICANTE	GLOBAL REACH	115	1	185	246	6.0	TX	TX
PICANTE	BIGGS	115	1	185	246	2.3	TX	TX
PIPELINE	BIGGS	115	1	135	180	13.6	TX	TX
RIO GRANDE	RIPLEY	115	1	165	220	3.0	NM	TX
RIPLEY	THORN	115	1	135	180	1.9	TX	TX
SALOPEK	ARROYO	115	1	135	180	10.7	NM	NM
SANTA TERESA	MONTOYA	115	1	185	246	7.4	NM	TX
SANTA TERESA	DIABLO	115	1	169	225	8.9	NM	NM
SCOTSDALE	VISTA	115	1	135	180	5.2	TX	TX
SOL	LANE	115	1	135	180	2.1	TX	TX
SOL	VISTA	115	1	185	246	2.0	TX	TX
SPARKS	HORIZON	115	1	185	246	3.8	TX	TX
SUNSET NORTH	DURAZNO	115	1	185	246	4.6	TX	TX
SUNSET NORTH	EXECUTIVE	115	1	271	359	2.3	TX	TX
THORN	MONTOYA	115	1	135	180	3.0	TX	TX
WRANGLER	SPARKS	115	1	185	246	4.0	TX	TX

- "Internal" refers to lines within EPE's Balancing Area including lines connecting EPE to neighboring utilities, however, not including line segments partially owned by EPE external to EPE's control area.
- Some transmission lines were identified to be capacity limited by smaller jumpers connected at the substations. The line ratings reflected in the above table are based on-line jumper upgrade assumptions.
- The ratings are generally based on conductor thermal capacities but may be derated due to sag limitations or other factors.
- RGC_DC is Rio Grande Electric Cooperative, Dell City.
- Emerg is short for Emergency

TABLE 2. Existing 115 kV EPE Substation Transformers

EL PASO ELECTRIC COMPANY				
Existing 115 kV Load & Step-up Substation Transformers		RATING		State
		Normal	Emergency	
		MVA	MVA	
AIRPORT	115/23.9	33.6	37.6	NM
AMRAD	115/24.9	8.5	9.5	NM
ANTHONY T1	115/23.9	33.6	37.6	NM
ANTHONY T2	115/23.9	56.0	62.7	NM
ARROYO T2	115/23.9	33.6	37.6	NM
ARROYO T4	115/23.9	33.6	37.6	NM
ASCARATE T4	115/69	112	128.8	TX
ASCARATE T5	115/69	112	128.8	TX
AUSTIN T1	115/13.8	50.0	56.0	TX
AUSTIN T2	115/13.8	56.0	62.7	TX
BORDER STEEL 115 T1	115/13.8	39.2	43.9	TX
BORDER STEEL 115 T2	115/13.8	39.2	43.9	TX
BUTTERFIELD T1	115/13.8	30.0	33.6	TX
BUTTERFIELD T2	115/13.8	30.0	33.6	TX
CALIENTE T3	115/13.8	33.6	37.6	TX
CENTRAL TEMP T1	115/13.8	33.6	37.6	TX
CHAPARRAL T1	115/13.8	33.6	37.6	NM
CHAPARRAL T2	115/13.8	33.6	37.6	NM
COPPER T1	115/13.8	30.0	33.6	TX
COPPER GEN T2	13.8/115	84.0	94.1	TX
COX T2	115/69	56.0	64.4	NM
COYOTE T1	115/13.8	30.0	33.6	TX
CROMO T1	115/13.8	30.0	33.6	TX
CROMO T2	115/13.8	33.6	37.6	TX
DIAMOND HEAD T1	115/13.8	33.6	37.6	TX
DURAZNO T1	115/13.8	33.6	37.6	TX
DYER T3	115/69	112	128.8	TX
EMRLD T1	115/13.8	12.5	14.0	NM
EXECUTIVE T1	115/13.8	56.0	62.7	TX
EXECUTIVE T2	115/13.8	56.0	62.7	TX
FT. BLISS T1	115/13.8	56.0	62.7	TX
FT. BLISS T2	115/13.2	28.0	31.4	TX
GLOBAL REACH T1	115/13.8	33.6	37.6	TX
GLOBAL REACH T2	115/13.8	56.0	62.7	TX

EL PASO ELECTRIC COMPANY				
Existing 115 kV Load & Step-up Substation Transformers		RATING		State
		Normal	Emergency	
		MVA	MVA	
HATCH T1	115/24.9	30.0	33.6	NM
HORIZON T1	115/13.8	33.6	37.6	TX
JORNADA T1	115/23.9	33.6	37.6	NM
JORNADA T2	115/23.9	56.0	62.7	NM
LANE T1	115/69	100	115	TX
LANE T2	115/13.8	30.0	33.6	TX
LAS CRUCES T1	115/23.9	67.2	75.3	NM
LAS CRUCES T2	115/23.9	67.2	75.3	NM
LEO EAST T1	115/13.8	33.6	37.6	TX
LEO EAST T2	115/13.8	33.6	37.6	TX
MAR T1	115/4.2	11.2	12.5	NM
MESA T1	115/13.8	30.0	33.6	TX
MESA T2	115/13.8	33.6	37.6	TX
MILAGRO T1	115/13.8	33.6	37.6	TX
MILAGRO T2	115/13.8	33.6	37.6	TX
MILAGRO T3	115/13.8	33.6	37.6	TX
MONTOYA T1	115/24.9	33.6	37.6	TX
MONTOYA T2	115/23.9	56.0	62.7	TX
MONTOYA T3	115/23.9	56.0	62.7	TX
MONTWOOD T1	115/23.9	56.0	62.7	TX
MONTWOOD T3	115/23.9	56.0	62.7	TX
MPS T1	13.8/115	140.0	156.8	TX
MPS T2	13.8/115	140.0	156.8	TX
MPS T3	13.8/115	140.0	156.8	TX
MPS T4	13.8/115	140.0	156.8	TX
NEWMAN G1(T2)	13.8/115	125.4	140.5	TX
NEWMAN G2 (T6)	13.8/115	125.4	140.5	TX
NEWMAN G3 (T8)	13.8/115	125.4	140.5	TX
NEWMAN 4G1 (T11)	13.8/115	125.0	140.0	TX
NEWMAN 4G2 (T9)	13.8/115	125.0	140.0	TX
NEWMAN 4S1 (T13)	13.8/115	125.0	140.0	TX
NEWMAN 5G1 (T15)	13.8/115	130.0	145.6	TX
NEWMAN 5G2 (T16)	13.8/115	130.0	145.6	TX
NEWMAN 5S1 (T14)	13.8/115	175.0	196	TX
NUWAY T1	115/23.9	56.0	62.7	TX
NUWAY T2	115/23.9	56.0	62.7	TX

EL PASO ELECTRIC COMPANY				
Existing 115 kV Load & Step-up Substation Transformers		RATING		State
		Normal	Emergency	
		MVA	MVA	
PATRIOT T1	115/13.8	33.6	37.6	TX
PELICANO T1	115/23.9	56.0	62.7	TX
PELICANO T2	115/23.9	56.0	62.7	TX
PENDALE T1	115/13.8	33.6	37.6	TX
PENDALE T2	115/13.8	56.0	62.7	TX
PICACHO T1	115/24.9	56.0	62.7	NM
REDEYE T1	115/13.8	14.0	15.7	NM
RIO GRANDE T1	115/69	112	128.8	NM
RIO GRANDE T2	115/69	112	128.8	NM
RIO GRANDE G8 (T7)	17.5/115	168.0	188.2	NM
RIO GRANDE G9 (T17)	13.8/115	132.0	147.8	NM
RIPLEY T1	115/13.8	33.6	37.6	TX
RIPLEY T2	115/13.8	56.0	62.7	TX
SALOPEK T1	115/24.9	28.0	31.4	NM
SALOPEK T2	115/24.9	28.0	31.4	NM
SALOPEK T3	115/24.9	28.0	31.4	NM
SANTA TERESA T1	115/23.9	33.6	37.6	NM
SANTA TERESA T2	115/23.9	33.6	37.6	NM
SCOTSDALE T1	115/69	112	128.8	TX
SCOTSDALE T4	115/13.8	56.0	62.7	TX
SCOTSDALE T5	115/13.8	56.0	62.7	TX
SHEARMAN T1	115/13.8	30.0	33.6	TX
SOL T1	115/13.8	33.6	37.6	TX
SOL T2	115/13.8	30.0	33.6	TX
SPARKS T1	115/13.8	33.6	37.6	TX
SPARKS T2	115/13.8	56.0	62.7	TX
SPARKS T3	115/69	100	115	TX
SUNSET NORTH T1	115/13.8	33.6	37.6	TX
SUNSET NORTH T2	115/13.8	33.6	37.6	TX
SUNSET NORTH T3	115/69	112	128.8	TX
TALAVERA TEMP T1	115/23.9	16.5	18.5	NM
THORN T1	115/13.8	33.6	37.6	TX
THORN T2	115/13.8	33.6	37.6	TX
TRIUMPH TEMP T1	115/23.9	33.6	37.6	TX
VISTA T1	115/13.8	30.0	33.6	TX
VISTA T2	115/13.8	30.0	33.6	TX

EL PASO ELECTRIC COMPANY				
Existing 115 kV Load & Step-up Substation Transformers		**RATING**		**State**
		Normal	**Emergency**	
		MVA	**MVA**	
WHITE SANDS T1	115/13.8	30.0	33.6	NM
WRANGLER T1	115/13.8	50.0	56.0	TX

Attachment C-2: Existing Units Operating Characteristics

Capacity Factor (%)

Resources	2021	2024	2025	2027	2031	2035	2040	2045
Newman 1	2%	0%	0%	0%	0%	0%	0%	0%
Newman 2	1%	0%	0%	0%	0%	0%	0%	0%
Newman 3	10%	3%	0%	1%	0%	0%	0%	0%
Newman 4	14%	5%	2%	3%	1%	0%	0%	0%
Newman 5	64%	54%	38%	41%	44%	40%	41%	47%
Newman 6	0%	12%	7%	8%	6%	3%	4%	6%
Copper	2%	0%	0%	0%	0%	0%	0%	0%
Montana 1	26%	29%	20%	21%	20%	11%	19%	23%
Montana 2	26%	28%	19%	21%	21%	14%	23%	24%
Montana 3	17%	17%	13%	14%	12%	5%	11%	16%
Montana 4	50%	42%	30%	32%	28%	23%	28%	28%
Rio Grande 7	0%	0%	0%	0%	0%	0%	0%	0%
Rio Grande 8	3%	1%	0%	0%	0%	0%	0%	0%
Rio Grande 9	13%	5%	2%	3%	3%	0%	0%	2%
Gas Peaker	0%	0%	0%	0%	0%	3%	3%	5%
Palo Verde 1	94%	94%	94%	94%	94%	94%	94%	94%
Palo Verde 2	94%	94%	94%	94%	94%	94%	94%	94%
Palo Verde 3	94%	94%	94%	94%	94%	94%	94%	94%

Fuel Cost ($000)

Resources	2021	2024	2025	2027	2031	2035	2040	2045
Newman 1	$ 431	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Newman 2	$ 273	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Newman 3	$ 2,299	$ 667	$ 55	$ 248	$ 46	$ -	$ -	$ -
Newman 4	$ 7,893	$ 2,755	$ 1,080	$ 1,435	$ 716	$ -	$ -	$ -
Newman 5	$ 31,126	$ 24,367	$ 17,006	$ 19,659	$ 22,951	$ 21,785	$ 24,625	$ 28,990
Newman 6	$ -	$ 5,465	$ 3,596	$ 4,364	$ 3,762	$ 1,579	$ 2,380	$ 4,155
Copper	$ 1,076	$ 70	$ -	$ -	$ -	$ -	$ -	$ -
Montana 1	$ 4,595	$ 4,852	$ 3,414	$ 3,784	$ 4,030	$ 2,455	$ 4,318	$ 5,534
Montana 2	$ 5,153	$ 5,102	$ 3,468	$ 4,056	$ 4,447	$ 3,079	$ 5,285	$ 5,678
Montana 3	$ 3,332	$ 3,087	$ 2,371	$ 2,768	$ 2,638	$ 1,279	$ 2,780	$ 4,139
Montana 4	$ 9,507	$ 7,298	$ 5,383	$ 5,946	$ 5,665	$ 4,884	$ 6,297	$ 6,488
Rio Grande 7	$ 93	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rio Grande 8	$ 1,340	$ 264	$ 49	$ 93	$ -	$ -	$ -	$ -
Rio Grande 9	$ 2,675	$ 987	$ 413	$ 603	$ 706	$ 42	$ 22	$ 429
Gas Peaker	$ -	$ -	$ -	$ -	$ -	$ 1,081	$ 2,239	$ 5,645
Palo Verde 1	$ 12,111	$ 12,185	$ 12,222	$ 12,259	$ 12,370	$ 12,500	$ 12,667	$ 12,834
Palo Verde 2	$ 12,169	$ 12,244	$ 12,281	$ 12,318	$ 12,430	$ 12,561	$ 12,728	$ 12,896
Palo Verde 3	$ 12,111	$ 12,185	$ 12,222	$ 12,259	$ 12,370	$ 12,500	$ 12,667	$ 12,834

Heat Rate (MMBtu/MWh)

Newman 1	12.28
Newman 2	11.51
Newman 3	10.97
Newman 4	10.12
Newman 5	7.741
Newman 6	10.101
Copper	19.916
Montana 1	9.373
Montana 2	9.334
Montana 3	9.933
Montana 4	9.339
Rio Grande 7	11.79
Rio Grande 8	11.902
Rio Grande 9	9.881
Gas Peaker	10.101
Palo Verde 1	10
Palo Verde 2	10
Palo Verde 3	10

Attachment C-2: Existing Units Operating Characteristics

Fixed O&M ($000)

Resources	2021	2024	2025	2027	2031	2035	2040	2045
Newman 1	$ 1,704	$ 5,737	$ 5,737	$ 5,737	$ -	$ -	$ -	$ -
Newman 2	$ 1,789	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Newman 3	$ 2,221	$ 2,221	$ 2,221	$ 5,231	$ 5,231	$ -	$ -	$ -
Newman 4	$ 5,014	$ 5,014	$ 5,014	$ 10,769	$ 10,769	$ -	$ -	$ -
Newman 5	$ 5,563	$ 5,563	$ 5,563	$ 5,563	$ 5,563	$ 5,563	$ 5,563	$ 5,563
Newman 6	$ -	$ 2,752	$ 2,752	$ 2,752	$ 2,752	$ 2,752	$ 2,752	$ 2,752
Copper	$ 1,167	$ 1,167	$ 1,167	$ 1,167	$ -	$ -	$ -	$ -
Montana 1	$ 1,613	$ 1,613	$ 1,613	$ 1,613	$ 1,613	$ 1,613	$ 1,613	$ 1,613
Montana 2	$ 1,623	$ 1,623	$ 1,623	$ 1,623	$ 1,623	$ 1,623	$ 1,623	$ 1,623
Montana 3	$ 1,484	$ 1,484	$ 1,484	$ 1,484	$ 1,484	$ 1,484	$ 1,484	$ 1,484
Montana 4	$ 1,076	$ 1,076	$ 1,076	$ 1,076	$ 1,076	$ 1,076	$ 1,076	$ 1,076
Rio Grande 7	$ 1,612	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rio Grande 8	$ 4,346	$ 4,346	$ 4,346	$ 4,346	$ 4,346	$ -	$ -	$ -
Rio Grande 9	$ 2,495	$ 2,495	$ 2,495	$ 2,495	$ 2,495	$ 2,495	$ 2,495	$ 2,495
Gas Peaker	$ -	$ -	$ -	$ -	$ -	$ 1,697	$ 3,312	$ 4,621
Palo Verde 1	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313
Palo Verde 2	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313
Palo Verde 3	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313	$ 28,313

Variable O&M ($000)

Resources	2021	2024	2025	2027	2031	2035	2040	2045
Newman 1	$ 466	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Newman 2	$ 415	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Newman 3	$ 2,388	$ 695	$ 57	$ 257	$ 48	$ -	$ -	$ -
Newman 4	$ 8,305	$ 2,887	$ 1,130	$ 1,497	$ 744	$ -	$ -	$ -
Newman 5	$ 33,855	$ 26,821	$ 18,189	$ 21,158	$ 24,347	$ 22,746	$ 25,862	$ 30,331
Newman 6	$ -	$ 5,964	$ 3,916	$ 4,688	$ 3,914	$ 1,639	$ 2,464	$ 4,299
Copper	$ 1,581	$ 282	$ -	$ -	$ -	$ -	$ -	$ -
Montana 1	$ 5,119	$ 5,348	$ 3,764	$ 4,110	$ 4,219	$ 2,540	$ 4,463	$ 5,714
Montana 2	$ 5,832	$ 5,707	$ 3,805	$ 4,427	$ 4,663	$ 3,195	$ 5,491	$ 5,881
Montana 3	$ 3,700	$ 3,494	$ 2,602	$ 3,032	$ 2,777	$ 1,335	$ 2,895	$ 4,307
Montana 4	$ 10,379	$ 8,028	$ 6,003	$ 6,579	$ 6,106	$ 5,134	$ 6,673	$ 6,808
Rio Grande 7	$ 161	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Rio Grande 8	$ 1,700	$ 269	$ 50	$ 94	$ -	$ -	$ -	$ -
Rio Grande 9	$ 3,001	$ 1,138	$ 487	$ 689	$ 741	$ 44	$ 23	$ 447
Gas Peaker	$ -	$ -	$ -	$ -	$ -	$ 1,122	$ 2,319	$ 5,841
Palo Verde 1	$ 15,537	$ 15,612	$ 15,649	$ 15,686	$ 15,797	$ 15,927	$ 16,094	$ 16,261
Palo Verde 2	$ 15,613	$ 15,687	$ 15,724	$ 15,762	$ 15,873	$ 16,004	$ 16,172	$ 16,339
Palo Verde 3	$ 15,537	$ 15,612	$ 15,649	$ 15,686	$ 15,797	$ 15,927	$ 16,094	$ 16,261

Market Price

Year	Average Annual Price ($/MWh)
2021	$ 20.24
2022	$ 20.43
2023	$ 20.50
2024	$ 20.08
2025	$ 20.20
2026	$ 20.07
2027	$ 19.81
2028	$ 19.98
2029	$ 19.19
2030	$ 18.63
2031	$ 19.27
2032	$ 20.20
2033	$ 20.09
2034	$ 20.21
2035	$ 20.16
2036	$ 20.31
2037	$ 19.98
2038	$ 19.27
2039	$ 18.95
2040	$ 18.36
2041	$ 18.43
2042	$ 18.32
2043	$ 18.25
2044	$ 18.95
2045	$ 20.25

Attachment D-1: E3 EPE Report Model Results June

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,022	1,111	1,130	1,065	1,318	1,502
	Gas - Combustion Turbine	1,027	1,169	836	880	773	754	1,250	1,640
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	379	382	375	336	409	720
	Solar	289	952	1,467	1,551	2,200	3,058	3,443	4,239
	Battery Storage	-	12	(26)	(48)	(129)	(217)	(220)	(250)
	Imports	391	336	260	259	282	273	358	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	430	342	496	657	373	475
Least-Cost Case + ETA Resources	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	3	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	898	963	998	899	1,053	1,145
	Gas - Combustion Turbine	1,027	1,169	720	761	686	461	790	1,043
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	670	688	675	555	653	815
	Solar	289	953	1,464	1,530	2,211	3,351	4,068	5,345
	Battery Storage	-	12	(31)	(45)	(122)	(241)	(281)	(370)
	Imports	391	336	220	239	184	245	275	314
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	564	480	558	1,272	1,040	940
Separate System Planning	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	1	2	-	-	-	-
	Gas - Combined Cycle	1,766	1,388	1,031	1,122	1,141	969	1,192	1,385
	Gas - Combustion Turbine	1,040	1,177	754	831	807	477	795	1,105
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	305	306	295	182	165	412
	Solar	289	949	1,648	1,690	2,236	3,708	4,532	5,512
	Battery Storage	-	12	(54)	(60)	(138)	(295)	(350)	(405)
	Imports	391	327	259	247	291	229	225	282
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	134	450	407	444	1,288	2,358	2,353

Attachment D-1: E3 EPE Report Model Results June

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	1	2	-	-	-	-
	Gas - Combined Cycle	1,766	1,388	979	1,049	1,090	1,035	1,153	1,384
	Gas - Combustion Turbine	1,040	1,177	728	819	735	688	779	1,129
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	447	451	433	405	510	657
	Solar	289	949	1,594	1,633	2,242	3,101	4,087	5,075
	Battery Storage	-	12	(56)	(60)	(136)	(218)	(297)	(352)
	Imports	391	327	251	245	266	260	261	327
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	65	71
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	133	444	402	574	772	872	919
Low Load Growth	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	101	27	2	3	-	-	-	-
	Gas - Combined Cycle	1,596	1,244	978	1,065	1,127	1,025	1,258	1,472
	Gas - Combustion Turbine	983	1,065	799	875	806	644	1,109	1,492
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	333	336	335	291	350	562
	Solar	282	919	1,293	1,309	1,805	2,833	3,220	3,993
	Battery Storage	-	8	(29)	(29)	(96)	(209)	(215)	(245)
	Imports	381	325	269	262	289	268	342	437
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,492	8,862	8,958	9,194	9,759	10,459	11,813	13,623
	Excess Generation	22	163	337	318	410	642	359	427
High Load Growth	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	195	50	5	3	-	-	-	-
	Gas - Combined Cycle	1,909	1,522	1,067	1,151	1,118	1,107	1,388	1,500
	Gas - Combustion Turbine	1,088	1,256	865	914	776	867	1,411	1,747
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	431	436	413	396	463	976
	Solar	293	983	1,651	1,751	2,569	3,257	3,642	4,464
	Battery Storage	-	14	(47)	(68)	(159)	(222)	(222)	(256)
	Imports	400	343	272	271	280	284	372	441
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	9,050	9,447	9,558	9,830	10,488	11,297	12,803	14,783
	Excess Generation	10	100	394	290	554	655	385	540

