

# APPENDIX A: System Data

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## 1. Existing Generation

Table A.1-1: Existing generation capacity within the CAISO planning area - January 2026

		<b>PG&amp;E</b>	<b>SCE</b>	<b>SDG&amp;E</b>	<b>VEA</b>	<b>Total</b>
<b>Existing Generation Nameplate Capacity (MW)</b>	<b>Nuclear</b>	2,300	0	0	0	<u>2,352</u>
	<b>Natural Gas</b>	14,850	14,158	4,681	0	<u>33,688</u>
	<b>Hydro</b>	8,125	3,419	0	0	<u>11,544</u>
	<b>Solar</b>	6,105	14,522	3,339	365	<u>24,331</u>
	<b>Wind</b>	1,650	4,370	1,002	0	<u>7,022</u>
	<b>Biogas</b>	111	197	9	0	<u>317</u>
	<b>Biomass</b>	499	4	0	0	<u>503</u>
	<b>Geo-Thermal</b>	1,379	410	0	0	<u>1,789</u>
	<b>Battery Storage</b>	3,523	11,121	2,441	150	<u>17,235</u>
	<b>Hybrid</b>	507	1,338	632	0	<u>2,478</u>
	<b>Other</b>	409	515	83	0	<u>1,006</u>
	<b>Total</b>	<u>39,510</u>	<u>50,053</u>	<u>12,187</u>	<u>515</u>	<u>102,265</u>

For detailed resource information, please refer to Master Control Area Generating Capability List in OASIS under ATLAS REFERENCE tab at the following link:

<http://oasis.caiso.com/mrioasis>

## 2. Generation Retirements

See the Announced Retirement and Mothball List on the ISO website.

<http://www.caiso.com/Documents/AnnouncedRetirementAndMothballList.xlsx>

### 3. Reactive Resources

Substation	Capacity (MVar)	Technology
Gates	225	Shunt Capacitors
Los Banos	225	Shunt Capacitors
Gregg	150	Shunt Capacitors
McCall	132	Shunt Capacitors
Mesa (PG&E)	100	Shunt Capacitors
Metcalf	350	Shunt Capacitors
Olinda	200	Shunt Capacitors
Table Mountain	454	Shunt Capacitors
Devers	156 & 605 (dynamic capability)	Static VAr Compensator
Rector	200	Static VAr Compensator
Santiago	3x81	Synchronous Condensers
Mira Loma 230kV	158	Shunt Capacitors
Mira Loma 500kV	300	Shunt Capacitors
Mesa 500/230 kV	405	Shunt Capacitors
San Luis Rey	63	Shunt Capacitors
Bay Boulevard	100	Shunt Capacitors
Miguel	126	Shunt Capacitors
Escondido	126	Shunt Capacitors
Suncrest	126	Shunt Capacitors
Capistrano	150	Shunt Capacitors
Penasquitos	276	Shunt Capacitors
San Luis Rey	2x225	Synchronous Condensers
Talega	2x225	Synchronous Condensers
Miguel	2x225	Synchronous Condensers
San Onofre	225	Synchronous Condensers
Suncrest	300	Static VAr Compensator

## 4. Remedial Action Schemes

Table A.4-1: Existing key Remedial Action Schemes in the PG&E area

PTO	Area	RAS Name
PG&E	Central Coast / Los Padres	Mesa and Santa Maria Undervoltage RAS
	Central Coast / Los Padres	Divide Undervoltage RAS
	Central Coast / Los Padres	Temblor-San Luis Obispo 115 kV Overload Scheme
	Central Coast / Los Padres	Paso Robles 70 kV Undervoltage RAS
	Central Coast / Los Padres	Coburn Transfer trip
	Central Coast / Los Padres	Carrizo RAS
	Bulk	COI RAS
	Bulk	Colusa RAS
	Bulk	Diablo Canyon RAS
	Bulk	Midway 500/230 kV Transformer Overload RAS
	Bulk	Path 15 IRAS
	Bulk	Path 26 RAS North to South
	Bulk	Path 26 RAS South to North
	Bulk	Table Mt 500/230 kV Bank #1 RAS
	Central Valley	Drum (Sierra Pacific) Overload Scheme (Path 24)
	Central Valley	Stanislaus – Manteca 115 kV Line Load Limit Scheme
	Central Valley	Vaca-Suisun 115 kV Lines Thermal Overload Scheme
	Central Valley	West Sacramento 115 kV Overload Scheme
	Central Valley	West Sacramento Double Line Outage Load Shedding RAS Scheme
	Greater Fresno Area	Ashlan RAS
	Greater Fresno Area	Atwater RAS
	Greater Fresno Area	FRTRAS
	Greater Fresno Area	Helms RAS
	Greater Fresno Area	Henrietta RAS
	Greater Fresno Area	Herndon-Bullard RAS
	Greater Fresno Area	Kerckhoff 2 RAS
	Greater Fresno Area	Reedley RAS
	Greater Fresno Area	Hatchet Ridge RAS