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Annual Energy (GWh) 2021	2024	2025	2027	2031	2035	2040	2045
High DG	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	134	31	7	3	-	-	-	-
	Gas - Combined Cycle	1,728	1,317	1,001	1,081	1,111	1,060	1,266	1,473
	Gas - Combustion Turbine	1,028	1,123	814	825	742	696	1,097	1,614
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	367	372	368	326	391	916
	Solar	285	866	1,263	1,278	1,665	2,340	2,627	2,711
	Battery Storage	-	11	(25)	(45)	(126)	(227)	(245)	(244)
	Imports	389	314	247	241	269	260	345	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	88	350	436	608	945	1,276	1,680	2,144
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	18	217	513	492	614	714	600	432
High DSM	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	133	30	2	3	0	-	-	-
	Gas - Combined Cycle	1,744	1,303	1,041	1,126	1,198	1,029	1,234	1,463
	Gas - Combustion Turbine	1,020	1,111	869	907	900	610	1,026	1,407
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	244	244	251	207	249	470
	Solar	288	934	1,332	1,337	1,621	2,752	3,114	3,719
	Battery Storage	-	10	(28)	(29)	(86)	(205)	(213)	(233)
	Imports	390	329	283	268	304	271	342	439
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,731	8,994	9,056	9,230	9,680	10,273	11,501	13,177
	Excess Generation	15	148	318	313	263	643	371	372
No New Gas	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	6	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	984	1,072	1,095	716	702	637
	Gas - Combustion Turbine	1,027	1,169	811	849	745	180	216	207
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	455	462	452	210	208	210
	Solar	289	952	1,467	1,545	2,197	4,287	5,691	7,680
	Battery Storage	-	12	(27)	(47)	(127)	(348)	(472)	(649)
	Imports	391	336	251	255	270	225	213	206
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	458	372	536	2,237	2,586	3,219

Attachment D-1: E3 EPE Report Model Results June

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
No Lifetime Extensions	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	2	0	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	948	1,015	1,050	1,056	1,308	1,502
	Gas - Combustion Turbine	1,027	1,169	707	680	634	745	1,242	1,640
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	397	400	370	364	442	722
	Solar	289	953	1,693	1,897	2,475	3,050	3,432	4,237
	Battery Storage	-	12	(38)	(94)	(164)	(216)	(219)	(250)
	Imports	391	336	235	241	267	271	354	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	129	634	428	592	661	374	475
High Gas Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	125	31	3	3	-	-	-	-
	Gas - Combined Cycle	1,787	1,400	983	1,060	1,062	999	1,234	1,347
	Gas - Combustion Turbine	1,008	1,120	764	786	698	607	1,121	1,361
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	486	493	483	422	516	926
	Solar	290	956	1,465	1,542	2,190	3,165	3,570	4,490
	Battery Storage	-	9	(31)	(46)	(126)	(226)	(232)	(274)
	Imports	403	360	274	301	325	303	350	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	13	127	470	386	546	811	486	705
Low Carbon Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	127	23	3	3	-	-	-	-
	Gas - Combined Cycle	1,803	1,433	955	1,021	1,036	971	1,189	1,333
	Gas - Combustion Turbine	1,001	1,107	711	750	678	571	1,063	1,333
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	609	624	604	523	642	936
	Solar	289	958	1,476	1,548	2,179	3,178	3,576	4,573
	Battery Storage	-	11	(32)	(45)	(124)	(229)	(234)	(279)
	Imports	394	345	223	238	258	256	322	395
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	125	512	426	579	876	532	725

Attachment D-1: E3 EPE Report Model Results June

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Medium Carbon Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	120	22	3	3	-	-	-	-
	Gas - Combined Cycle	1,822	1,496	876	941	974	922	1,115	1,270
	Gas - Combustion Turbine	983	1,036	548	590	606	475	950	1,199
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	754	779	766	646	805	1,098
	Solar	290	961	1,600	1,663	2,221	3,268	3,695	4,746
	Battery Storage	-	7	(37)	(47)	(122)	(230)	(242)	(293)
	Imports	399	354	200	210	187	190	235	271
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	13	121	763	676	588	911	560	726
High Carbon Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	119	21	2	3	0	-	-	-
	Gas - Combined Cycle	1,835	1,540	658	724	862	872	979	832
	Gas - Combustion Turbine	962	989	428	458	488	393	630	544
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	869	904	927	776	940	832
	Solar	290	963	1,847	1,900	2,307	3,272	4,088	6,364
	Battery Storage	-	2	(40)	(46)	(115)	(230)	(271)	(474)
	Imports	408	362	181	195	162	187	193	192
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	13	120	1,270	1,182	882	1,065	1,041	1,596
80% Clean by 2035	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,022	1,111	1,127	1,050	1,159	1,295
	Gas - Combustion Turbine	1,027	1,169	836	880	766	696	1,057	1,256
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	379	382	375	331	683	1,029
	Solar	289	952	1,466	1,551	2,212	3,155	3,653	4,715
	Battery Storage	-	12	(26)	(48)	(129)	(224)	(234)	(290)
	Imports	391	336	261	260	278	264	240	286
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	431	343	514	770	469	738

Attachment D-1: E3 EPE Report Model Results June

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
20% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,022	1,111	1,130	1,065	1,318	1,342
	Gas - Combustion Turbine	1,027	1,169	836	880	773	751	1,249	1,353
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	379	382	375	336	409	927
	Solar	289	952	1,466	1,549	2,204	3,061	3,445	4,548
	Battery Storage	-	12	(26)	(48)	(129)	(217)	(220)	(277)
	Imports	391	336	261	262	277	274	357	397
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	431	345	491	655	371	705
40% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,022	1,111	1,127	1,051	1,133	1,135
	Gas - Combustion Turbine	1,027	1,169	836	880	766	696	980	985
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	379	382	375	331	763	1,034
	Solar	289	953	1,466	1,549	2,211	3,151	3,692	5,268
	Battery Storage	-	12	(26)	(48)	(128)	(224)	(241)	(350)
	Imports	391	336	261	262	279	265	232	219
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	129	432	345	515	768	533	965
60% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,022	1,111	1,127	1,052	864	852
	Gas - Combustion Turbine	1,027	1,169	836	880	766	698	561	560
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	379	382	375	331	927	838
	Solar	289	953	1,466	1,552	2,213	3,150	4,319	6,337
	Battery Storage	-	12	(26)	(48)	(128)	(224)	(276)	(470)
	Imports	391	336	261	259	278	263	164	174
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	432	342	513	769	1,338	1,586

Attachment D-1: E3 EPE Report Model Results June

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
80% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	3	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	910	976	1,017	907	577	550
	Gas - Combustion Turbine	1,027	1,169	734	777	696	468	168	183
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	638	654	638	532	1,260	1,231
	Solar	289	952	1,463	1,531	2,158	3,371	4,812	6,758
	Battery Storage	-	12	(30)	(45)	(123)	(239)	(338)	(517)
	Imports	391	336	227	241	245	232	80	88
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	546	461	605	1,183	2,430	2,751
90% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	3	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	910	978	1,018	808	340	313
	Gas - Combustion Turbine	1,027	1,169	736	776	696	320	41	58
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	637	655	639	463	1,965	1,995
	Solar	289	952	1,462	1,527	2,156	3,764	4,483	6,350
	Battery Storage	-	12	(30)	(45)	(123)	(278)	(311)	(472)
	Imports	391	336	226	244	245	193	40	47
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	547	465	603	1,440	3,210	3,645
100% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	6	3	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	984	1,072	1,095	716	-	-
	Gas - Combustion Turbine	1,027	1,169	811	849	745	180	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	455	462	452	210	969	1,406
	Solar	289	952	1,467	1,545	2,197	4,287	6,734	7,595
	Battery Storage	-	12	(27)	(47)	(127)	(348)	(1,163)	(1,402)
	Imports	391	336	251	255	270	225	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	620	1,455
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	458	372	536	2,237	10,954	12,232

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Annual Energy (GWh) 2021	2024	2025	2027	2031	2035	2040	2045
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	3	4	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	868	928	983	689	-	-
	Gas - Combustion Turbine	1,027	1,169	692	732	627	210	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	743	765	755	469	1,700	1,650
	Solar	289	952	1,460	1,525	2,217	4,074	4,752	6,753
	Battery Storage	-	12	(31)	(46)	(122)	(300)	(336)	(515)
	Imports	391	336	209	230	171	129	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	442	404
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	616	528	575	1,636	3,102	3,585

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Scenario	Resource Type	Installed Capacity (MW) 2021	2024	2025	2027	2031	2035	2040	2045
Least-Cost (Reference Case)	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	952	1,111	1,318
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	109	196
	Solar	115	385	629	629	904	1,241	1,298	1,580
	Battery Storage	-	50	183	256	582	1,032	1,116	1,284
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Least-Cost Case + ETA Resources	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	879	999	1,154
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	204	204	204	204	204	264
	Solar	115	385	629	629	887	1,482	1,684	2,050
	Battery Storage	-	50	183	236	552	1,084	1,252	1,698
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Separate System Planning	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	835	835	989
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	87	87	87	87	87	159
	Solar	115	385	707	707	905	1,667	2,322	2,639
	Battery Storage	-	50	271	293	634	1,480	2,207	2,579
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Installed Capacity (MW) 2021	2024	2025	2027	2031	2035	2040	2045
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	825	825	989
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	129	129	129	129	172	212
	Solar	115	385	672	672	936	1,290	1,645	1,990
	Battery Storage	-	50	269	291	601	1,038	1,420	1,741
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	121	195	206
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Load Growth	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	847	989	1,182
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	96	96	96	96	96	153
	Solar	115	385	541	541	743	1,162	1,216	1,489
	Battery Storage	-	50	192	193	454	1,012	1,093	1,257
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Load Growth	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	1,062	1,237	1,451
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	123	123	123	123	123	266
	Solar	115	385	677	677	1,046	1,309	1,369	1,660
	Battery Storage	-	50	249	342	716	1,048	1,136	1,307
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Installed Capacity (MW) 2021	2024	2025	2027	2031	2035	2040	2045
High DG	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	942	1,078	1,322
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	106	106	106	106	106	249
	Solar	115	385	587	587	761	1,011	1,092	1,023
	Battery Storage	-	50	183	252	571	1,043	1,151	1,267
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	42	169	210	293	455	614	809	1,032
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High DSM	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	801	926	1,105
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	70	70	70	70	70	127
	Solar	115	385	558	558	641	1,146	1,189	1,384
	Battery Storage	-	50	187	191	425	1,000	1,070	1,209
	Imports	-	-	-	-	-	-	-	-
	Demand Response	49	66	71	82	100	101	103	103
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No New Gas	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	668	668	668
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	132	132	132	132	132	132
	Solar	115	385	629	629	908	2,129	2,734	3,644
	Battery Storage	-	50	183	251	573	1,864	2,496	3,634
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Installed Capacity (MW) 2021	2024	2025	2027	2031	2035	2040	2045
No Lifetime Extensions	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	234	234	144	144	-	-	-
	Gas - Combined Cycle	493	493	493	266	266	266	266	266
	Gas - Combustion Turbine	503	731	731	914	851	951	1,109	1,318
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	118	118	118	118	118	196
	Solar	115	385	769	769	1,018	1,235	1,292	1,579
	Battery Storage	-	50	230	434	743	1,031	1,115	1,284
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Gas Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	930	1,088	1,274
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	142	142	142	142	142	264
	Solar	115	385	629	629	905	1,312	1,369	1,712
	Battery Storage	-	50	183	249	570	1,047	1,131	1,312
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Carbon Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	920	1,078	1,267
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	181	181	181	181	181	267
	Solar	115	385	629	629	894	1,312	1,369	1,747
	Battery Storage	-	50	183	240	559	1,047	1,131	1,319
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Medium Carbon Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	909	1,060	1,248
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	236	236	236	236	236	300
	Solar	115	385	724	724	882	1,312	1,390	1,813
	Battery Storage	-	50	183	228	547	1,047	1,136	1,343
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Carbon Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	901	1,001	1,024
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	300	300	300	300	300	301
	Solar	115	385	927	927	972	1,312	1,640	2,583
	Battery Storage	-	50	183	211	521	1,047	1,189	2,082
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% Clean by 2035	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	938	1,075	1,253
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	194	285
	Solar	115	385	629	629	915	1,312	1,369	1,805
	Battery Storage	-	50	183	256	580	1,047	1,131	1,331
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
20% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	952	1,111	1,270
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	109	264
	Solar	115	385	629	629	904	1,242	1,299	1,733
	Battery Storage	-	50	183	256	582	1,032	1,116	1,316
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
40% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	939	1,064	1,178
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	221	300
	Solar	115	385	629	629	915	1,310	1,390	2,052
	Battery Storage	-	50	183	256	580	1,045	1,135	1,573
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
60% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	938	987	1,029
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	300	301
	Solar	115	385	629	629	915	1,311	1,822	2,573
	Battery Storage	-	50	183	256	580	1,046	1,194	2,062
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
80% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	885	885	885
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	192	192	192	192	507	507
	Solar	115	385	629	629	891	1,475	2,226	3,013
	Battery Storage	-	50	183	238	556	1,080	1,416	2,455
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
90% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	819	819	819
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	192	192	192	192	764	772
	Solar	115	385	628	628	891	1,681	2,284	3,081
	Battery Storage	-	50	183	238	556	1,276	1,601	2,627
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	668	668	668
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	132	132	132	132	1,228	1,605
	Solar	115	385	629	629	908	2,129	4,851	5,217
	Battery Storage	-	50	183	251	573	1,864	6,191	7,470
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	298	701
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	-	-
	Gas - Combustion Turbine	503	731	731	731	668	774	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	231	231	231	231	687	687
	Solar	115	385	628	628	883	1,801	2,353	3,200
	Battery Storage	-	50	183	233	548	1,403	1,804	2,864
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	1,040	1,040
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
Least-Cost (Reference Case)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	512	671	878
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	109	196
	Solar	-	270	514	514	789	1,196	1,280	1,842
	Battery Storage	-	50	183	256	582	1,032	1,116	1,334
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Least-Cost Case + ETA Resources	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	439	559	714
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	204	204	204	204	204	264
	Solar	-	270	514	514	772	1,437	1,666	2,312
	Battery Storage	-	50	183	236	552	1,084	1,252	1,748
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Separate System Planning	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	395	395	549
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	87	87	87	87	87	159
	Solar	-	270	592	592	790	1,622	2,304	2,901
	Battery Storage	-	50	271	293	634	1,480	2,207	2,629
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Additions (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	385	385	549
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	129	129	129	129	172	212
	Solar	-	270	557	557	821	1,245	1,627	2,252
	Battery Storage	-	50	269	291	601	1,038	1,420	1,791
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	121	195	206
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Load Growth	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	407	549	742
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	96	96	96	96	96	153
	Solar	-	270	426	426	628	1,117	1,198	1,751
	Battery Storage	-	50	192	193	454	1,012	1,093	1,307
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Load Growth	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	622	797	1,011
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	123	123	123	123	123	266
	Solar	-	270	562	562	931	1,264	1,351	1,922
	Battery Storage	-	50	249	342	716	1,048	1,136	1,357
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
High DG	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	502	638	882
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	106	106	106	106	106	249
	Solar	-	270	472	472	646	966	1,074	1,285
	Battery Storage	-	50	183	252	571	1,043	1,151	1,317
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	42	169	210	293	455	614	809	1,032
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High DSM	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	361	486	665
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	70	70	70	70	70	127
	Solar	-	270	443	443	526	1,101	1,171	1,646
	Battery Storage	-	50	187	191	425	1,000	1,070	1,259
	Imports	-	-	-	-	-	-	-	-
	Demand Response	49	66	71	82	100	101	103	103
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No New Gas	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	228	228	228
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	132	132	132	132	132	132
	Solar	-	270	514	514	793	2,084	2,716	3,906
	Battery Storage	-	50	183	251	573	1,864	2,496	3,684
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
No Lifetime Extensions	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	411	411	511	669	878
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	118	118	118	118	118	196
	Solar	-	270	654	654	903	1,190	1,274	1,841
	Battery Storage	-	50	230	434	743	1,031	1,115	1,334
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Gas Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	490	648	834
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	142	142	142	142	142	264
	Solar	-	270	514	514	790	1,267	1,351	1,974
	Battery Storage	-	50	183	249	570	1,047	1,131	1,362
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	480	638	827
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	181	181	181	181	181	267
	Solar	-	270	514	514	779	1,267	1,351	2,009
	Battery Storage	-	50	183	240	559	1,047	1,131	1,369
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
Medium Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	469	620	808
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	236	236	236	236	236	300
	Solar	-	270	609	609	767	1,267	1,372	2,075
	Battery Storage	-	50	183	228	547	1,047	1,136	1,393
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	461	561	584
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	300	300	300	300	300	301
	Solar	-	270	812	812	857	1,267	1,622	2,845
	Battery Storage	-	50	183	211	521	1,047	1,189	2,132
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% Clean by 2035	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	498	635	813
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	194	285
	Solar	-	270	514	514	800	1,267	1,351	2,067
	Battery Storage	-	50	183	256	580	1,047	1,131	1,381
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

		Cumulative Capacity Additions (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
20% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	512	671	830
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	109	264
	Solar	-	270	514	514	789	1,197	1,281	1,995
	Battery Storage	-	50	183	256	582	1,032	1,116	1,366
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
40% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	499	624	738
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	221	300
	Solar	-	270	514	514	800	1,265	1,372	2,314
	Battery Storage	-	50	183	256	580	1,045	1,135	1,623
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
60% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	498	547	589
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	300	301
	Solar	-	270	514	514	800	1,266	1,804	2,835
	Battery Storage	-	50	183	256	580	1,046	1,194	2,112
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
80% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	445	445	445
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	192	192	192	192	507	507
	Solar	-	270	514	514	776	1,430	2,208	3,275
	Battery Storage	-	50	183	238	556	1,080	1,416	2,505
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
90% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	379	379	379
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	192	192	192	192	764	772
	Solar	-	270	513	513	776	1,636	2,266	3,343
	Battery Storage	-	50	183	238	556	1,276	1,601	2,677
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	228	228	228
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	132	132	132	132	1,228	1,605
	Solar	-	270	514	514	793	2,084	4,833	5,479
	Battery Storage	-	50	183	251	573	1,864	6,191	7,470
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	298	701
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	334	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	231	231	231	231	687	687
	Solar	-	270	513	513	768	1,756	2,335	3,462
	Battery Storage	-	50	183	233	548	1,403	1,804	2,914
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	334	334
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
Least-Cost (Reference Case)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Least-Cost Case + ETA Resources	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Separate System Planning	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Load Growth	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Load Growth	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
High DG	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High DSM	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No New Gas	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
No Lifetime Extensions	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(192)	(192)	(282)	(282)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	(227)	(227)	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Gas Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
Medium Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% Clean by 2035	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
20% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
40% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
60% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
80% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
90% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Resource Type	Cumulative Capacity Retirements (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-1: E3 EPE Report Model Results June

Scenario	Annual Revenue Requirement ($M)							
	2021	2024	2025	2027	2031	2035	2040	2045
Least-Cost (Reference Case)	$ 246	$ 233	$ 246	$ 265	$ 290	$ 351	$ 409	$ 512
Least-Cost Case + ETA Resources	$ 246	$ 233	$ 249	$ 266	$ 291	$ 356	$ 412	$ 519
Separate System Planning	$ 247	$ 234	$ 252	$ 269	$ 295	$ 376	$ 471	$ 577
Separate System Planning (w/ H2)	$ 247	$ 234	$ 252	$ 269	$ 294	$ 355	$ 438	$ 543
Low Load Growth	$ 239	$ 227	$ 239	$ 255	$ 275	$ 327	$ 380	$ 478
High Load Growth	$ 253	$ 239	$ 256	$ 277	$ 307	$ 377	$ 439	$ 546
High DG	$ 245	$ 231	$ 243	$ 261	$ 283	$ 336	$ 388	$ 482
High DSM	$ 245	$ 230	$ 241	$ 256	$ 272	$ 317	$ 364	$ 454
No New Gas	$ 246	$ 233	$ 247	$ 265	$ 290	$ 394	$ 470	$ 601
No Lifetime Extensions	$ 246	$ 228	$ 246	$ 276	$ 307	$ 354	$ 412	$ 515
High Gas Price	$ 257	$ 242	$ 252	$ 272	$ 297	$ 358	$ 418	$ 522
Low Carbon Price	$ 291	$ 277	$ 285	$ 304	$ 329	$ 390	$ 450	$ 556
Medium Carbon Price	$ 358	$ 341	$ 342	$ 361	$ 386	$ 447	$ 512	$ 623
High Carbon Price	$ 469	$ 449	$ 433	$ 452	$ 478	$ 539	$ 609	$ 730
80% Clean by 2035	$ 246	$ 233	$ 246	$ 265	$ 290	$ 352	$ 409	$ 512
20% CO2 Red. by 2040	$ 246	$ 233	$ 246	$ 265	$ 290	$ 351	$ 409	$ 511
40% CO2 Red. by 2040	$ 246	$ 233	$ 246	$ 265	$ 290	$ 352	$ 409	$ 519
60% CO2 Red. by 2040	$ 246	$ 233	$ 246	$ 265	$ 290	$ 352	$ 421	$ 537
80% CO2 Red. by 2040	$ 246	$ 233	$ 248	$ 266	$ 290	$ 356	$ 464	$ 580
90% CO2 Red. by 2040	$ 246	$ 233	$ 248	$ 266	$ 290	$ 366	$ 503	$ 620
100% CO2 Red. by 2040	$ 246	$ 233	$ 247	$ 265	$ 290	$ 394	$ 1,102	$ 1,269
100% CO2 Red. by 2040 (w/ H2)	$ 246	$ 233	$ 250	$ 267	$ 291	$ 375	$ 561	$ 675

Attachment D-1: E3 EPE Report Model Results June

		Clean Energy (% of Load)							
Scenario	**Clean Energy Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	Renewable %	4%	12%	22%	23%	28%	35%	36%	40%
	Zero Carbon %	62%	68%	77%	76%	79%	81%	77%	75%
Least-Cost Case + ETA Resources	Renewable %	4%	12%	25%	26%	32%	39%	42%	48%
	Zero Carbon %	62%	68%	80%	79%	82%	86%	83%	83%
Separate System Planning	Renewable %	4%	12%	23%	23%	28%	39%	42%	46%
	Zero Carbon %	62%	68%	78%	77%	78%	85%	83%	81%
Separate System Planning (w/ H2)	Renewable %	4%	12%	24%	24%	29%	36%	41%	45%
	Zero Carbon %	62%	68%	79%	78%	80%	82%	83%	80%
Low Load Growth	Renewable %	4%	12%	20%	20%	25%	34%	35%	38%
	Zero Carbon %	64%	70%	77%	76%	77%	82%	77%	75%
High Load Growth	Renewable %	4%	12%	23%	24%	31%	36%	36%	41%
	Zero Carbon %	61%	66%	77%	76%	80%	80%	76%	75%
High DG	Renewable %	4%	13%	22%	24%	29%	35%	37%	40%
	Zero Carbon %	63%	70%	78%	77%	79%	82%	78%	76%
High DSM	Renewable %	4%	12%	19%	20%	23%	33%	34%	37%
	Zero Carbon %	63%	69%	76%	75%	75%	82%	78%	75%
No New Gas	Renewable %	4%	12%	22%	23%	29%	44%	51%	58%
	Zero Carbon %	62%	68%	78%	77%	79%	90%	91%	93%
No Lifetime Extensions	Renewable %	4%	12%	24%	26%	31%	35%	36%	40%
	Zero Carbon %	62%	68%	80%	80%	81%	81%	77%	75%
High Gas Price	Renewable %	4%	12%	23%	24%	29%	36%	37%	43%
	Zero Carbon %	62%	68%	78%	78%	80%	83%	78%	78%
Low Carbon Price	Renewable %	4%	12%	24%	25%	31%	37%	38%	43%
	Zero Carbon %	62%	68%	80%	79%	81%	84%	79%	79%
Medium Carbon Price	Renewable %	4%	12%	27%	28%	33%	39%	41%	46%
	Zero Carbon %	62%	68%	83%	82%	83%	86%	82%	81%
High Carbon Price	Renewable %	4%	12%	31%	32%	35%	41%	45%	54%
	Zero Carbon %	62%	68%	86%	86%	85%	87%	86%	89%
80% Clean by 2035	Renewable %	4%	12%	22%	23%	29%	36%	39%	45%
	Zero Carbon %	62%	68%	77%	76%	79%	82%	80%	80%
20% CO2 Red. by 2040	Renewable %	4%	12%	22%	23%	29%	35%	36%	43%
	Zero Carbon %	62%	68%	77%	76%	79%	81%	77%	79%
40% CO2 Red. by 2040	Renewable %	4%	12%	22%	23%	29%	36%	40%	49%
	Zero Carbon %	62%	68%	77%	76%	79%	82%	81%	84%
60% CO2 Red. by 2040	Renewable %	4%	12%	22%	23%	29%	35%	46%	54%
	Zero Carbon %	62%	68%	77%	76%	79%	82%	87%	89%
80% CO2 Red. by 2040	Renewable %	4%	12%	24%	25%	31%	39%	53%	59%
	Zero Carbon %	62%	68%	80%	79%	81%	86%	93%	94%
90% CO2 Red. by 2040	Renewable %	4%	12%	24%	25%	31%	42%	56%	62%
	Zero Carbon %	62%	68%	80%	79%	81%	88%	97%	97%
100% CO2 Red. by 2040	Renewable %	4%	12%	22%	23%	29%	44%	62%	67%
	Zero Carbon %	62%	68%	78%	77%	79%	90%	100%	100%
100% CO2 Red. by 2040 (w/ H2)	Renewable %	4%	12%	25%	26%	32%	45%	56%	62%
	Zero Carbon %	62%	68%	81%	80%	83%	91%	100%	100%

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El Paso Electric IRP Modeling Update

Portfolio Analysis Results

6/1/2021

Arne Olson, Senior Partner
Jack Moore, Director
Joe Hooker, Senior Managing Consultant
Huai Jiang, Senior Consultant
Manu Mogadali, Senior Consultant
Chen Zhang, Consultant

Agenda

- Assumption updates
- Updated Reference Case results
- High DSM sensitivity results
- New Mexico REA Requirements
- New Mexico REA Scenario Results

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Assumption Updates

Unit Lifetime Extensions

- **E3 modeled unit lifetime extensions for the following units that are currently scheduled to retire prior to 2030**

Resource	Planned Retirement Year	Extension Period	Capital + Fixed O&M (2021 $/kW-yr)
Rio Grande 7	2022	5 years	$113.73
Newman 1	2022	5 years	$78.59
Newman 2	2022	5 years	$79.98
Newman 3	2026	5 years	$58.12
Newman 4	2026	5 years	$47.44

- **In the modeling, unit extensions for Rio Grande 7 and Newman 2 are not selected, but the other unit extensions are**

Planning Reserve Margin

- **The modeling assumes a 2-day-in-10-year reliability standard for 2025 as a transition to the more common 1-day-in-10-year reliability standard starting in 2030**

Metric	2025	2030+
Reliability Target	Two days with outages every ten years on average (0.2 LOLE)	One day with outages every ten years on average (0.1 LOLE)
Target PCAP PRM	10.1%	12.9%

LOLE = Loss-of-Load Expectation; PCAP = Perfect Capacity

- **Under this PRM, all generators count toward the PRM based on their effective load carrying capability (ELCC)**

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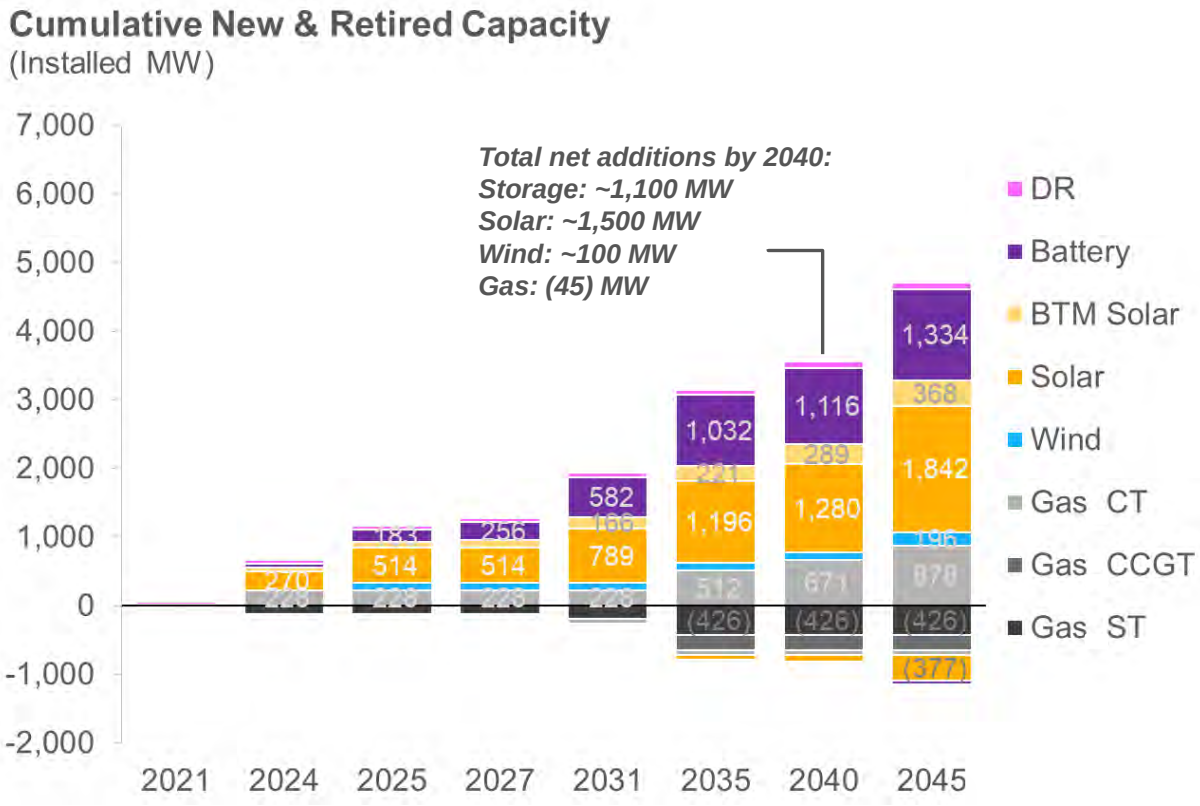
Updated Reference Case Results

Scenarios and Sensitivities

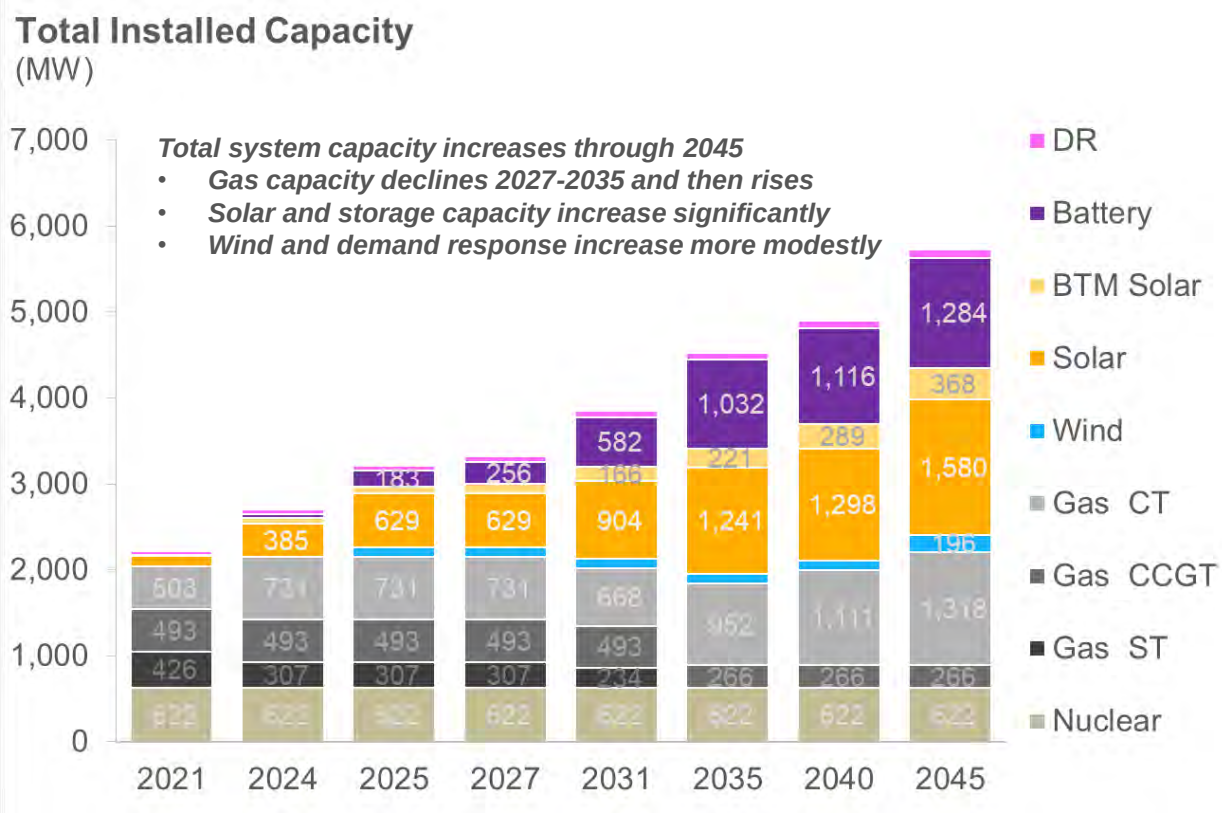
Run	Note	Presented Previously	Presented Today
Least-Cost (Reference Case)	Least-cost optimization used as reference case for all sensitivities	✓	✓
Least-Cost Case + REA Resources	Additional resources added to Least-Cost Case for New Mexico REA		✓
Separate System Planning	New Mexico system planned separately for purposes of satisfying REA		✓
Low Load Growth	3-4% higher native system load forecast		
High Load Growth	3-4% lower native system load forecast		
High DG	High DG forecast		
High DSM	More smart thermostats, doubling of energy efficiency		✓
No New Gas	No new gas after Newman 6		
No Lifetime Extensions	All plants retire as scheduled		
High Gas Price	Gas prices 15% higher		
Low Carbon Price	$8 per metric ton of CO_2 in 2010, rising at 2.5% per year		
Medium Carbon Price	$20 per metric ton of CO_2 in 2010, rising at 2.5% per year		
High Carbon Price	$40 per metric ton of CO_2 in 2010, rising at 2.5% per year		
80% Clean by 2035	80% zero-carbon energy	✓	
20% CO_2 Red. by 2040	20% reduction in CO_2 emissions	✓	
40% CO_2 Red. by 2040	40% reduction in CO_2 emissions	✓	
60% CO_2 Red. by 2040	60% reduction in CO_2 emissions	✓	
80% CO_2 Red. by 2040	80% reduction in CO_2 emissions	✓	
90% CO_2 Red. by 2040	90% reduction in CO_2 emissions	✓	
100% CO_2 Red. by 2040	100% reduction in CO_2 emissions	✓	
100% CO_2 Red. by 2040 (w/ H2)	100% reduction in CO_2 emissions with hydrogen	✓	

Reference Case: Additions and Retirements



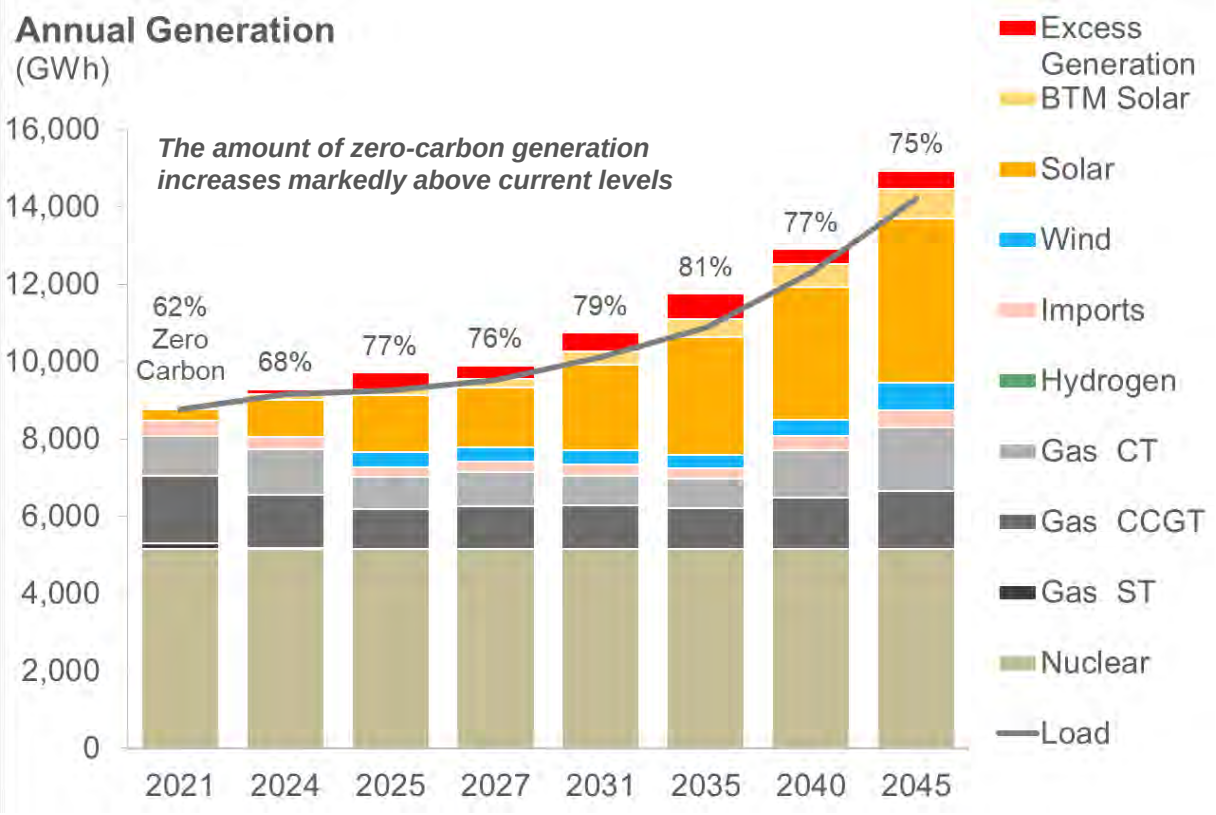
DR = demand response; BTM Solar = behind-the-meter solar

Reference Case: Total Capacity



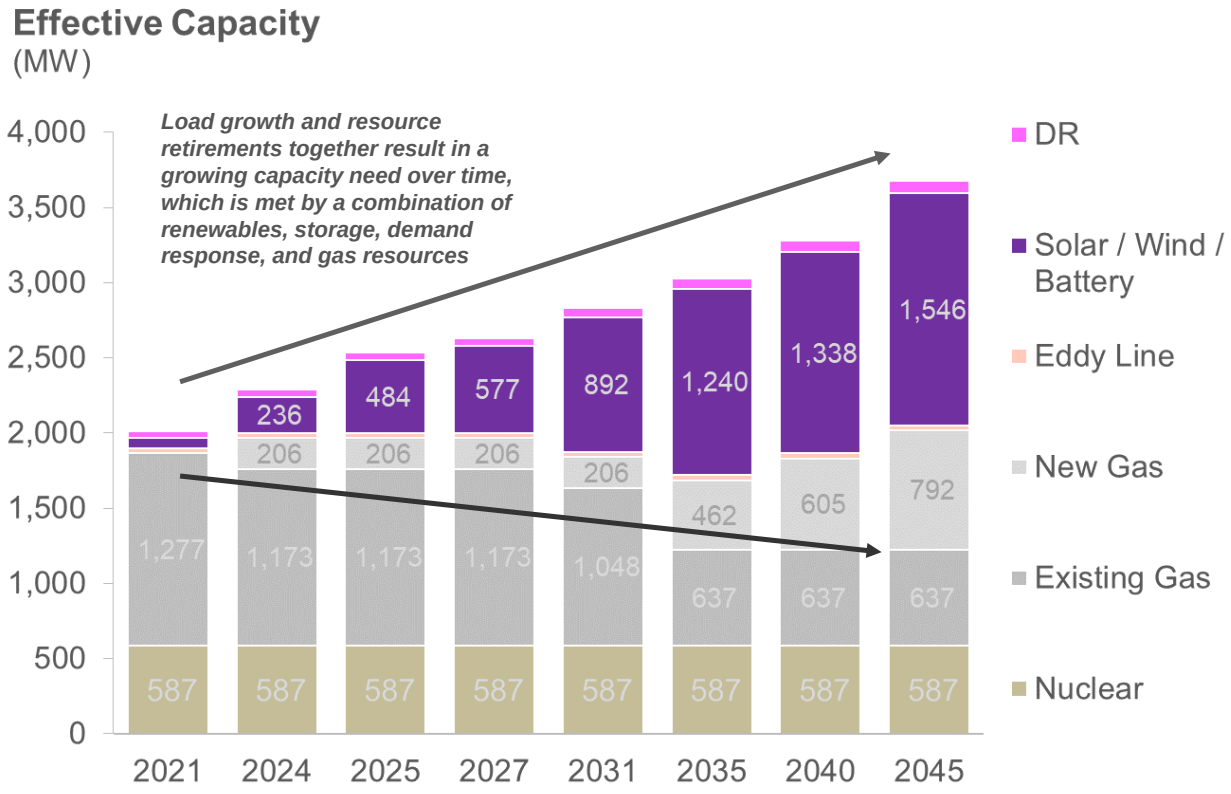
DR = demand response; BTM Solar = behind-the-meter solar