PTO	Area	RAS Name
	Greater Fresno Area	Exchequer Legrand 115kV RAS
	Greater Bay Area	Metcalf RAS
	Greater Bay Area	SF RAS
	Greater Bay Area	South of San Mateo RAS
	Greater Bay Area	Metcalf-Monta Vista 230kV OL RAS
	Greater Bay Area	San Mateo-Bay Meadows 115kV line OL
	Greater Bay Area	Moraga-Oakland J 115kV line OL RAS
	Greater Bay Area	Grant 115kV OL RAS
	Greater Bay Area	Oakland 115 kV C-X Cable OL RAS
	Greater Bay Area	Oakland 115kV D-L Cable OL RAS
	Greater Bay Area	Sobrante-Standard Oil #1 & #2-115kV line
	Greater Bay Area	Gilroy RAS
	Greater Bay Area	Transbay Cable Run Back Scheme
	Humboldt	Humboldt – Trinity 115kV Thermal Overload Scheme
	North Valley	Caribou Generation 230 kV RAS Scheme #1
	North Valley	Caribou Generation 230 kV RAS Scheme #2
	North Valley	Cascade Thermal Overload Scheme
	North Valley	Hatchet Ridge Thermal Overload Scheme
	North Valley	Coleman Thermal Overload Scheme

Table A.4-2: Existing Key Remedial Action Schemes in SCE area

PTO	Area	RAS Name
<b>SCE</b>	Northern Area	Big Creek/ San Joaquin Valley RAS
	Northern Area	Whirlwind C-RAS
	Northern Area	Windhub C-RAS
	Northern Area	Tehachapi C-RAS
	Northern Area	Pastoria Energy Facility RAS (PEF RAS)
	Northern Area	Midway-Vincent Path RAS (SCE MVRAS)
	North of Lugo	Bishop RAS
	North of Lugo	High Desert Power Project RAS (HDPP RAS)
	North of Lugo	Mojave Desert RAS
	East of Lugo	Ivanpah Area RAS
	East of Lugo	Lugo - Victorville RAS
	Eastern Area	West of Colorado River Corridor C-RAS
	Eastern Area	Blythe Energy RAS
	Metro Area	El Nido N-2 C-RAS Analytic
	Metro Area	South of Lugo (SOL) N-2 RAS
	Metro Area	Mira Loma Low Voltage Load Shedding (LVLS) Scheme

Table A.4-3: Existing Remedial Action Schemes in SDG&E area

PTO	Area	RAS Name
SDG&E	SDG&E	69kV TL 695 at TA
	SDG&E	69kV TL 680C at SM
	SDG&E	69kV TL 600 RAS
	SDG&E	69kV TL 686 RAS
	SDG&E	69kV TL 649 RAS
	SDG&E	Crestwood RAS – Remedial Action Scheme for Kumeyaay Wind Generation (currently disabled and will be removed from service in the future)
	SDG&E	Valley Center RAS
	SDG&E	Avocado RAS
	SDG&E	138kV TL 13810A RAS
	SDG&E	TL23040 IV 500 kV N-1 RAS
	SDG&E	230kV Otay Mesa Gen Drop RAS
	SDG&E	TL 23041 / TL 23042 RAS
	SDG&E	TL 23054 / TL 23055 RAS
	SDG&E	230kV TL 23066 RAS
	SDG&E	230kV TL 23003 / TL 23011 RAS
	SDG&E	230kV TL 23006 RAS
	SDG&E	Miguel BK 80 / BK 81 RAS
	SDG&E	500kV TL 50001 Gen Drop RAS
	SDG&E	500kV TL 50003 Gen Drop RAS
	SDG&E	500kV TL 50004 Gen Drop RAS
	SDG&E	500kV TL 50005 Gen Drop RAS
	SDG&E	South of San Onofre Safety Net

*Table A.4-4: Existing Key Remedial Action Schemes in VEA area*

PTO	Area	RAS Name
VEA/GLW	VEA	Innovation RAS
	VEA	Sloan Canyon RAS
	VEA	Trout Canyon RAS

## 5. Facilities with less limiting ratings

The following tables present the facilities with less limiting ratings, resulting from approved transmission projects, that are modeled in the base cases for the near-term planning horizon. The In-Service Dates shown below are based on January 2025 Transmission Development Forum information provided by the PTOs, which were used in the 25-26 TPP base case development process.