Reference Case: Annual Generation



BTM Solar = behind-the-meter solar

Reference Case: Effective Capacity



Effective capacity is the amount of capacity that can be counted towards the PRM

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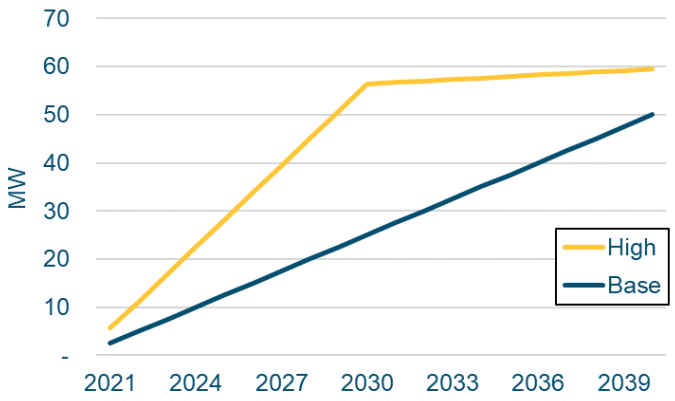
High DSM Sensitivity Results

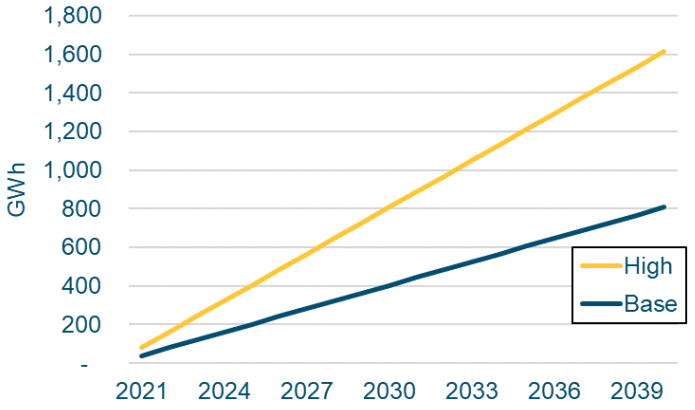
High DSM Sensitivity Assumptions

Smart Thermostats



- Base: 50MW by 2040
- High: 60MW by 2040

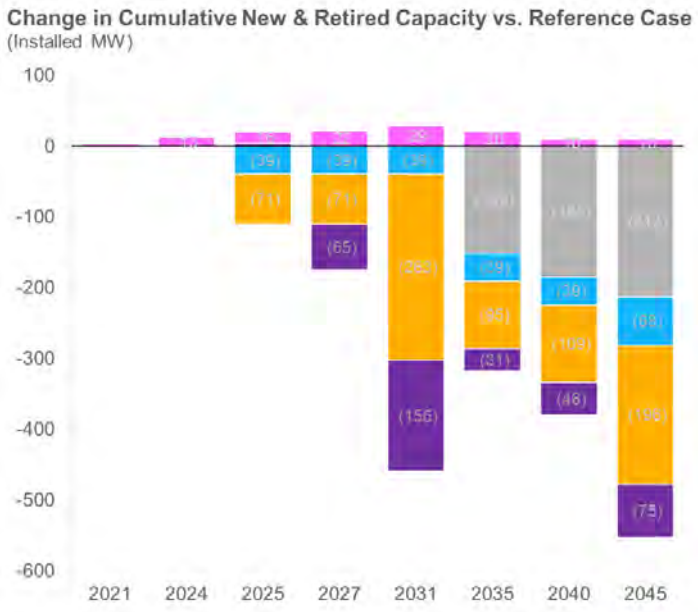
Energy Efficiency



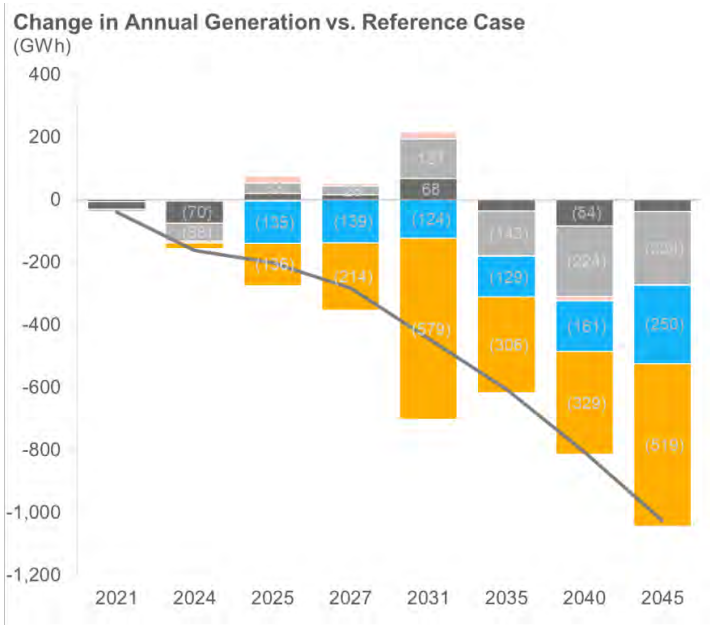
- Base: 6.5% of native system load in 2040
- High: 13% of native system load in 2040
- An incremental ~800 GWh in 2040 Corresponds to ~90 MW of savings on average throughout the year

High DSM Scenario Results

Change in Capacity



Generation Mix



Nuclear Gas ST Gas CCGT Gas CT Imports Wind Solar BTM Solar Battery DR Excess Generation Load

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New Mexico REA Requirements

New Mexico Renewable Energy Act

+ There are key requirements in the statutory language setting renewable energy and zero carbon requirements in New Mexico (emphasis added):

"A public utility shall meet the renewable portfolio standard requirements, as provided in this section, to include renewable energy in its electric energy supply portfolio *as demonstrated by its retirement of renewable energy certificates*; *provided that the associated* ***renewable energy is delivered*** *to the public utility and assigned to the public utility's New Mexico customers*…

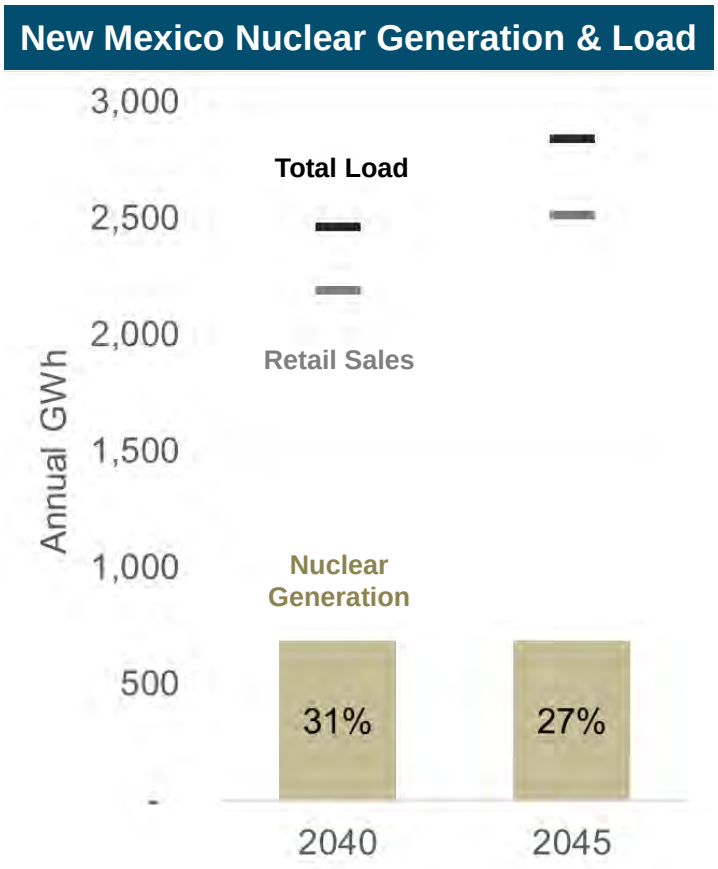
(5) no later than January 1, 2040, renewable energy resources shall supply no less than eighty percent of all retail sales of electricity in New Mexico; *provided that compliance with this standard until December 31, 2047 shall not require the public utility to displace zero carbon resources* in the utility's generation portfolio on the effective date of this 2019 act; and

(6) no later than January 1, 2045, *zero carbon resources shall supply one hundred percent of* ***all retail sales of electricity in New Mexico***. Reasonable and consistent progress shall be made over time toward this requirement."

+ The scenarios analyzed consider multiple approaches for REA implementation

- Share of NM load served with renewable energy, given that El Paso Electric serves NM load with greater than 20% non-renewable zero-carbon resources (i.e. Palo Verde)
- Annual vs. hourly balancing periods for 100% zero-carbon generation
- Whether combustion resources may be utilized to ensure reliability for NM customers

New Mexico REA Requirements in 2040+

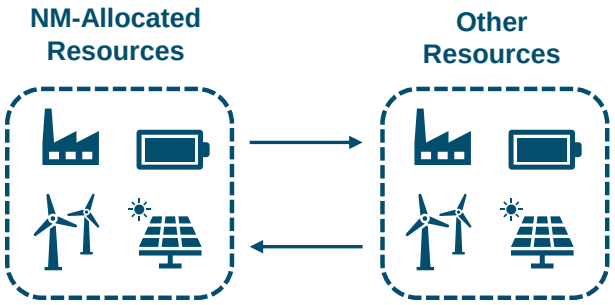


- The REA requires 80% RPS by 2040, unless doing so would require displacing existing zero-carbon generation
- New Mexico's share of Palo Verde 1 and 2 supplies 31% of New Mexico's retail sales in 2040 and 27% in 2045
- For purposes of IRP modeling, El Paso Electric has directed E3 to require New Mexico zero-carbon generation (renewables + nuclear) to equal or exceed 100% of New Mexico retail sales or load starting in 2040

Two Approaches for Modeling Zero-Carbon Generation Balancing

Annual Balancing

- New Mexico-allocated zero-carbon resources must generate enough energy on an annual basis to match the REA NM retail sales target
- Natural gas resources and/or imports can serve New Mexico's energy needs in some hours if that generation is offset by additional zero-carbon generation in other hours
- Annual balancing allows New Mexico customers to reap the benefits of being served by a larger system



NM customers can be served by gas resources and unspecified imports if offset in other hours

Hourly Balancing

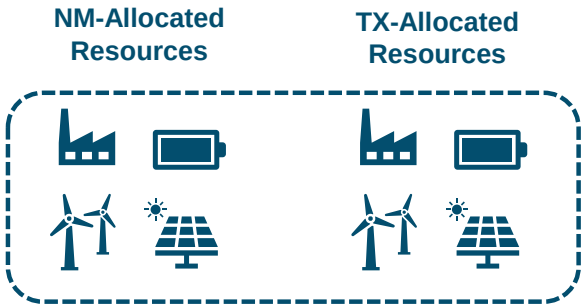
- New Mexico cannot receive power from gas resources or unspecified imports in any hour
- Zero-carbon generation from New Mexico-allocated resources must serve New Mexico energy demand in all hours of the year
- This would be a more stringent zero-carbon requirement, as it would not allow for balancing between New Mexico and Texas resources

NM customers cannot be served by gas resources or unspecified imports an any hour

Two Approaches for Modeling Capacity Pooling to Ensure Reliability

Capacity Pooling Allowed

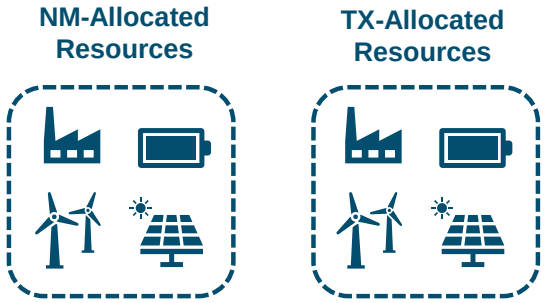
- For reliability planning purposes, NM and TX loads can be served by NM resources, TX resources, and/or system resources
  - If the NM jurisdiction doesn't have enough resources to satisfy load in an hour, then it can rely on TX resources, and vice versa
- NM and TX customers must still pay for enough resources to satisfy their share of system reliability needs



All resources together ensure systemwide reliability across all hours, subject to the reliability standard

Capacity Pooling NOT Allowed

- For planning purposes, TX and NM must each have enough resources to ensure reliability across a range of potential conditions without relying on the other jurisdiction (i.e. on a standalone basis)
- This would be a more stringent planning approach; NM would need to plan to have enough resources without falling back on TX gas resources in some hours



For planning purposes, each jurisdiction ensures reliability on its own across all hours, subject to the reliability standard

New Mexico REA Scenarios and Jurisdictional Allocation

- **E3 modeled a few scenarios with different approaches for how to satisfy the REA requirements**
  - Different approaches of the REA requirements have meaningful implications on how planning is performed for New Mexico customers
  - The more stringent approaches of the REA requirements will result in higher system costs relative to less stringent approaches
  - To ensure equitable treatment of customers across jurisdictions, any incremental costs of satisfying the REA requirements would be allocated to New Mexico customers
- **For each scenario, resources and costs are allocated between the New Mexico and Texas jurisdictions**
  - The allocation of resources follows directly from a particular approach to modeling REA compliance. If a particular approach requires more resources to be added versus the least-cost case, then those resources are allocated to the New Mexico jurisdiction
  - Capacity, generation, and cost for the New Mexico jurisdiction are presented for each scenario

New Mexico REA Scenarios

	Least Cost ("LC")	Least Cost + REA Resources ("LC+REA")	Separate System Planning ("SSP")
Portfolio optimization	Least-cost system optimization	Reoptimize Least Cost to add additional renewables & storage dedicated to NM to satisfy REA requirements	Optimize NM and TX systems independently without modeling interactions between them
NM zero-carbon generation balancing period	Annual	Annual	Hourly
NM and TX capacity pooling to ensure reliability	✓	✓	✗
Resource allocation	Resources allocated proportionally; more RECs allocated to NM	Incremental resources are allocated to New Mexico	Optimization identifies resources specifically for NM and TX jurisdictions
NM allocated new gas capacity	✓	✗	✗

More stringent REA interpretation

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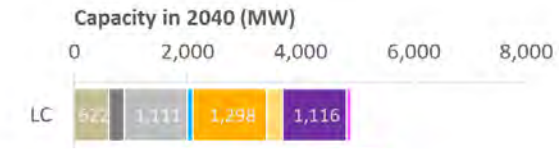
New Mexico REA Scenario Results

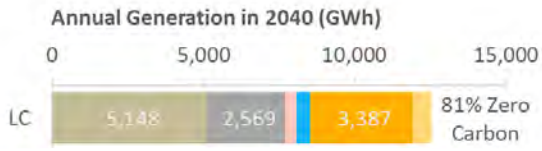
New Mexico REA Scenarios

	Least Cost ("LC")
Portfolio optimization	Least-cost system optimization
NM zero-carbon generation balancing period	Annual
NM and TX capacity pooling to ensure reliability	✓
Resource allocation	Resources allocated proportionally; more RECs allocated to NM
NM allocated new gas capacity	✓

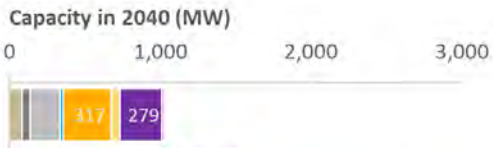
Resource Portfolios and Costs by Scenario
Least Cost Scenario

Total System

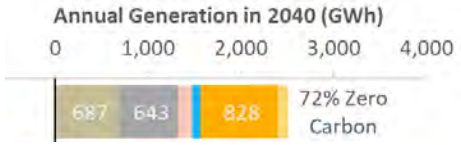




New Mexico



112 MW of new gas capacity is allocated to New Mexico customers by 2040



This analysis does not assume Palo Verde 3 generation is allocated to New Mexico, resulting in a lower zero-carbon generation share than the rest of the system

This scenario allocates a share of new gas capacity to NM customers. This capacity could be converted to run on a higher share of hydrogen fuel in the future. More RECs would be allocated to NM customers to satisfy the REA.

Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Net Purchases (Sales) ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

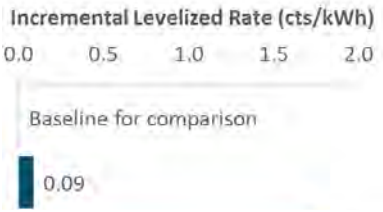
New Mexico REA Scenarios

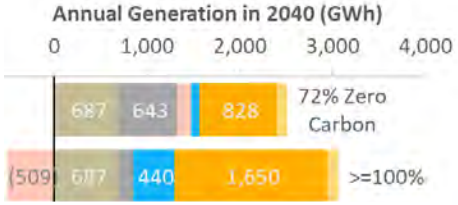
	Least Cost ("LC")	Least Cost + REA Resources ("LC+REA")
Portfolio optimization	Least-cost system optimization	Reoptimize Least Cost to add additional renewables & storage dedicated to NM to satisfy REA requirements
NM zero-carbon generation balancing period	Annual	Annual
NM and TX capacity pooling to ensure reliability	✓	✓
Resource allocation	Resources allocated proportionally; more RECs allocated to NM	Incremental resources are allocated to New Mexico
NM allocated new gas capacity	✓	✗

Resource Portfolios and Costs by Scenario
Least Cost + REA Scenario

Total System

New Mexico





Gas generation serves a portion of New Mexico customers' energy needs in some hours, but that is more than offset by

This scenario adds more solar and storage capacity for NM customers to satisfy the RPS/REA targets, while not allocating any new gas to NM customers. This results in a modest cost increase vs. Least Cost scenario.

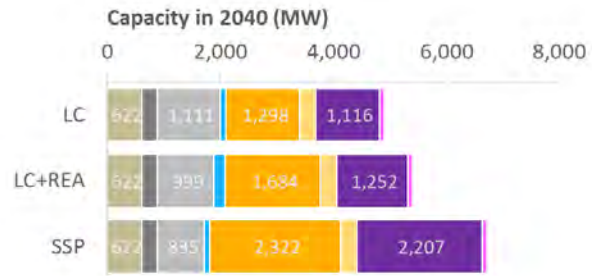
Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Net Purchases (Sales) ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

New Mexico REA Scenarios

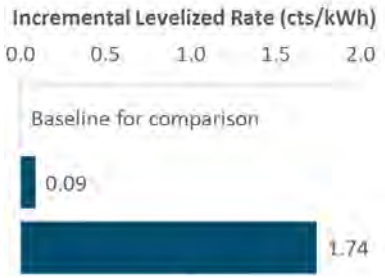
	Least Cost ("LC")	Least Cost + REA Resources ("LC+REA")	Separate System Planning ("SSP")
Portfolio optimization	Least-cost system optimization	Reoptimize Least Cost to add additional renewables & storage dedicated to NM to satisfy REA requirements	Optimize NM and TX systems independently without modeling interactions between them
NM zero-carbon generation balancing period	Annual	Annual	Hourly
NM and TX capacity pooling to ensure reliability	✓	✓	✗
Resource allocation	Resources allocated proportionally; more RECs allocated to NM	Incremental resources are allocated to New Mexico	Optimization identifies resources specifically for NM and TX jurisdictions
NM allocated new gas capacity	✓	✗	✗

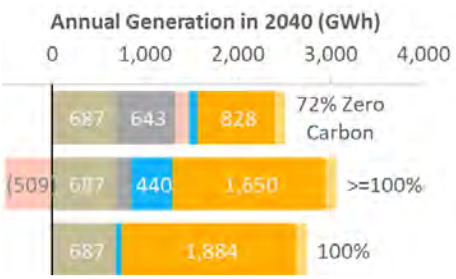
Resource Portfolios and Costs by Scenario
Separate System Planning Scenario

Total System



New Mexico

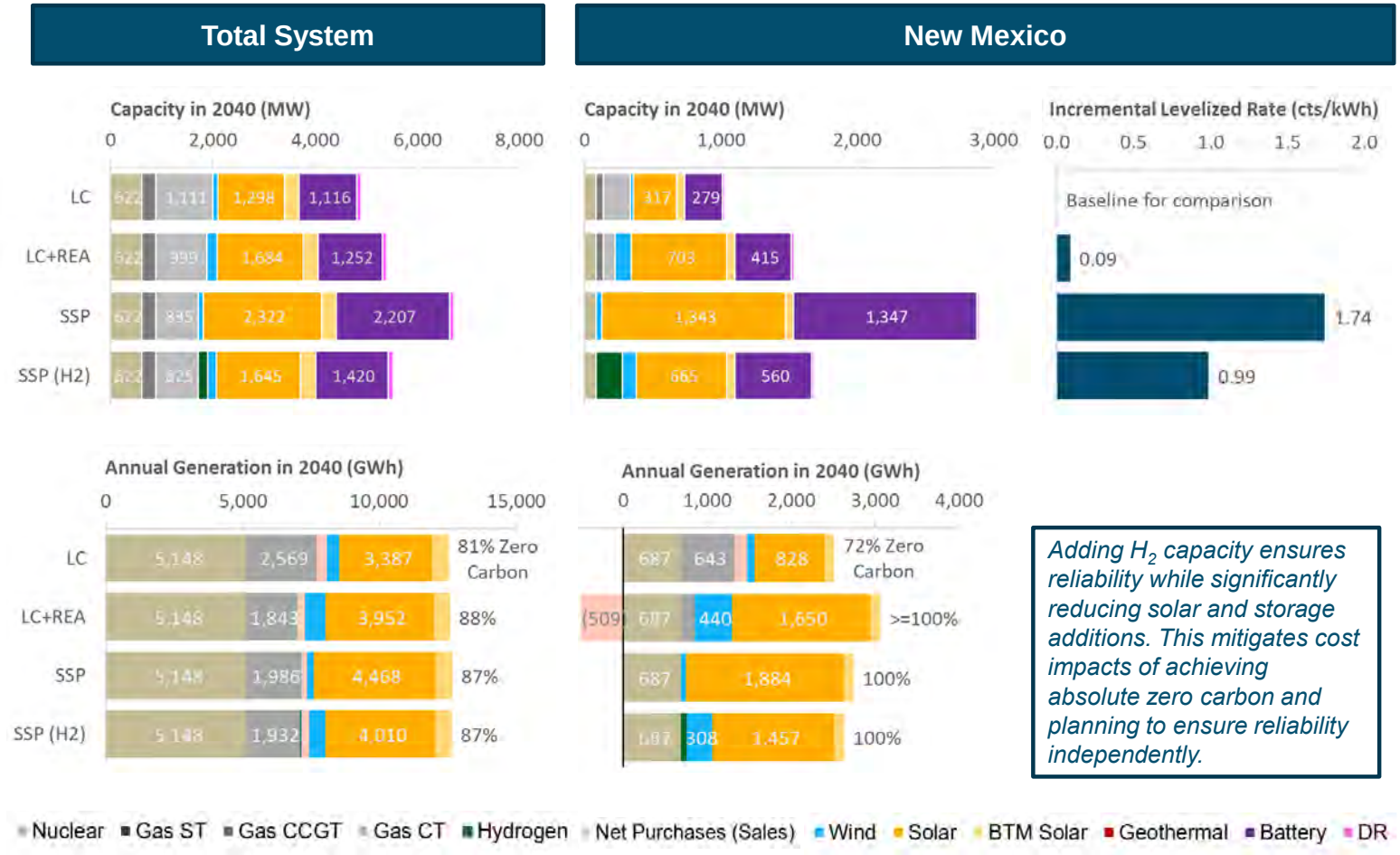




This scenario requires significantly more resources for New Mexico to reach 100% absolute zero carbon and ensure reliability. This results in a significant cost increase relative to the Least Cost scenario.

Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Net Purchases (Sales) ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

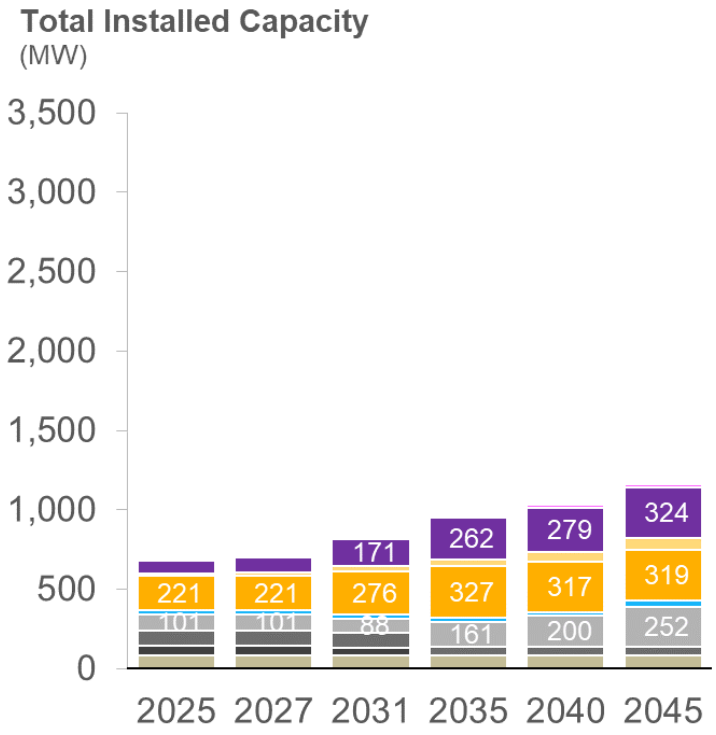
Resource Portfolios and Costs by Scenario
Separate System Planning (H_2) Scenario



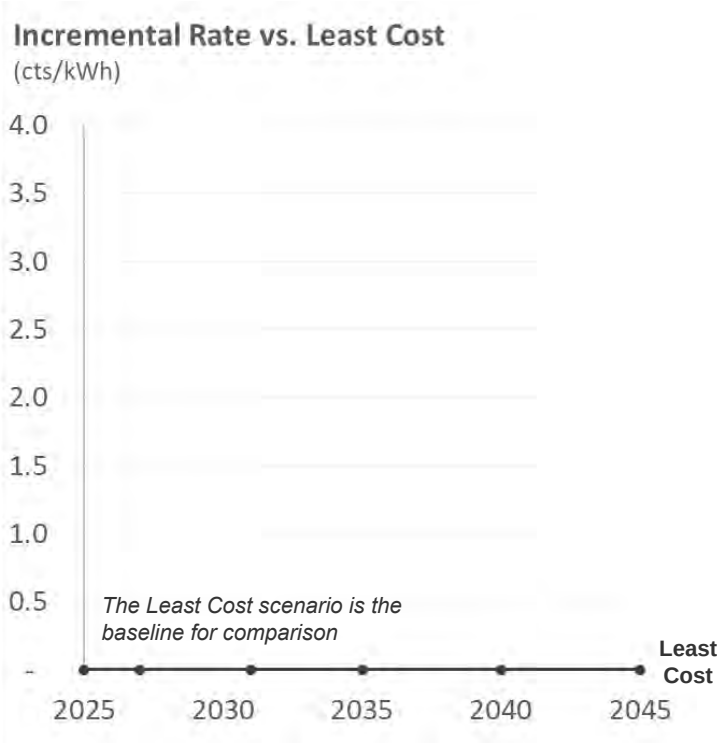
Adding H_2 capacity ensures reliability while significantly reducing solar and storage additions. This mitigates cost impacts of achieving absolute zero carbon and planning to ensure reliability independently.

New Mexico Capacity and Cost
Least Cost Scenario

Least Cost



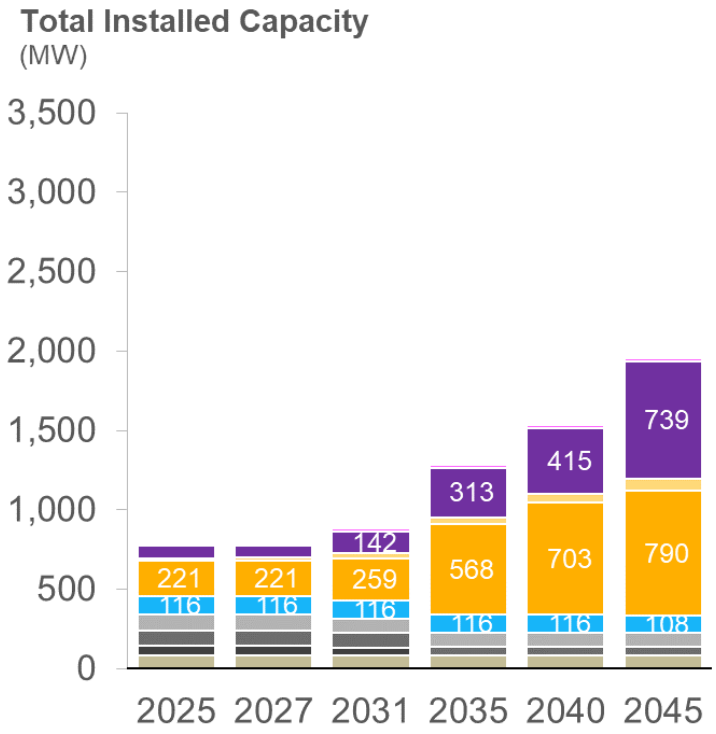
Cost Impact vs. Least Cost Scenario



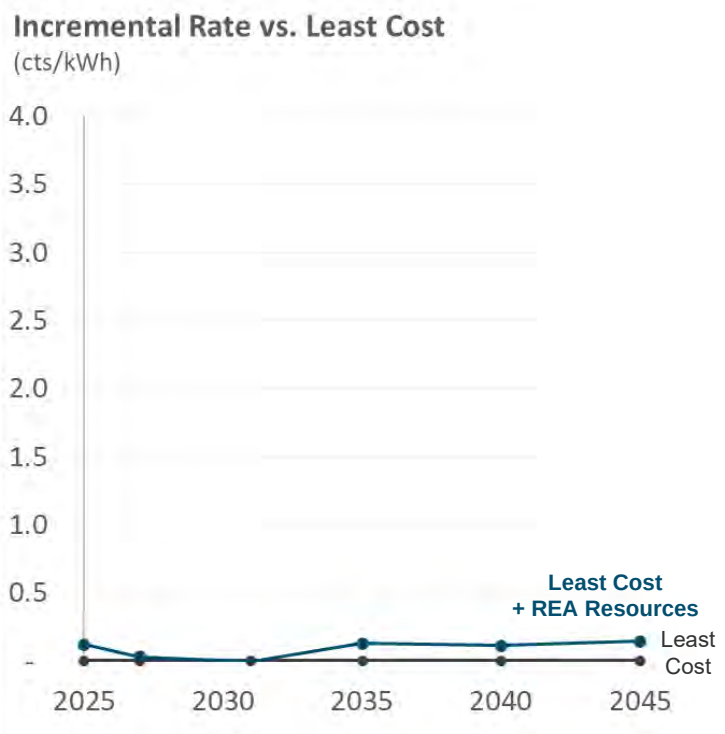
Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

New Mexico Capacity and Cost
Least Cost + REA Resources Scenario

Least Cost + REA Resources



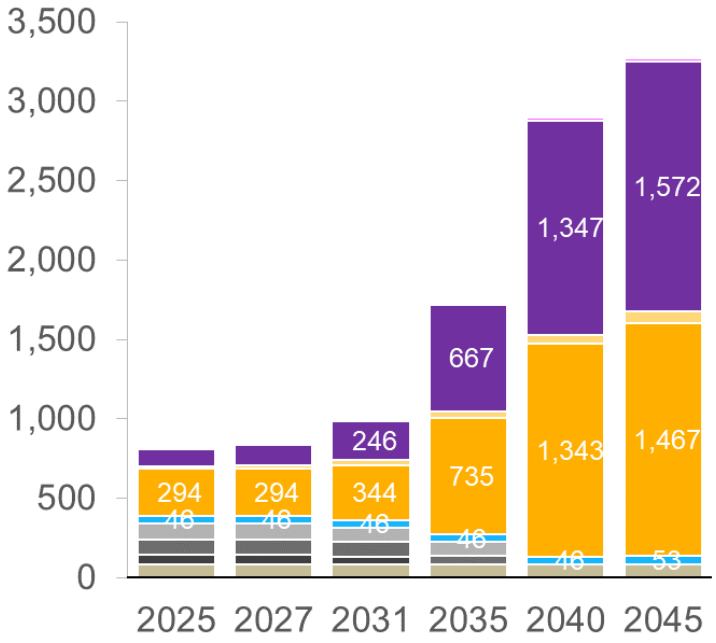
Cost Impact vs. Least Cost Scenario



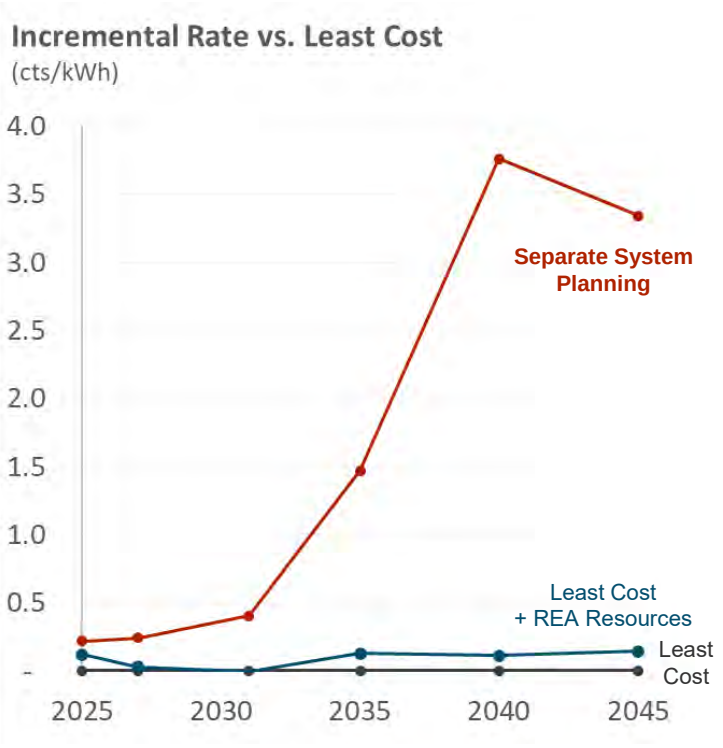
Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

New Mexico Capacity and Cost
Separate System Planning Scenario

Separate System Planning



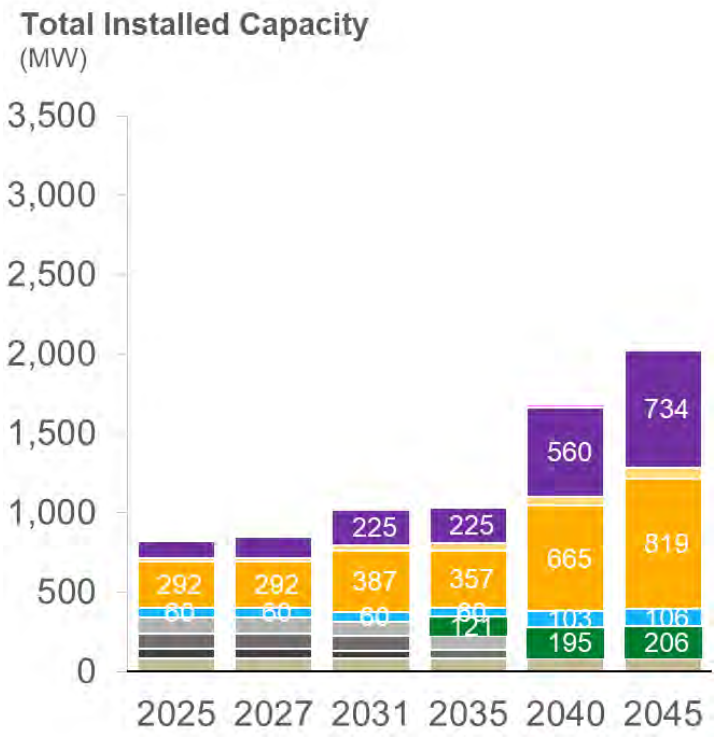
Cost Impact vs. Least Cost Scenario



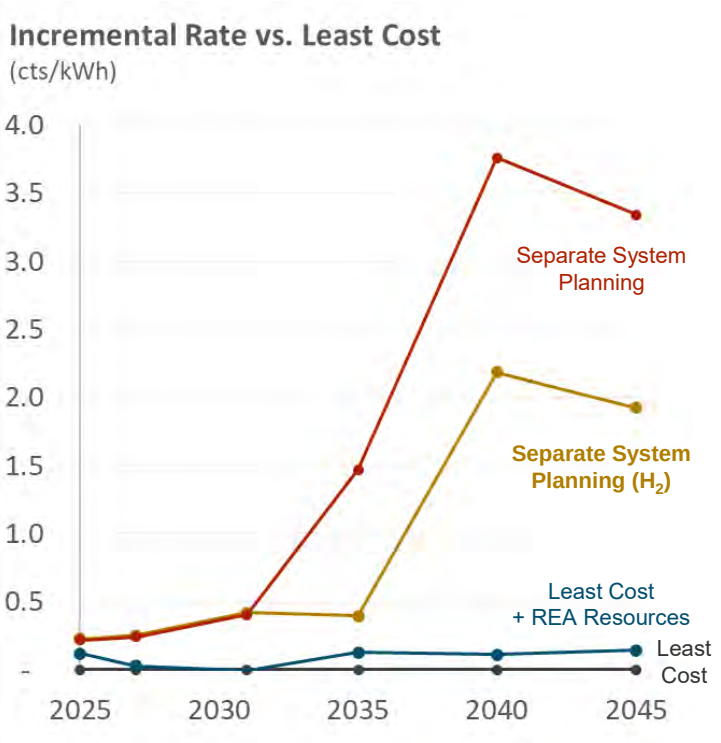
Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

New Mexico Capacity and Cost
Separate System Planning (H_2) Scenario

Separate System Planning (H_2)



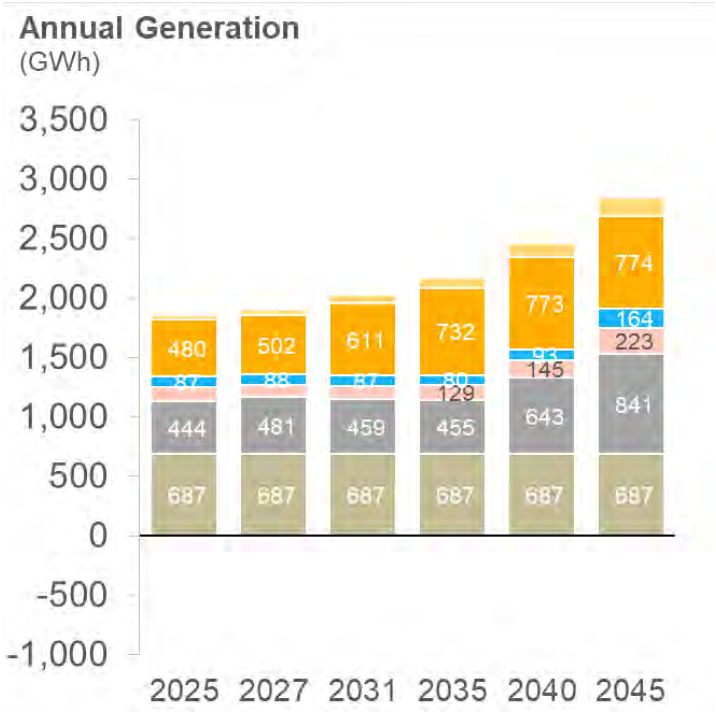
Cost Impact vs. Least Cost Scenario



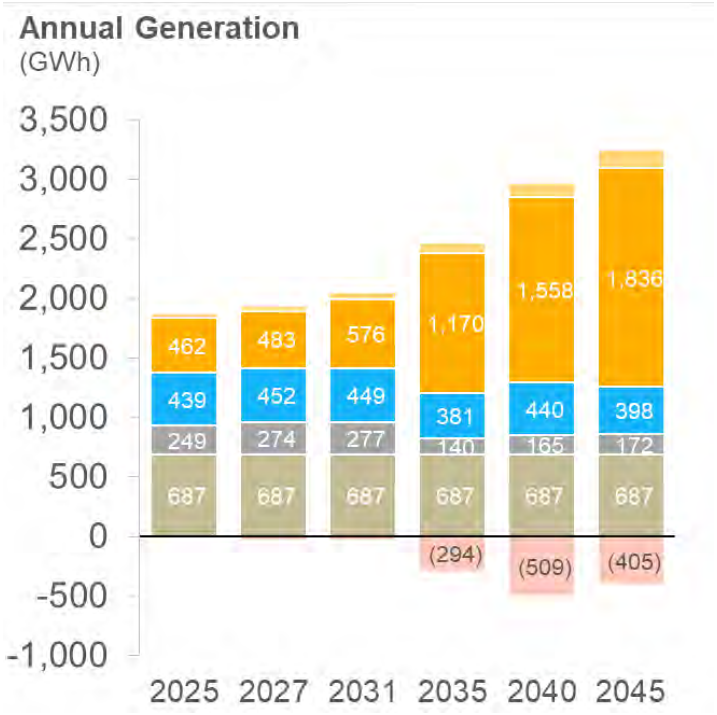
Nuclear ■ Gas ST ■ Gas CCGT ■ Gas CT ■ Hydrogen ■ Wind ■ Solar ■ BTM Solar ■ Geothermal ■ Battery ■ DR

New Mexico Generation Mix
Least Cost and Least Cost + REA Scenarios

Least Cost



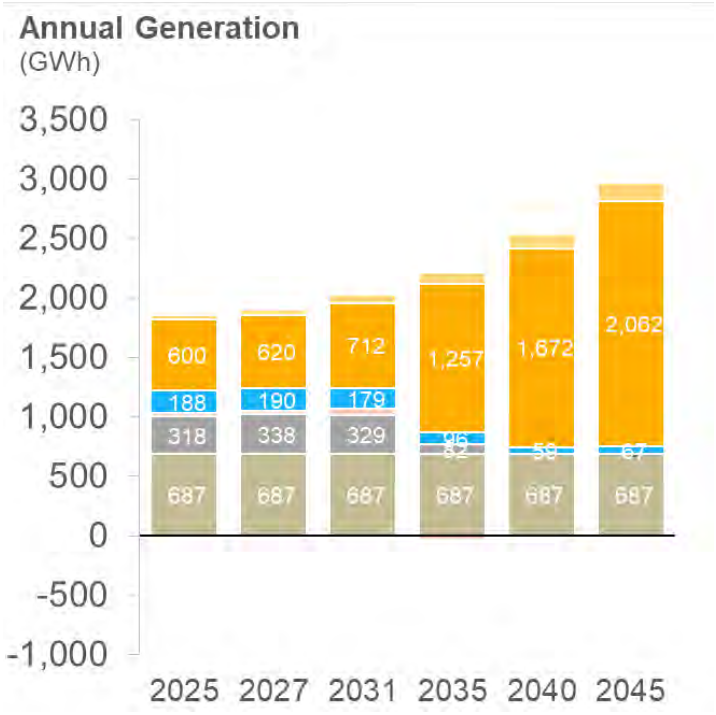
Least Cost + REA Resources



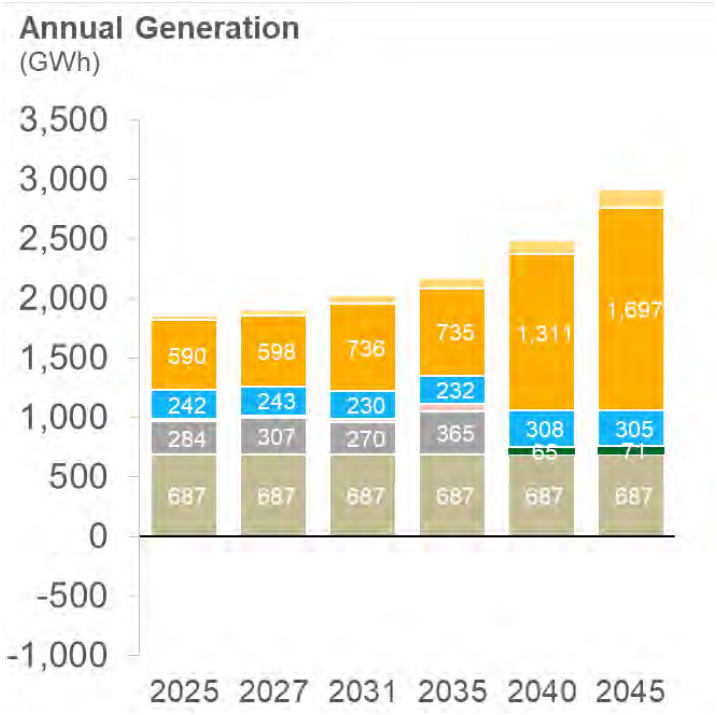
Nuclear Gas Hydrogen Net Purchases Wind Solar BTM Solar