*Table A.5-1: Facilities with less limiting ratings in the near-term planning horizon in the PG&E area*

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
Central Coast & Los Padres	CrazyHorse SS – Natividad SW #1 & #2 115kV line	Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring	May-30	71	81	200	239
Central Coast & Los Padres	Natividad SW #1 & #2 – Salinas 115kV line	Crazy Horse Canyon – Salinas – Soledad #1 and #2 115 kV Line Reconductoring	May-30	62	70	200	239
Central Coast & Los Padres	Sisquoc – Palmer 115kV line	South of Mesa Upgrade	Jun-29	75.9	86	140.03	159.75
Central Coast & Los Padres	Santa Ynez – Zaca 115kV line	South of Mesa Upgrade	Jun-29	65.3	74.1	140.03	159.75
Central Coast & Los Padres	Palmer-Zaca 115kV line	South of Mesa Upgrade	Jun-29	75.9	86	140.03	159.75
Greater Fresno Area	Borden-Gregg #1 and #2 230 kV lines	Borden-Storey 230 kV 1 and 2 Line Reconductoring	Apr-30	295.6	338.6	604.3	604.3
Greater Fresno Area	Herndon-Bullard #1 and #2 115 kV lines	Herndon-Bullard 115 kV Reconductoring Project	Dec-27	125.7	147.8	259	259
Greater Fresno Area	Reedley-Dinuba #1 70 kV line	Reedley 70 kV Capacity Increase	May-30	53.3	62.3	136.5	136.5
Greater Fresno Area	Camden-Kingsbus 70 kV line	Camden 70 kV Reinforcement	May-30	41.6	48.4	136.5	136.5
Greater Fresno Area	Wilson-Oro Loma 115kV Line	Wilson-Oro Loma 115kV Line Reconductoring	May-27	87.6	102.4	126	148
Greater Fresno Area	Losbanos-Livingston-Canal 70 kV line Mercy Springs-Cana-Oro Loma 70 kV line	Oro Loma 70 kV Area Reinforcement	Aug-28	53.3	62.3	136.5	136.5
Greater Fresno Area	Borden-Cassidy 70 kV line Cassidy-Coppermine 70 kV line	Coppermine 70 kV Reinforcement Project	Jun-28	53.3	62.3	53.3	62.3