New Mexico Generation Mix
Separate System Planning Scenarios

Separate System Planning



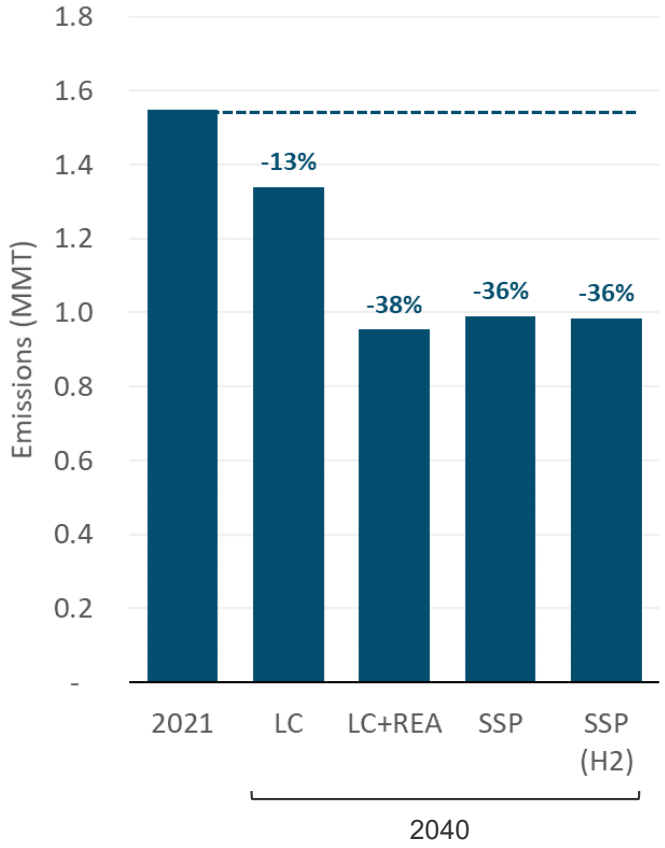
Separate System Planning (H_2)



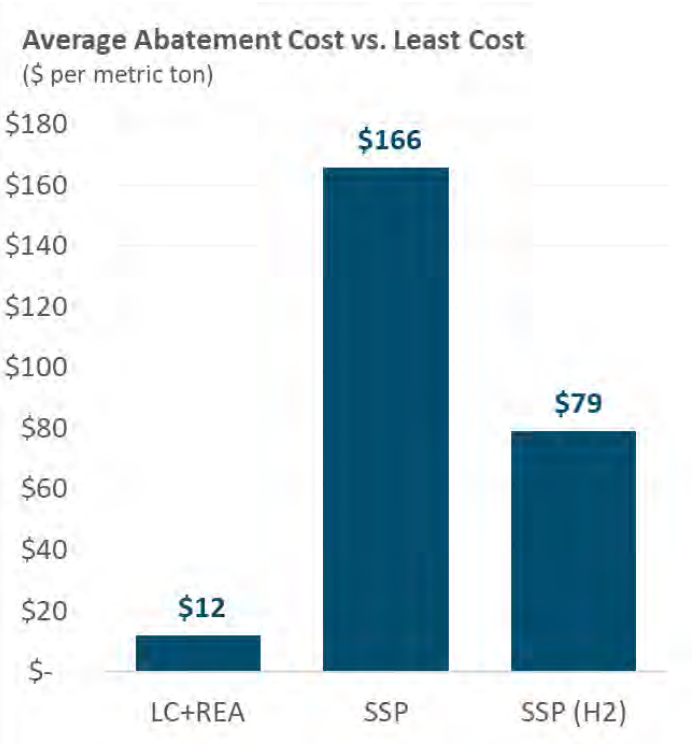
Nuclear Gas Hydrogen Net Purchases Wind Solar BTM Solar

Carbon Emissions Across Scenarios

CO_2 Emissions in 2021 and 2040



Average Abatement Cost 2025-2040



Note: emissions include emissions at company-owned facilities and emissions ascribed to imports

Energy+Environmental Economics

Thank You

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	8	7	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,037	1,148	1,187	1,075	1,321	1,513
	Gas - Combustion Turbine	1,027	1,169	854	925	874	767	1,251	1,657
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	354	357	361	316	381	730
	Solar	289	952	1,450	1,467	2,016	3,050	3,469	4,199
	Battery Storage	-	12	(25)	(26)	(104)	(215)	(223)	(248)
	Imports	391	336	266	261	296	278	360	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	416	397	431	636	374	456
Least-Cost Case + REA Resources	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	4	11	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	926	1,001	1,044	927	966	1,101
	Gas - Combustion Turbine	1,027	1,169	784	855	780	495	761	1,005
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	681	694	699	561	725	995
	Solar	289	952	1,340	1,356	2,030	3,274	4,121	5,334
	Battery Storage	-	12	(29)	(30)	(105)	(236)	(277)	(369)
	Imports	391	336	239	251	182	248	262	226
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	428	400	449	1,144	1,071	892
Separate System Planning	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	1	2	-	-	-	-
	Gas - Combined Cycle	1,763	1,385	1,125	1,238	1,235	1,000	1,201	1,349
	Gas - Combustion Turbine	1,048	1,180	852	922	920	502	768	1,046
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	174	175	169	76	23	398
	Solar	289	950	1,556	1,594	2,135	3,760	4,704	5,638
	Battery Storage	-	11	(55)	(62)	(129)	(300)	(367)	(423)
	Imports	391	328	291	269	301	232	229	283
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	132	304	265	365	1,270	2,517	2,452

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	1	2	-	-	-	-
	Gas - Combined Cycle	1,763	1,385	1,101	1,210	1,223	1,104	1,199	1,348
	Gas - Combustion Turbine	1,048	1,180	843	915	870	762	793	1,072
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	214	215	207	202	285	678
	Solar	289	950	1,551	1,588	2,173	3,139	4,241	5,147
	Battery Storage	-	11	(54)	(61)	(130)	(221)	(311)	(365)
	Imports	391	328	288	270	288	285	278	331
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	74	80
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	132	314	276	474	696	883	967
80% Clean by 2035	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	8	11	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,028	1,131	1,175	1,088	1,160	1,293
	Gas - Combustion Turbine	1,027	1,169	849	922	868	767	1,055	1,256
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	378	381	385	342	650	1,041
	Solar	289	953	1,450	1,463	2,012	3,006	3,689	4,703
	Battery Storage	-	12	(24)	(26)	(103)	(207)	(238)	(289)
	Imports	391	336	255	256	292	274	241	287
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	406	391	436	677	472	735
20% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	8	11	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,027	1,131	1,175	1,089	1,253	1,260
	Gas - Combustion Turbine	1,027	1,169	849	922	868	765	1,132	1,187
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	378	381	385	342	457	1,095
	Solar	289	953	1,442	1,456	2,012	3,007	3,621	4,792
	Battery Storage	-	12	(24)	(26)	(103)	(207)	(236)	(297)
	Imports	391	336	264	264	292	275	332	255
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	129	415	398	436	676	463	752

Attachment D-3: E3 EPE Report Model Results August

Scenario	Resource Type	Annual Energy (GWh) 2021	2024	2025	2027	2031	2035	2040	2045
40% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	8	11	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,027	1,131	1,175	1,089	1,060	1,028
	Gas - Combustion Turbine	1,027	1,169	849	922	868	767	790	822
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	378	381	385	342	783	961
	Solar	289	953	1,441	1,458	2,013	3,004	3,980	5,677
	Battery Storage	-	12	(24)	(26)	(103)	(207)	(264)	(396)
	Imports	391	336	264	262	292	276	210	199
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	415	396	435	680	811	1,196
60% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	12	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,001	1,093	1,143	1,029	780	735
	Gas - Combustion Turbine	1,027	1,169	840	915	852	656	453	483
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	444	448	451	388	853	808
	Solar	289	953	1,419	1,436	2,000	3,174	4,624	6,588
	Battery Storage	-	12	(25)	(26)	(101)	(226)	(312)	(488)
	Imports	391	336	259	260	286	250	161	166
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	129	411	390	452	766	1,514	1,850
80% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	4	11	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	914	986	1,049	835	531	500
	Gas - Combustion Turbine	1,027	1,169	771	842	725	399	127	142
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	722	735	743	584	1,310	1,417
	Solar	289	953	1,329	1,343	2,004	3,491	4,869	6,658
	Battery Storage	-	12	(31)	(30)	(102)	(245)	(342)	(499)
	Imports	391	336	235	251	212	208	63	73
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	444	417	491	1,350	2,580	2,939

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
90% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	4	11	2	-	-	-
	Gas - Combined Cycle	1,767	1,373	908	979	1,009	778	304	290
	Gas - Combustion Turbine	1,027	1,169	766	836	622	291	29	44
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	740	754	763	513	1,964	2,116
	Solar	289	952	1,325	1,339	2,154	3,842	4,535	6,263
	Battery Storage	-	12	(31)	(30)	(100)	(278)	(308)	(453)
	Imports	391	336	232	250	182	125	35	32
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	452	424	650	1,462	3,356	3,714
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	5	7	2	-	-	-
	Gas - Combined Cycle	1,767	1,373	860	928	924	643	-	-
	Gas - Combustion Turbine	1,027	1,169	715	779	558	188	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	896	917	922	557	1,629	1,685
	Solar	289	952	1,284	1,297	2,175	4,069	4,874	6,693
	Battery Storage	-	12	(31)	(32)	(97)	(302)	(345)	(509)
	Imports	391	336	215	242	148	114	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	400	423
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	528	495	798	1,795	3,187	3,597
100% CO2 Red. by 2040	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	12	2	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,013	1,110	924	643	-	-
	Gas - Combustion Turbine	1,027	1,169	843	917	558	188	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	416	419	922	557	1,992	2,629
	Solar	289	952	1,430	1,445	2,175	4,069	4,973	5,542
	Battery Storage	-	12	(25)	(26)	(97)	(302)	(406)	(572)
	Imports	391	336	260	261	148	114	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	1,455
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	412	393	798	1,795	11,640	13,062

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High DG	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	134	31	9	12	1	-	-	-
	Gas - Combined Cycle	1,728	1,317	1,044	1,144	1,175	1,073	1,273	1,538
	Gas - Combustion Turbine	1,028	1,123	885	923	846	711	1,096	1,713
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	338	336	341	295	352	763
	Solar	285	866	1,148	1,107	1,485	2,336	2,661	2,700
	Battery Storage	-	11	(25)	(25)	(105)	(226)	(249)	(243)
	Imports	389	314	273	258	287	265	347	441
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	88	350	436	608	945	1,276	1,680	2,144
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	18	217	389	432	552	696	602	379
High DSM	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	133	30	2	3	0	-	-	-
	Gas - Combined Cycle	1,744	1,303	1,197	1,315	1,357	1,105	1,320	1,460
	Gas - Combustion Turbine	1,020	1,111	977	1,001	989	706	1,104	1,404
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	471
	Solar	288	934	1,274	1,273	1,604	2,760	3,166	3,725
	Battery Storage	-	10	(25)	(23)	(80)	(203)	(216)	(234)
	Imports	390	329	318	286	318	297	377	438
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,731	8,994	9,056	9,230	9,680	10,273	11,501	13,177
	Excess Generation	15	148	197	197	215	541	326	371
Low Load	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	101	27	2	3	2	-	-	-
	Gas - Combined Cycle	1,596	1,244	1,155	1,300	1,422	1,129	1,372	1,496
	Gas - Combustion Turbine	983	1,065	942	985	1,034	759	1,214	1,529
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	523
	Solar	282	919	1,260	1,272	1,563	2,869	3,314	3,970
	Battery Storage	-	8	(26)	(24)	(69)	(209)	(222)	(246)
	Imports	381	325	311	284	315	303	385	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,492	8,862	8,958	9,194	9,759	10,459	11,813	13,623
	Excess Generation	22	163	216	205	224	535	317	399

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Load	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	195	50	7	3	-	-	-	-
	Gas - Combined Cycle	1,909	1,522	1,077	1,166	1,126	1,113	1,386	1,518
	Gas - Combustion Turbine	1,088	1,256	889	937	786	875	1,409	1,781
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	420	424	404	387	450	957
	Solar	293	983	1,618	1,717	2,556	3,249	3,659	4,426
	Battery Storage	-	14	(42)	(64)	(158)	(220)	(224)	(251)
	Imports	400	343	275	273	281	286	373	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	9,050	9,448	9,558	9,830	10,488	11,297	12,803	14,784
	Excess Generation	10	100	381	278	543	642	387	518
No Lifetime Extensions	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	12	2	-	-	-	-
	Gas - Combined Cycle	1,767	1,373	972	1,029	1,055	1,069	1,314	1,513
	Gas - Combustion Turbine	1,027	1,169	744	693	636	764	1,246	1,657
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	364	369	340	337	408	730
	Solar	289	952	1,643	1,894	2,495	3,039	3,457	4,199
	Battery Storage	-	12	(26)	(92)	(164)	(214)	(223)	(248)
	Imports	391	336	235	243	270	276	357	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	669	413	585	637	371	456
No New Gas	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	7	12	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	1,013	1,110	1,156	829	774	714
	Gas - Combustion Turbine	1,027	1,169	843	917	859	294	269	286
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	416	419	423	227	195	209
	Solar	289	952	1,430	1,445	2,002	4,003	5,562	7,483
	Battery Storage	-	12	(25)	(26)	(102)	(320)	(460)	(623)
	Imports	391	336	260	261	293	237	219	223
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	412	393	449	1,709	2,222	2,760

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Low Carbon Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	127	23	4	5	1	-	-	-
	Gas - Combined Cycle	1,803	1,433	1,000	1,092	1,104	988	1,204	1,335
	Gas - Combustion Turbine	1,001	1,107	776	839	788	598	1,076	1,338
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	562	571	569	479	581	943
	Solar	289	958	1,390	1,406	1,988	3,174	3,609	4,556
	Battery Storage	-	11	(30)	(29)	(104)	(228)	(238)	(278)
	Imports	394	345	242	255	285	258	326	397
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	125	403	379	473	835	521	718
Mid Carbon Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	120	22	3	4	1	-	-	-
	Gas - Combined Cycle	1,822	1,496	923	994	1,017	922	1,107	1,275
	Gas - Combustion Turbine	983	1,036	596	663	681	475	938	1,205
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	771	794	801	650	804	1,099
	Solar	290	961	1,474	1,493	2,020	3,264	3,720	4,732
	Battery Storage	-	7	(35)	(36)	(101)	(230)	(245)	(291)
	Imports	399	354	212	227	211	190	235	273
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	13	121	615	574	500	912	572	727
High Carbon Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	119	21	3	3	2	-	-	-
	Gas - Combined Cycle	1,835	1,540	704	778	913	873	962	863
	Gas - Combustion Turbine	962	989	447	494	545	394	614	583
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	881	916	965	778	930	859
	Solar	290	963	1,760	1,782	2,130	3,267	4,138	6,248
	Battery Storage	-	2	(37)	(36)	(98)	(230)	(275)	(458)
	Imports	408	362	187	203	174	188	189	195
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	13	120	1,146	1,089	774	1,061	1,077	1,549

Attachment D-3: E3 EPE Report Model Results August

		Annual Energy (GWh)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Gas Price	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	125	31	6	5	1	-	-	-
	Gas - Combined Cycle	1,787	1,400	1,015	1,115	1,125	1,015	1,242	1,350
	Gas - Combustion Turbine	1,008	1,120	803	853	805	627	1,127	1,365
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	444	448	451	387	467	924
	Solar	290	956	1,419	1,435	1,998	3,161	3,603	4,486
	Battery Storage	-	9	(29)	(28)	(103)	(224)	(235)	(274)
	Imports	403	360	287	309	355	303	354	440
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	13	127	411	390	455	783	483	702
Low Renewable and Storage Costs	Nuclear (Palo Verde)	5,148	5,148	5,148	5,148	5,148	5,148	5,148	5,148
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	140	34	3	6	1	-	-	-
	Gas - Combined Cycle	1,767	1,373	984	1,068	1,096	1,000	1,220	1,278
	Gas - Combustion Turbine	1,027	1,169	842	925	824	652	1,127	1,243
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	558	564	559	474	578	1,026
	Solar	289	952	1,321	1,330	1,975	3,102	3,538	4,621
	Battery Storage	-	12	(29)	(29)	(102)	(221)	(232)	(288)
	Imports	391	336	265	275	279	262	328	411
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	37	135	165	225	344	460	601	763
	Load	8,771	9,155	9,258	9,512	10,123	10,878	12,308	14,203
	Excess Generation	14	130	324	309	486	807	490	896

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	870	1,059	1,216
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	102	102	102	102	102	197
	Solar	115	385	621	621	823	1,235	1,309	1,561
	Battery Storage	-	50	177	177	488	1,029	1,129	1,277
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Least-Cost Case + REA Resources	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	809	942	1,051
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	203	203	203	203	232	300
	Solar	115	385	544	544	795	1,414	1,693	2,037
	Battery Storage	-	50	176	177	460	1,067	1,246	1,682
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Separate System Planning	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	755	755	864
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	49	49	49	49	49	161
	Solar	115	385	639	639	859	1,701	2,450	2,712
	Battery Storage	-	50	280	304	591	1,514	2,344	2,674
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	755	755	864
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	60	60	60	60	107	218
	Solar	115	385	638	638	905	1,312	1,724	2,031
	Battery Storage	-	50	278	303	570	1,057	1,496	1,797
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	123	206	212
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% Clean by 2035	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	910	1,022	1,149
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	185	289
	Solar	115	385	615	615	821	1,233	1,383	1,799
	Battery Storage	-	50	177	177	486	968	1,145	1,327
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
20% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	910	1,036	1,138
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	125	300
	Solar	115	385	615	615	821	1,233	1,383	1,837
	Battery Storage	-	50	177	177	486	968	1,145	1,359
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-3: E3 EPE Report Model Results August

Scenario	Resource Type	Installed Capacity (MW) 2021	2024	2025	2027	2031	2035	2040	2045
40% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	909	973	1,022
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	239	300
	Solar	115	385	615	615	821	1,234	1,563	2,248
	Battery Storage	-	50	177	177	486	969	1,184	1,746
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
60% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	849	892	897
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	128	128	128	128	301	302
	Solar	115	385	599	599	816	1,309	1,965	2,744
	Battery Storage	-	50	177	177	481	1,044	1,347	2,145
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	778	778	778
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	217	217	217	217	552	585
	Solar	115	385	538	538	793	1,555	2,257	3,007
	Battery Storage	-	50	176	177	458	1,097	1,645	2,461
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
90% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	726	726	726
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	224	224	224	224	801	828
	Solar	115	385	535	535	901	1,679	2,300	3,049
	Battery Storage	-	50	176	177	452	1,284	1,777	2,595
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	-	-
	Gas - Combustion Turbine	503	731	731	731	668	688	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	282	282	282	282	682	696
	Solar	115	385	512	512	925	1,801	2,403	3,178
	Battery Storage	-	50	176	177	445	1,385	1,955	2,797
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	954	954
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	688	668	668
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	120	120	282	282	1,216	1,605
	Solar	115	385	606	606	925	1,801	4,851	5,217
	Battery Storage	-	50	177	177	445	1,385	6,191	7,470
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	701
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	Resource Type	2021	2024	2025	2027	2031	2035	2040	2045
High DG	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	860	1,026	1,228
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	96	96	96	96	96	203
	Solar	115	385	511	511	684	1,010	1,107	1,018
	Battery Storage	-	50	176	176	479	1,041	1,166	1,263
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	42	169	210	293	455	614	809	1,032
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High DSM	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	778	942	1,058
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	128
	Solar	115	385	519	519	638	1,149	1,212	1,386
	Battery Storage	-	50	184	184	406	1,001	1,091	1,213
	Imports	-	-	-	-	-	-	-	-
	Demand Response	49	66	71	82	100	101	103	103
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Load	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	724	896	1,019
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	141
	Solar	115	385	521	521	628	1,185	1,261	1,477
	Battery Storage	-	50	186	186	355	1,019	1,121	1,262
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Load	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	1,043	1,247	1,411
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	119	119	119	119	119	260
	Solar	115	385	662	662	1,040	1,304	1,377	1,643
	Battery Storage	-	50	235	327	708	1,042	1,142	1,292
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No Lifetime Extensions	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	234	234	144	144	-	-	-
	Gas - Combined Cycle	493	493	493	266	266	266	266	266
	Gas - Combustion Turbine	503	731	731	829	766	869	1,058	1,216
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	109	197
	Solar	115	385	767	767	1,027	1,229	1,302	1,561
	Battery Storage	-	50	183	432	756	1,027	1,128	1,277
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No New Gas	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	668	668	668
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	120	120	120	120	120	132
	Solar	115	385	606	606	818	1,876	2,580	3,422
	Battery Storage	-	50	177	177	483	1,585	2,342	3,200
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Low Carbon Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	840	1,027	1,164
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	163	163	163	163	163	269
	Solar	115	385	573	573	805	1,309	1,383	1,738
	Battery Storage	-	50	176	176	470	1,044	1,145	1,314
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Mid Carbon Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	824	1,006	1,145
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	238	238	238	238	238	300
	Solar	115	385	633	633	791	1,310	1,400	1,808
	Battery Storage	-	50	176	176	456	1,045	1,149	1,334
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Carbon Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	817	944	944
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	300	300	300	300	300	301
	Solar	115	385	857	857	886	1,310	1,666	2,536
	Battery Storage	-	50	176	176	445	1,045	1,206	2,000
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Installed Capacity (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Gas Price	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	848	1,036	1,170
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	128	128	128	128	128	264
	Solar	115	385	599	599	816	1,309	1,383	1,710
	Battery Storage	-	50	177	177	481	1,044	1,145	1,309
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Renewable and Storage Costs	Nuclear (Palo Verde)	622	622	622	622	622	622	622	622
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	426	307	307	307	234	-	-	-
	Gas - Combined Cycle	493	493	493	493	493	266	266	266
	Gas - Combustion Turbine	503	731	731	731	668	847	1,034	1,146
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	160	160	160	160	160	300
	Solar	115	385	525	525	806	1,277	1,351	1,805
	Battery Storage	-	50	190	190	471	1,037	1,138	1,335
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
Least-Cost (Reference Case)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	430	619	776
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	102	102	102	102	102	197
	Solar	-	270	506	506	708	1,190	1,291	1,823
	Battery Storage	-	50	177	177	488	1,029	1,129	1,327
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Least-Cost Case + REA Resources	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	369	502	611
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	203	203	203	203	232	300
	Solar	-	270	429	429	680	1,369	1,675	2,299
	Battery Storage	-	50	176	177	460	1,067	1,246	1,732
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Separate System Planning	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	315	315	424
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	49	49	49	49	49	161
	Solar	-	270	524	524	744	1,656	2,432	2,974
	Battery Storage	-	50	280	304	591	1,514	2,344	2,724
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-3: E3 EPE Report Model Results August

		Cumulative Capacity Additions (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	315	315	424
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	60	60	60	60	107	218
	Solar	-	270	523	523	790	1,267	1,706	2,293
	Battery Storage	-	50	278	303	570	1,057	1,496	1,847
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	123	206	212
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% Clean by 2035	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	470	582	709
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	185	289
	Solar	-	270	500	500	706	1,188	1,365	2,061
	Battery Storage	-	50	177	177	486	968	1,145	1,377
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
20% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	470	596	698
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	125	300
	Solar	-	270	500	500	706	1,188	1,365	2,099
	Battery Storage	-	50	177	177	486	968	1,145	1,409
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
40% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	469	533	582
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	239	300
	Solar	-	270	500	500	706	1,189	1,545	2,510
	Battery Storage	-	50	177	177	486	969	1,184	1,796
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
60% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	409	452	457
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	128	128	128	128	301	302
	Solar	-	270	484	484	701	1,264	1,947	3,006
	Battery Storage	-	50	177	177	481	1,044	1,347	2,195
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	338	338	338
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	217	217	217	217	552	585
	Solar	-	270	423	423	678	1,510	2,239	3,269
	Battery Storage	-	50	176	177	458	1,097	1,645	2,511
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-3: E3 EPE Report Model Results August

		Cumulative Capacity Additions (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
90% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	286	286	286
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	224	224	224	224	801	828
	Solar	-	270	420	420	786	1,634	2,282	3,311
	Battery Storage	-	50	176	177	452	1,284	1,777	2,645
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	248	-	-
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	282	282	282	282	682	696
	Solar	-	270	397	397	810	1,756	2,385	3,440
	Battery Storage	-	50	176	177	445	1,385	1,955	2,847
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	248	248
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	248	228	228
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	120	120	282	282	1,216	1,605
	Solar	-	270	491	491	810	1,756	4,833	5,479
	Battery Storage	-	50	177	177	445	1,385	6,191	7,520
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	701
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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Scenario	Resource Type	Cumulative Capacity Additions (MW)							
		2021	2024	2025	2027	2031	2035	2040	2045
High DG	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	420	586	788
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	96	96	96	96	96	203
	Solar	-	270	396	396	569	965	1,089	1,280
	Battery Storage	-	50	176	176	479	1,041	1,166	1,313
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	42	169	210	293	455	614	809	1,032
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High DSM	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	338	502	618
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	128
	Solar	-	270	404	404	523	1,104	1,194	1,648
	Battery Storage	-	50	184	184	406	1,001	1,091	1,263
	Imports	-	-	-	-	-	-	-	-
	Demand Response	49	66	71	82	100	101	103	103
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Load	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	284	456	579
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	141
	Solar	-	270	406	406	513	1,140	1,243	1,739
	Battery Storage	-	50	186	186	355	1,019	1,121	1,312
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Additions (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Load	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	603	807	971
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	119	119	119	119	119	260
	Solar	-	270	547	547	925	1,259	1,359	1,905
	Battery Storage	-	50	235	327	708	1,042	1,142	1,342
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No Lifetime Extensions	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	326	326	429	618	776
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	109	109	109	109	109	197
	Solar	-	270	652	652	912	1,184	1,284	1,823
	Battery Storage	-	50	183	432	756	1,027	1,128	1,327
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No New Gas	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	228	228	228
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	120	120	120	120	120	132
	Solar	-	270	491	491	703	1,831	2,562	3,684
	Battery Storage	-	50	177	177	483	1,585	2,342	3,250
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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Scenario	Resource Type	Cumulative Capacity Additions (MW) 2021	2024	2025	2027	2031	2035	2040	2045
Low Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	400	587	724
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	163	163	163	163	163	269
	Solar	-	270	458	458	690	1,264	1,365	2,000
	Battery Storage	-	50	176	176	470	1,044	1,145	1,364
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Mid Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	384	566	705
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	238	238	238	238	238	300
	Solar	-	270	518	518	676	1,265	1,382	2,070
	Battery Storage	-	50	176	176	456	1,045	1,149	1,384
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	377	504	504
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	300	300	300	300	300	301
	Solar	-	270	742	742	771	1,265	1,648	2,798
	Battery Storage	-	50	176	176	445	1,045	1,206	2,050
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Additions (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Gas Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	408	596	730
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	128	128	128	128	128	264
	Solar	-	270	484	484	701	1,264	1,365	1,972
	Battery Storage	-	50	177	177	481	1,044	1,145	1,359
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Renewable and Storage Costs	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	-	-	-	-	-	-	-
	Gas - Combined Cycle	-	-	-	-	-	-	-	-
	Gas - Combustion Turbine	-	228	228	228	228	407	594	706
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	160	160	160	160	160	300
	Solar	-	270	410	410	691	1,232	1,333	2,067
	Battery Storage	-	50	190	190	471	1,037	1,138	1,385
	Imports	-	-	-	-	-	-	-	-
	Demand Response	46	53	56	61	71	81	93	93
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	18	65	80	108	166	221	289	368
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-3: E3 EPE Report Model Results August

		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Least-Cost Case + REA Resources	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Separate System Planning	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Separate System Planning (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% Clean by 2035	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
20% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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Scenario	Resource Type	Cumulative Capacity Retirements (MW) 2021	2024	2025	2027	2031	2035	2040	2045
40% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
60% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
80% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
90% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040 (w/ H2)	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
100% CO2 Red. by 2040	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High DG	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High DSM	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Load	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Load	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No Lifetime Extensions	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(192)	(192)	(282)	(282)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	(227)	(227)	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
No New Gas	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

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		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Low Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Mid Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
High Carbon Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-3: E3 EPE Report Model Results August

		Cumulative Capacity Retirements (MW)							
Scenario	**Resource Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
High Gas Price	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-
Low Renewable and Storage Costs	Nuclear (Palo Verde)	-	-	-	-	-	-	-	-
	Nuclear (SMR)	-	-	-	-	-	-	-	-
	Gas - Steam Turbine	-	(119)	(119)	(119)	(192)	(426)	(426)	(426)
	Gas - Combined Cycle	-	-	-	-	-	(227)	(227)	(227)
	Gas - Combustion Turbine	-	-	-	-	(63)	(63)	(63)	(63)
	Biomass	-	-	-	-	-	-	-	-
	Geothermal	-	-	-	-	-	-	-	-
	Wind	-	-	-	-	-	-	-	-
	Solar	-	-	-	-	-	(70)	(97)	(377)
	Battery Storage	-	-	-	-	-	-	-	(50)
	Imports	-	-	-	-	-	-	-	-
	Demand Response	-	-	-	-	-	-	-	-
	Hydrogen	-	-	-	-	-	-	-	-
	BTM Solar	-	-	-	-	-	-	-	-
	Load	-	-	-	-	-	-	-	-
	Excess Generation	-	-	-	-	-	-	-	-

Attachment D-3: E3 EPE Report Model Results August

Annual Revenue Requirement ($MM)								
Scenario	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	$ 246	$ 233	$ 245	$ 262	$ 284	$ 340	$ 402	$ 498
Least-Cost Case + REA Resources	$ 246	$ 233	$ 247	$ 262	$ 285	$ 343	$ 406	$ 506
Separate System Planning	$ 247	$ 233	$ 250	$ 268	$ 293	$ 369	$ 473	$ 571
Separate System Planning (w/ H2)	$ 247	$ 233	$ 251	$ 268	$ 293	$ 348	$ 438	$ 536
80% Clean by 2035	$ 246	$ 233	$ 245	$ 262	$ 284	$ 342	$ 402	$ 498
20% CO2 Red. by 2040	$ 246	$ 233	$ 245	$ 262	$ 284	$ 342	$ 402	$ 499
40% CO2 Red. by 2040	$ 246	$ 233	$ 245	$ 262	$ 284	$ 342	$ 405	$ 512
60% CO2 Red. by 2040	$ 246	$ 233	$ 246	$ 262	$ 284	$ 341	$ 419	$ 531
80% CO2 Red. by 2040	$ 246	$ 233	$ 247	$ 262	$ 284	$ 347	$ 463	$ 577
90% CO2 Red. by 2040	$ 246	$ 233	$ 247	$ 263	$ 287	$ 357	$ 500	$ 615
100% CO2 Red. by 2040 (w/ H2)	$ 246	$ 233	$ 249	$ 264	$ 289	$ 367	$ 551	$ 663
100% CO2 Red. by 2040	$ 246	$ 233	$ 245	$ 262	$ 289	$ 367	$ 1,113	$ 1,282
High DG	$ 245	$ 231	$ 241	$ 256	$ 277	$ 325	$ 382	$ 470
High DSM	$ 245	$ 230	$ 239	$ 254	$ 271	$ 313	$ 367	$ 450
Low Load	$ 239	$ 227	$ 236	$ 252	$ 269	$ 312	$ 371	$ 460
High Load	$ 253	$ 239	$ 255	$ 276	$ 307	$ 374	$ 441	$ 540
No Lifetime Extensions	$ 246	$ 228	$ 243	$ 266	$ 298	$ 344	$ 406	$ 502
No New Gas	$ 246	$ 233	$ 245	$ 262	$ 284	$ 367	$ 453	$ 570
Low Carbon Price	$ 291	$ 277	$ 284	$ 301	$ 323	$ 379	$ 444	$ 543
Mid Carbon Price	$ 358	$ 341	$ 341	$ 358	$ 381	$ 436	$ 505	$ 611
High Carbon Price	$ 469	$ 449	$ 432	$ 451	$ 475	$ 529	$ 603	$ 718
High Gas Price	$ 257	$ 242	$ 251	$ 268	$ 291	$ 347	$ 412	$ 509
Low Renewable and Storage Costs	$ 246	$ 233	$ 240	$ 256	$ 274	$ 321	$ 379	$ 463

Attachment D-3: E3 EPE Report Model Results August

		Clean Energy (% of Load)							
Scenario	**Clean Energy Type**	**2021**	**2024**	**2025**	**2027**	**2031**	**2035**	**2040**	**2045**
Least-Cost (Reference Case)	Renewable %	4%	12%	21%	21%	27%	34%	36%	39%
	Zero Carbon %	62%	68%	77%	75%	77%	81%	77%	75%
Least-Cost Case + REA Resources	Renewable %	4%	12%	24%	24%	30%	39%	43%	49%
	Zero Carbon %	62%	68%	79%	78%	80%	85%	84%	84%
Separate System Planning	Renewable %	4%	12%	20%	21%	26%	38%	42%	46%
	Zero Carbon %	62%	68%	76%	75%	76%	84%	83%	82%
Separate System Planning (w/ H2)	Renewable %	4%	12%	21%	21%	27%	34%	41%	45%
	Zero Carbon %	62%	68%	76%	75%	77%	81%	82%	81%
80% Clean by 2035	Renewable %	4%	12%	21%	22%	27%	34%	39%	45%
	Zero Carbon %	62%	68%	77%	76%	77%	81%	80%	80%
20% CO2 Red. by 2040	Renewable %	4%	12%	21%	22%	27%	34%	37%	46%
	Zero Carbon %	62%	68%	77%	76%	77%	81%	78%	81%
40% CO2 Red. by 2040	Renewable %	4%	12%	21%	22%	27%	34%	43%	51%
	Zero Carbon %	62%	68%	77%	76%	77%	81%	84%	86%
60% CO2 Red. by 2040	Renewable %	4%	12%	22%	22%	27%	36%	48%	56%
	Zero Carbon %	62%	68%	77%	76%	78%	83%	89%	91%
80% CO2 Red. by 2040	Renewable %	4%	12%	24%	24%	30%	41%	54%	60%
	Zero Carbon %	62%	68%	79%	78%	81%	87%	94%	95%
90% CO2 Red. by 2040	Renewable %	4%	12%	24%	24%	32%	43%	56%	62%
	Zero Carbon %	62%	68%	79%	78%	82%	89%	97%	98%
100% CO2 Red. by 2040 (w/ H2)	Renewable %	4%	12%	25%	26%	34%	45%	56%	62%
	Zero Carbon %	62%	68%	81%	79%	84%	92%	100%	100%
100% CO2 Red. by 2040	Renewable %	4%	12%	22%	22%	34%	45%	60%	65%
	Zero Carbon %	62%	68%	77%	76%	84%	92%	100%	100%
High DG	Renewable %	4%	13%	21%	22%	27%	35%	37%	39%
	Zero Carbon %	63%	70%	76%	75%	77%	82%	78%	74%
High DSM	Renewable %	4%	12%	16%	16%	20%	31%	32%	37%
	Zero Carbon %	63%	69%	73%	72%	73%	80%	76%	75%
Low Load	Renewable %	4%	12%	16%	16%	19%	31%	33%	38%
	Zero Carbon %	64%	70%	73%	72%	72%	79%	75%	75%
High Load	Renewable %	4%	12%	23%	24%	31%	36%	36%	41%
	Zero Carbon %	61%	66%	77%	76%	79%	80%	76%	75%
No Lifetime Extensions	Renewable %	4%	12%	23%	26%	31%	35%	36%	39%
	Zero Carbon %	62%	68%	79%	80%	81%	81%	77%	75%
No New Gas	Renewable %	4%	12%	22%	22%	27%	42%	50%	57%
	Zero Carbon %	62%	68%	77%	76%	77%	88%	90%	92%
Low Carbon Price	Renewable %	4%	12%	23%	23%	28%	37%	38%	43%
	Zero Carbon %	62%	68%	78%	77%	79%	83%	79%	79%
Mid Carbon Price	Renewable %	4%	12%	26%	26%	31%	39%	41%	45%
	Zero Carbon %	62%	68%	81%	80%	81%	86%	82%	81%
High Carbon Price	Renewable %	4%	12%	30%	31%	34%	41%	45%	54%
	Zero Carbon %	62%	68%	86%	85%	84%	87%	86%	89%
High Gas Price	Renewable %	4%	12%	22%	22%	27%	36%	37%	43%
	Zero Carbon %	62%	68%	77%	76%	78%	82%	78%	78%
Low Renewable and Storage Costs	Renewable %	4%	12%	22%	22%	28%	36%	38%	44%
	Zero Carbon %	62%	68%	77%	76%	78%	83%	79%	80%

Attachment E-1: Proof of Notice

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

RULE 17.7.3 NMAC FILING

EL PASO ELECTRIC COMPANY
NOTICE OF 2021 INTEGRATED RESOURCE PLAN

2020-2021 PLANNING PROCESS AND
PUBLIC ADVISORY PROCESS MEETINGS

DECLARATION OF CURTIS HUTCHESON OF NOTICE TO CUSTOMERS

I ***Curtis Hutcheson***, pursuant to Rule 1-011 NMRA, state as follows:

1. I affirm in writing under penalty of perjury under the laws of the State of New Mexico that the following statements are true and correct.

2. I am over 18 years of age and have personal knowledge of the facts stated herein. I am employed as *Supervisor-Regulatory Case Management*. My business address is 100 N. Stanton Street, El Paso, Texas 79901.

3. My responsibilities include the oversight and preparation of rate and regulatory filings and compliance with the various regulatory requirements of the jurisdictions in which EPE operates.

4. Pursuant to Rule 17.7.3.9H(1) NMAC, the New Mexico Public Regulation Commission ("Commission") requires EPE to provide notice of EPE's 2021 Integrated Resource Plan's 2020-2021 Planning Process and Public Advisory Process Meetings in the utility's billing inserts.

5. EPE directly mailed the required notice to all existing New Mexico customers in a bill insert between June 4, 2020 and July 2, 2020. A copy of the bill insert is attached as Exhibit A to

this Affirmation.

6. EPE also published the notice in the Las Cruces Sun News on May 31, 2020. The affidavit and tear sheet are attached as Exhibit B to this Affirmation.

7. EPE provided notice on June 4, 2020, 30 days prior to the first scheduled meeting on July 10, 2020, to the commission, interveners in its most recent general rate case, and participants in its most recent renewable energy, energy efficiency and IRP proceedings. The email of the notice and certificate of service is attached as Exhibit C to this Affirmation.

I submit this Declaration, based upon my personal knowledge and upon information and belief, in support of EPE's ***2021 Integrated Resource Plan's 2020-2021 Planning Process and Public Advisory Process Meetings.***

FURTHER, DECLARANT SAYETH NAUGHT.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on May 13, 2021.

__/s/ Curtis Hutcheson_____

CURTIS HUTCHESON

Attachment E-1: Proof of Notice

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

RULE 17.7.3 NMAC FILING

EL PASO ELECTRIC COMPANY

NOTICE OF 2021 INTEGRATED RESOURCE PLAN

2020-2021 PUBLIC ADVISORY PROCESS MEETINGS

Notice is hereby given that:

El Paso Electric Company ("EPE") invites members of the public to participate in the Integrated Resource Plan (“IRP”) public advisory process through a series of public meetings. With public participation, EPE will develop its IRP pursuant to the New Mexico Efficient Use of Energy Act and the New Mexico Public Regulation Commission's ("Commission") IRP Rule, 17.7.3 NMAC. EPE's IRP is developed to identify cost-effective demand-side and supply-side electricity resources to serve EPE's customers over the next 20-year planning period.

The IRP will be submitted to the Commission no later than July 2021. Public participation is an important component of the development and implementation of EPE's integrated resource planning in New Mexico. EPE encourages interested members of the public to attend these public meetings to provide public input and commentary, whether as a residential or business customer, or as a representative of a trade, non-profit, neighborhood, shareholder, civic or other group.

Given the currently effective limitations on public gatherings in New Mexico and Texas, the first scheduled meeting will be held electronically and by phone conference on July 10, 2020, at 2:00 p.m. MDT. The IRP process will be explained, and additional meeting dates and locations will be set at that time. Prior to each meeting, the presentation for that meeting will be posted on EPE's website, www.epeletric.com. If you are interested in attending the meeting or otherwise participating in the process, please contact EPE by emailing NMIRP@epelectric.com or calling at (915) 543- 4354.