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
Greater Bay Area	Vasona – Metcalf 230 kV line	Vasona-Metcalf 230 kV Line Limiting Elements Removal Project	Jul-26	366.5	420.3	694.3	694.3
Greater Bay Area	Monta Vista – Wolfe 115 kV line	South Bay Area Limiting Elements Upgrade	Apr-26	140.0	159.7	219.9	219.9
Greater Bay Area	Christie – Sobrante 115 kV line	Christie-Sobrante 115 kV Line Reconductor	Feb-28	91.8	104.0	140.0	159.7
Greater Bay Area	Pittsburg – Kirker TAP 2 115 kV line	Pittsburg-Kirker 115 kV Line Section Limiting Elements Upgrade	May-28	164.3	194.2	224.3	224.3
Greater Bay Area	Kirker TAP 2 – Kirker 115 kV line	Pittsburg-Kirker 115 kV Line Section Limiting Elements Upgrade	May-28	102.4	114.7	227.9	227.9
Greater Bay Area	Moraga – Oakland X #1 115 kV line	Moraga – Oakland X Rebuild project	Dec-28	71.5	80.9	227.9	227.9
Greater Bay Area	Moraga – Oakland X #2 115 kV line	Moraga – Oakland X Rebuild project	Dec-28	71.5	80.9	227.9	227.9
Greater Bay Area	Moraga – Oakland X #3 115 kV line	Moraga – Oakland X Rebuild project	Dec-28	71.5	80.9	227.9	227.9
Greater Bay Area	Moraga – Oakland X #4 115 kV line	Moraga – Oakland X Rebuild project	Dec-28	71.5	80.9	227.9	227.9
Greater Bay Area	North Tower – North Tower Jct. 115 kV line	North Tower 115 kV Looping Project	Feb-29	73.5	75.1	92.0	104.0
Greater Bay Area	San Mateo – Belmont 115 kV line	Redwood City Area 115 kV System Reinforcement	Mar-30	98.6	110.9	227.8	227.8
Greater Bay Area	Bair – Ravenswood 115 kV line	Redwood City Area 115 kV System Reinforcement	Mar-30	109.5	123.1	227.8	227.8
Greater Bay Area	San Mateo – Ravenswood 115 kV line	South of San Mateo Capacity Increase	Jun-28	91.8	123.1	228.0	228.0
Greater Bay Area	Martin – Sneath Lane 60 kV line	Martin - Millbrae 60 kV Area Reinforcement	May-30	50.7	57.6	119.0	119.0
Greater Bay Area	San Bruno – Sneath Lane 60 kV line	Martin - Millbrae 60 kV Area Reinforcement	May-30	50.7	57.6	119.0	119.0
Greater Bay Area	San Bruno – San Andreas 60 kV line	Martin - Millbrae 60 kV Area Reinforcement	May-30	55.9	62.6	119.0	119.0
Greater Bay Area	San Andreas – Millbrae 60 kV line	Martin - Millbrae 60 kV Area Reinforcement	May-30	43.1	48.8	119.0	119.0
Greater Bay Area	Jefferson – Stanford 60 kV line (Menlo - SLAC Tap only)	Jefferson - Stanford recabbling (Menlo - SLAC 60 kV Tap only)	May-29	60.3	60.3	79.6	79.6
Greater Bay Area	Newark – Dixon Landing 115 kV line	Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	May-28	183.2	210.1	598.0	598.0
Greater Bay Area	Metcalf – Swift 115 kV line	Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	May-28	207.1	239	598.0	598.0
Greater Bay Area	McKee – Piercy 115 kV line	Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	May-28	227.9	227.9	598.0	598.0
Greater Bay Area	Metcalf – Piercy 115 kV line	Metcalf-Piercy & Swift and Newark-Dixon Landing 115 kV Upgrade	May-28	227.9	227.9	598.0	598.0
Greater Bay Area	Newark – BART Jct 115 kV line	Newark-Milpitas #1 115 kV Line Limiting Facility Upgrade	May-27	159.7	176.7	261.1	261.1

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
Greater Bay Area	Milpitas – BART Jct 115 kV line	Newark-Milpitas #1 115 kV Line Limiting Facility Upgrade	May-27	239.0	239.0	261.1	261.1
Kern	Midway-Kern PP #1 230 kV line	"Midway – Kern PP #2 230 kV Line	Feb-29	328.7	388.4	754.1	754.1
Kern	Midway-Belridge 115 kV line	Midway-Temblor 115 kV Line Reconductor and Voltage Support	Feb-29	79.1	92.2	125.7	147.8
Kern	Wheeler-San Bernard 70 kV line	Tejon Area Reinforcement	Aug-27	59.8	68.3	136.5	136.5
Kern	Tejon-San Bernard 70 kV line	Tejon Area Reinforcement	Aug-27	59.8	68.3	136.5	136.5
Humboldt	Bridgeville-Garberville 60 kV line	Garberville Area Reinforcement	Dec-27	31.5	35.3	65.5	77.1
North Coast	Hopland-Cloverdale Jct 60 kV line	GIP Newtork upgrade	Feb-27	29	33	66	77
North Coast	Konocti-Eagle Rock 60 kV line	Konocti – Eagle Rock 60 kV Line Reconductoring	2030	55	63	103	119
North Coast	Geysers-Cloverdale 60 kV line	GIP network upgrade	Mar-27	29	33	66	77
North Coast	Tulucay-Napa #2 60 kV line	Tulucay-Napa #2 60 kV line Reconductoring project	Jul-27	66	77	117	117
North Valley	Delevan-Cortina 230 kV line	Delevan-Cortina 230 kV line reconductoring	Feb-28	331	380	604	604
North Valley	Redbluff-Coleman 60 kV reinforcement	Red Bluff-Coleman 60 kV Reinforcement	Mar-29	29	34	65.5	77.1
North Valley	Ignacio-SanRafael-Greenbrae 60 kV line	Ignacio Area Upgrade	Feb-28	51	58	119	119
North Valley	Ignacio-Las Gallinas 60 kV line	Ignacio Area Upgrade	Feb-28	51	58	119	119
Central Valley	Vaca-Plainfield 60 kV line	Vaca-Plainfield 60 kV Line Reconductoring	May-30	30.9	35.9	66	77
Central Valley	Woodland-Davis 115 kV line	Vaca Dixon Area Reinforcement	Apr-27	119.5	119.5	151	175
Central Valley	Cortina-Arbuckle 60 kV line	Cortina #1 60 kV Line Reconductoring	Dec-27	41.5	41.5	117	117
Central Valley	Arbuckle-Dunnigan 60 kV line	Cortina #1 60 kV Line Reconductoring	Dec-27	20.78	20.78	117	117
Central Valley	Bellota-Warmerville 230 kV line	Warmerville-Bellota 230 kV line reconductoring	Mar-24	478	478	754.1	754.1
Central Valley	Rio Oso-West Sacramento 115 kV line	Rio Oso - W. Sacramento Reconductoring	May-30	89.4	102	224.3	224.3
Central Valley	Rio Oso-SPI Jct-Lincoln 115 kV line	Reconductor Rio Oso-SPI Jct-Lincoln 115kV line	Dec-28	164	194	302.2	302.2
Central Valley	Lockeford No. 1 60 kV line	Mosher Transmission Project	Feb-28	29.2	33.9	66	77
Central Valley	Manteca-Ripon Jct 115 kV line	Manteca-Ripon-Riverbank-Melones Area 115 kV Line Reconductoring	Oct-27	56	64.9	119.4	119.4
Central Valley	Riverbank-Valley Home Tap 115 kV line	Manteca-Ripon-Riverbank-Melones Area 115 kV Line Reconductoring Project	Oct-27	60.4	67.7	125.7	147.8