Attachment E-1: Proof of Notice

Las Cruces Sun News
PART OF THE USA TODAY NETWORK

Affidavit of Publication

Ad # 0004190968

This is not an invoice

EL PASO ELECTRIC
POBOX 982

EL PASO, TX 79960

I, a legal clerk of the **Las Cruces Sun News**, a newspaper published daily at the county of Dona Ana, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

05/31/2020

Despondent further states this newspaper is duly qualified to publish legal notice or advertisements within the meaning of Sec. Chapter 167, Laws of 1937

Kathleen Allen
Legal Clerk

Subscribed and sworn before me this June 4, 2020:

Nancy Heyrman
State of WI, County of Brown
NOTARY PUBLIC

5·15·23
My commission expires

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION
RULE 17.7.3 NMAC FILING
EL PASO ELECTRIC COMPANY
NOTICE OF 2021 INTEGRATED RESOURCE PLAN
2020-2021 PUBLIC ADVISORY PROCESS MEETINGS

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The IRP will be submitted to the Commission no later than July 2021. Public participation is an important component of the development and implementation of EPE's integrated resource planning in New Mexico. EPE encourages interested members of the public to attend these public meetings to provide public input and commentary, whether as a residential or business customer, or as a representative of a trade, non-profit, neighborhood, shareholder, civic or other group.
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#4190968, Sun-News, May 31, 2020

NANCY HEYRMAN
Notary Public
State of Wisconsin

Ad # 0004190968
PO #: 2021 IRP Notice
# of Affidavits: 1

This is not an invoice

Classifieds

Attachment E-1: Proof of Notice

To advertise, visit:
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Public Notices/Legals Email: legals@lcsun-news.com

General

FARM MANAGER

RMB Ventures, LLC is accepting resumes for the position of Farm Manager to direct and coordinate the daily farm's production activities such as planning, tilling, planting, fertilizing, cultivating, spraying, or harvesting among other duties. The work will be performed in Las Cruces, Dona Ana County and Deming, Luna County, New Mexico. Associate of Pre-Business and 24 months of experience as Farm Manager are required. Interested candidates should submit resume to: Rod Tharp, President of RMB Ventures to rodtharpfarms@gmail.com.

Homes

DOÑA ANA COUNTY JOB VACANCIES

HVAC TECHNICIAN II

ACO & CODES-LABORER

ANIMAL CONTROL OFFICER

DASO CADET-UNCERTIFIED

ROADS-EQUIPMENT OPERATOR

ELECTIONS SPECIALIST-TEMPORARY

ROADS-HEAVY EQUIPMENT OPERATOR

DETENTION CENTER OFFICER TRAINEE

DOCUMENT TECHNICIAN-DC DISPOSITIONS

ENVIRONMENTAL CODES ENFORCEMENT OFFICER

CAMINO REAL REGIONAL UTILITY AUTHORITY JOB VACANCIES

WATER/WASTEWATER OPERATOR III

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Legal Notices

Invitation to Bid

A notice is hereby given that Dona Ana County (DAC) will receive Sealed Bids at the Office of the Dona Ana County Purchasing Department, Room 2-147, 845 N. Motel Blvd, Las Cruces, NM 88007, prior to the appointed hour (local time) for the public openings listed below, at which time the bids will be opened and read aloud in Room 2 132. Specifications for said bid are available at 845 N Motel Blvd, Las Cruces, NM Room 2-130. Any bid received after the closing time will be returned unopened.
DAC 20-0048 Invitation to Bid for Pest Control Services for the Fire Administration Department and other Departments as needed will be accepted until June 30, 2020 @ 2:00 PM (local time).
Request for Proposals/Bids are available at: https://donaanacounty.org/bids
Donald E Bullard
Dona Ana County
Chief Procurement Officer
(575) 525-5927
Pub#4215768
Run: May 31, 2020

AGENDA ITEM for the DONA ANA COUNTY BOARD OF COUNTY COMMISSIONERS

The Doña Ana County Board of County Commissioners acting as the Board of Appeals will consider the following Agenda Item at its regular meeting on Tuesday, June 23, 2020 at 9:00 a.m., in the County Commission Chambers of the Doña Ana County Government Center, 845 N. Motel Blvd, Las Cruces, NM.
Case# AP20-002: The Appellant, Jeremy Green, is appealing a February 27, 2020, Planning and Zoning Commission (P&Z) decision approving Case #Z19-006, for a Zone Change from D1-L (Low Density Residential - Limited) zone to a C1 (Neighborhood Commercial) zoning district for a proposed 9,100 sq. ft. Dollar General store on a property located on the east side of Doña Ana Rd, south of San Ysidro Rd. adjacent to and north of the Elwood Lateral. The parcel was recorded in the Office of the Doña Ana County Clerk on April 16, 1986 with Instrument #9607059 and can be further identified as Parcel Acct. # R0304971. The Appellant is requesting that the Board of County Commissioners (BOCC) reverse the decision of the P&Z based on the mistakes, omissions, and assumptions of the P&Z and County staff.
#4215574,Sun-News,
May 31, 2020

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Legal Notices

4B-501. Notice to creditors by publication and notice to creditors by written notice (mailing or other delivery).
(For use with Rules 1B-304, 1B-306, and 1B-401 NMRA)

STATE OF NEW MEXICO
IN THE PROBATE COURT
DONA ANA COUNTY

No. 20-0074

IN THE MATTER OF THE ESTATE OF Juliet S Williams, DECEASED

NOTICE TO CREDITORS

NOTICE IS HEREBY GIVEN that the undersigned has been appointed personal representative of the estate of the decedent. All persons having claims against the estate of the decedent are required to present their claims within four (4) months after the date of the first publication of any published notice to creditors or sixty (60) days after the date of mailing or other delivery of this notice, whichever is later, or the claims will be forever barred. Claims must be presented to the undersigned personal representative of the address below, or filed with the Probate Court of Dona Ana, 845 N. Motel Blvd. 1-201, Las Cruces, NM 88007.
Dated May, 2020
/s/ Edwin James Williams Jr
signature of representative

Edwin James Williams Jr
Printed Name

17093 White Pine Rd
Street address

Beaver dam, VA 23015
City, state, and ZIP code

#4213196, Sun-News, May 31 and Jun. 7, 14, 2020

AGENDA ITEM for the DOÑA ANA COUNTY PLANNING AND ZONING COMMISSION

The Doña Ana County Planning and Zoning Commission will consider the following Agenda Item at its regular meeting on **Thursday, June 25, 2020 at 9:00 a.m.**, in the County Commission Chambers of the Doña Ana County Government Center, 845 N. Motel Blvd, Las Cruces, NM.
NEW BUSINESS
DISCUSSION AND ACTION ITEMS
CASE # SU20-006: Submitted by Fred G. Mobley, on behalf of Family and Youth Inc., a request to expand the existing Raices del Saber Xinachtli Community School. The P&Z approved the charter school under Case # SU19-007. The expansion will include four (4) new portable buildings and total occupancy of 220 persons (205 Elementary Students and 15 staff members). The property address is 2215 N. Valley Drive and is located within Township 23 South, Range 1 East Section 11. It is described as being within USRS TRACTS 728-D & 9B-23 Re-plat No 1, Book 24, pages 11-12 as recorded in the Office of the Doña Ana County Clerk on August 2, 1996 under Instrument # 9617625. The subject parcel can be further identified by Parcel ID # R0330056.
#4215538,Sun-News,May 31, 2020

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Legal Notices

LRGPWWA Informal Request for Proposals #FY2020-03

The Lower Rio Grande Public Water Works Authority (LRGPWWA) is seeking Letters of Interest from qualified professional engineering, environmental and surveying firms for professional services for small water and/or wastewater projects less than $60,000 during FY2021through FY2024 (7/1/2020 to 6/30/24) on as "as needed" basis. Services may include and are not limited to engineering design, development or update of environmental or planning documents, construction administration and/or observation, surveying, mapping, permit acquisition, CAD drawings, GIS work, etc. Firms interested in provided these services shall provide a Letter of Interest, as specified below, no later than 3:00 p.m. on June 29, 2020 to:

Lower Rio Grande PWWA
Attention: Karen Nichols, Projects Manager
PO Box 2646, Anthony NM 88021
karen.nichols@LRGauthority.org (submission by email or file-share link is strongly preferred)

Letters of Interest shall contain a brief statement of qualification regarding specialized design and technical competence; capacity and capability of performing work as required; past performance with the LRGPWWA, its founding entities or other small water & wastewater systems; proximity to and familiarity with the LRGPWWA Service Area and utility systems; any special characteristic or capabilities which might enhance the firm's qualifications or suitability; and schedule of fees for various basic engineering, planning, surveying or other services. IMPORTANT: Letters of interest which do not include a schedule of fees will be deemed non-responsive. This requirement is intended to document the staff and services offered by the firm, and does not constitute a binding price commitment. Letters of Interest shall not be bound and shall be limited to five pages not including schedule of fees. Brochures or informational literature about the firm may be enclosed if desired.

The LRGPWWA anticipates that multiple firms will be selected for small project "as needed" during FY2021 through FY2024 and reserves the right to reject any and all proposals and to waive all formalities.

Martin G. Lopez,
General Manager
Kathi Jackson,
Chief Procurement Officer

#4211939, Sun-News,
May 31, 2020

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Legal Notices

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION
RULE 17.7.3 NMAC FILING
EL PASO ELECTRIC COMPANY
NOTICE OF 2021 INTEGRATED RESOURCE PLAN
2020-2021 PUBLIC ADVISORY PROCESS MEETINGS

Notice is hereby given that:
El Paso Electric Company ("EPE") invites members of the public to participate in the Integrated Resource Plan ("IRP") public advisory process through a series of public meetings. With public participation, EPE will develop its IRP pursuant to the New Mexico Efficient Use of Energy Act and the New Mexico Public Regulation Commission's ("Commission") IRP Rule, 17.7.3 NMAC. EPE's IRP is developed to identify cost--effective demand-side and supply-side electricity resources to serve EPE's customers over the next 20-year planning period.
The IRP will be submitted to the Commission no later than July 2021. Public participation is an important component of the development and implementation of EPE's integrated resource planning in New Mexico. EPE encourages interested members of the public to attend these public meetings to provide public input and commentary, whether as a residential or business customer, or as a representative of a trade, non-profit, neighborhood, shareholder, civic or other group.
Given the currently effective limitations on public gatherings in New Mexico and Texas, the first scheduled meeting will be held electronically and by phone conference on July 10, 2020, at 2:00 p.m. MDT. The IRP process will be explained, and additional meeting dates and locations will be set at that time. Prior to each meeting, the presentation for that meeting will be posted on EPE's website, www.epeletric.com. If you are interested in attending the meeting or otherwise participating in the process, please contact EPE by emailing NMRP@epelectric.com or calling at (915) 543-4354.
#4190968, Sun-News, May 31, 2020

LEGAL ADVERTISEMENT REQUEST FOR PROPOSAL

Cooperative Educational Services (CES) is accepting proposals in CES' online eProcurement system (https://eprocurement.ces.org) until Friday, June 26, 2020, 4:00 PM local time, for:
RFP# 2021-03 - Educational Facility Evaluation, Capital Outlay Long-Range Planning & Project Management
Release date: Monday, June 1, 2020, non-Mandatory Pre--Proposal eMeeting (Electronic Meeting): Thursday, June 4, 2020 @ 10:00 AM local time. To participate in the Pre-Proposal meeting by "Go To Meeting" or on the phone and for questions regarding this RFP, please contact the CES Procurement Department at 505-344-5470, M-F, except holidays, 8:30 a.m. - 4:30 p.m. or by email at bids@ces.org
Offeror's proposals, including Financial Statements shall be submitted electronically only, through the CES online eProcurement System (https://eprocurement.ces.org).
Hard copy proposals will NOT be accepted. To register your business and submit a proposal, you must have internet access and an email account.
Cooperative Educational Services reserves the expressed right to accept or reject any or all proposals.
/s/ David Chavez,
Executive Director
#4211560, Sun-News, May 31, 2020

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NOTICE OF INTENT TO ADOPT

The City Council of The City of Las Cruces, New Mexico, Hereby Gives Notice of Its Intent to Adopt the Following Ordinance(s) at a Regular City Council Meeting to be Held on **June 15, 2020:**

(1) Council Bill No. 20-038; Ordinance No. 2930: An Ordinance Repealing and Replacing Sections 27-12-7-9, 27-12-7-9.2 and Adding a New Section 27-12-7-9.11 of Chapter 27, Traffic of the Las Cruces Municipal Code, 1997, as Amended (LCMC) Related to Utility Terrain Vehicles (UTVs) and Their Registration.
(2) Council Bill No. 20-039; Ordinance No. 2931: An Ordinance Approving a Zone Change from R-4 (Multi-Dwelling High Density – Limited Retail and Office to C-3 (Commercial High Intensity) for a Property Encompassing 5.22 + Acres Located at 2755 Idaho Avenue. Submitted by Kary Bulsterbaum, Representative. (20ZO0500043).
(3) Council Bill No. 20-040; Ordinance No. 2932: An Ordinance Approving a Zone Change from A-2 (Rural Agricultural District) and C-2 (Commercial Medium Intensity) to C-3 (Commercial High Intensity) for a Property Encompassing 7.93 + Acres Located at 3551 Bataan Memorial West. Submitted by City of Las Cruces, Property Owner. (20ZO0500045).
(4) Council Bill No. 20-041; Ordinance No. 2933: An Ordinance Approving a Zone Change from O-1 (Office, Neighborhood – Limited Retail Service) to R-4 (Multi-dwelling High Density – Limited Retail and Office) for Three Properties Located at 1512, 1518, and 1524 S Espina Street. Submitted by Jaime Gardea, Property Owner. (20ZO0500012).

Copies Are Available for Inspection During Working Hours at the Office of the City Clerk. **Witness My Hand and Seal** of the City of Las Cruces on this **the 27th day of May 2020.**

Christine Rivera, CMC

#4215213, Sun-News,
May 31, 2020

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Attachment E-1: Proof of Notice

From: Griego, Patricia

To: Burns, Nancy; Griego, Patricia; Jeffrey Wechsler; Diana Luna; Kari Olson; Lorraine Talley; John F. McIntyre; Schichtl, James; Hutcheson, Marvin C; Novela, Mariah M; Parsons, Judith M; Pleasant, Linda G; Perea, Araceli G; "astevens.law@gmail.com"; "jvega-brown@las-cruces.org"; "joprovencio@las-cruces.org"; "llarocque@las-cruces.org"; "marcyd@las-cruces.org"; davila@las-cruces.org; "JAG@las-cruces.org"; "hconnelly@las-cruces.org"; "ddollahon@las-cruces.org"; "tomf@donaanacounty.org"; rockybacchus@gmail.com; ecomaxac@lifeisgood2.com; "lellis@nmsu.edu"; "ghaubold@ad.nmsu.edu"; "jdrake@modrall.com"; "nwinter@stelznerlaw.com"; kherrmann@stelznerlaw.com; rgallegos@stelznerlaw.com; "Noble.ccae@gmail.com"; stephanie@dzur-Law.com; Lundin, Robert; gelliot@nmag.gov; Cholla Khoury; "lawoffice@jasonmarks.com"; "Jsmith.watsonlawlc@gmail.com"; mayortrujillo@cityofanthonynm.org; "mlsoules@hotmail.com"; "bthroneatty@newmexico.com"; Goodin, Nelson; fredk@donaanacounty.org; "Rick@votesolar.org"; tasolomon6@gmail.com; "Dahlharris@hotmail.com"; "Jdittmer@utilitech.net"; "Jaherz@sawvel.com"; akharriger@sawvel.com; Borman, Bradford, PRC; Reynolds, John, PRC; Chavez, Milo, PRC; Sidler, Jack, PRC; john.bogatko@state.nm.us; marc.tupler@state.nm.us; gilbertt.fuentes@state.nm.us; Sisneros, Anthony R., PRC; Leyba-Tercero, Elisha, PRC; Fisk, Russell, PRC; Amer, Judith, PRC; Smith, Michael C, PRC; Martinez-Rael, Peggy, PRC; elizabeth.ramirez@state.nm.us; carolyn.glick@state.nm.us; Hurst, Elizabeth, PRC; christopher.ryan@state.nm.us; philipbsimpson@comcast.net; "Kyle.j.smith124.civ@mail.mil"; robert.a.ganton.civ@mail.mil; hgeller@swenergy.org; jbrant@swenergy.org; "ctcolumbia@aol.com"; l.tougas@cleanenergyregresearch.com; dgegax@nmsu.edu; "Ramona.blaber@sierraclub.org"; "sricdon@earthlink.net"; "smichel@westernresources.org"; Beadles, Cydney, PRC; pat.oconnell@westernresources.org; april.elliott@westernresources.org; "dneid@cox.net"; schaefno@gmail.com; david@vw77.com; bslocum@dwmrlaw.com; jmcnally@dwmrlaw.com; mbarker@dwmrlaw.com; mzidovsky@montand.com

Cc: EPE_Reg_Mgmt

Subject: Rule 17.7.3 NMAC Filing EPE"s Notice of 2020-2021 Public Advisory Process Meetings for 2021 IRP & COS

Date: Thursday, June 4, 2020 10:50:41 AM

Attachments: 2021 IRP Notice.pdf
COS Notice of IRP Process.pdf

Good morning. Attached is El Paso Electric Company's Notice of its 2020-2021 Public Advisory Process Meetings for the 2021 Integrated Resource Plan and Certificate of Service, that was filed by email with NMPRC Records today.

Patricia "Trish" Griego| El Paso Electric Company
Legal Assistant
300 Galisteo St. Suite 206
Santa Fe, New Mexico 87501
T: (505) 982-4713 | C: (505) 470-4048
Patricia.griego@epelectric.com

Attachment E-1: Proof of Notice

BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION

CERTIFICATE OF SERVICE

RULE 17.7.3 NMAC: NOTICE OF IRP PROCESS

I HEREBY CERTIFY that the foregoing copy of **El Paso Electric Company's ("EPE") Proof of Publication and Declaration of Curtis Hutcheson of Notice to Customers,** was served on the New Mexico Public Regulation Commission, Intervenors in EPE's most recent rate case (NMPRC Case No.20-00104-UT), renewable energy procurement plan case (NMPRC Case No.19-00099-UT), energy efficiency case (NMPRC Case No.18-00116-UT) and IRP Proceedings (Case No. 18-00293-UT) on May 13, 2021 as indicated below to each of the following:

Via Email to:

Nancy B. Burns	nancy.burns@epelectric.com;
Patricia Griego	patricia.griego@epelectric.com;
Jeffrey Wechsler	jwechsler@montand.com;
Diana Luna	dluna@montand.com;
Kari Olson	kolson@montand.com;
Teresa Pacheco	tpacheco@montand.com;
James Schichtl	james.schichtl@epelectric.com;
Curtis Hutcheson	curtis.hutcheson@epelectric.com;
Judith Parsons	judith.parsons@epelectric.com;
Linda Pleasant	linda.pleasant@epelectric.com;
Araceli Perea	Araceli.pera@epelectric.com;
Anastasia Stevens	astevens.law@gmail.com;
Jennifer Vega-Brown	jvega-brown@las-cruces.org;
Tom Figart	tomf@donaanacounty.org;
Rocky Bacchus	rockybacchus@gmail.com;
Allen Downs	ecomaxac@lifeisgood2.com;
Joan Drake	jdrake@modrall.com;
Nann Winter	nwinter@stelznerlaw.com;
Keith Herrmann	kherrmann@stelznerlaw.com;
Stephanie Dzur	stephanie@dzur-law.com;
Gideon Elliott	gelliot@nmag.gov;
Cholla Khoury	ckhoury@nmag.gov;

Attachment E-1: Proof of Notice

Jason Marks	lawoffice@jasonmarks.com;
Mayor Trujillo	mayortrujillo@cityofanthonynm.org;
Merrie Lee Soules	mlsoules@hotmail.com;
Bradford Borman	bradford.borman@state.nm.us;
John Reynolds	john.reynolds@state.nm.us;
Philip B. Simpson	philipbsimpson@comcast.net;
Kyle Smith	kyle.j.smith124.civ@mail.mil;
Steve Michel	smichel@westernresources.org;
Cydney Beadles	cydney.beadles@westernresources.org;
April Elliott	april.elliott@westernresources.org;

DATED this 13th day of May 2021.

/s/ Trish Griego
Trish Griego
Legal Assistant

Attachment E-2: Original and Final Meeting Schedule

2020-21 Original Schedule

Meeting	*Date*	*Day*
First Meeting - Present current IRP, forecast, L&R	**7/10/2020**	**Fri**
Second Meeting - Request resources	**8/14/2020**	**Fri**
Third Meeting - Present Expansion Modeling (EIM, SPP, etc.)	**10/7/2020**	**Wed**
Fourth Meeting - Present preliminary final resource protfolio (draft IRP)	**5/14/2021**	**Fri**
Fifth Meeting - Present final resource portfolio (final IRP)	**6/15/2021**	**Tue**
Sixth Meeting - Receive feedback on final IRP	**7/1/2021**	**Thu**
File at NMPRC	**7/15/2021**	**Thu**

2020-21 Final Schedule

Meeting	*Date*	*Day*
First Meeting - Present current IRP, forecast, L&R	**7/10/2020**	**Fri**
Second Meeting - Request resources	**8/14/2020**	**Fri**
Third Meeting - Present Expansion Modeling (EIM, SPP, etc.)	**10/7/2020**	**Wed**
Fourth Meeting - Public Participants Presentation	**11/9/2020**	**Mon**
Fifth Meeting - Present Modeling Update	**2/5/2021**	**Fri**
Sixth Meeting - Present Modeling Status,	**3/19/2021**	**Fri**
Seventh Meeting - Present Load Forecast and Peliminary Modeling Results	**6/1/2021**	**Tue**
Eighth Meeting - Presented Jurisdictional Analysis and Comments Draft IRP	**7/1/2021**	**Thu**
Ninth Meeting - Receive Feedback on Final IRP	**9/2/2021**	**Thu**
File at NMPRC	**8/16/2021**	**Mon**