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
Central Valley	Ripon-Manteca 115 kV Line	Ripon-Manteca 115 kV Line Reconductor	Apr-28	56	64.9	119.4	119.4
Central Valley	Stanislaus-Melones Sw Sta-Manteca #1 115 kV line	Stanislaus-Melones Sw Sta-Manteca #1 115 kV Line Reconductor	Jun-29	56	64.9	125.7	147.8
Central Valley	Weber-Mormon Jct 60 kV line	Weber-Mormon Jct 60 kV Line Section Reconductoring	Apr-27	41.3	48.1	65.5	77.1
Central Valley	Brighton-Grand 115 kV line #1 & Brighton-Grand 115 kV line #2	Brighton-Grand Island #1 and #2 115 kV Line reconductoring maintenance project	Nov-27	64.7	75.1	125.7	147.8
Central Valley	Manteca-Vierra 115 kV line	Manteca-Vierra rating update	Jul-24	119.4	119.4	224.3	224.3

Table A.5-2: Facilities with less limiting ratings in the near-term planning horizon in the SCE area

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
Main	Lugo – Eldorado 500 kV Line	Lugo – Eldorado series cap and terminal equipment upgrade	May-25	2078	2806	2858	3429
Main	Lugo – Victorville 500 kV Tie Line	Lugo – Victorville 500 kV Upgrade (SCE portion)	May-25	2598	2598	3213	3897
Main	Lugo-Mohave 500 kV Line	Lugo-Mohave series capacitor upgrade	May-25	2078	2806	2858	3429
Main	Mira Loma-Mesa 500 kV Line	Mira Loma-Mesa 500 kV Underground Third Cable Upgrade	Dec-26	1992	3204	3421	4616
Main	Antelope-Whirlwind 500 kV Line #1	Antelope-Whirlwind Line Upgrade	Dec-25	2598	3057	3421	3880
Main	Sylmar 230/230 kV transformers	Sylmar Transformer Replacement	Dec-26	600	800	1290	1610
Main	Pardee-Sylmar 230 kV Lines #1 & 2	Pardee-Sylmar 230 kV Line Rating Increase Project	Jun-29	1195.1	1338.5	1287	1737
North of Lugo	Lugo-Victor 230 kV Lines #1, 2, 3, & 4	Lugo-Victor-Kramer Upgrade	May-28	494	665	702	953
Eastern	Colorado River-Red Bluff 500 kV Line #1	Colorado River-Red Bluff 500 kV Line #1 Upgrade	Dec-27	2338	2858	3421	3880
Eastern	Devers-Red Bluff 500 kV Lines #1 & 2	Devers-Red Bluff 500 kV Lines #1 & 2 Upgrade	Jan-30	2598	2858 (Line #1) 2910 (Line #2)	3291	3880
Eastern	Devers-Valley 500 kV Line #1	Devers-Valley 500 kV Line #1 Upgrade	Dec-27	2598	2858	3421	3880
Eastern	Serrano-Alberhill-Valley 500 kV Line #1	Serrano-Alberhill-Valley 500 kV Line #1 Upgrade	Dec-27	2598	4157	3421	3880
Eastern	Vista-Etiwanda 230 kV Line #1	Vista-Etiwanda 230 kV Line #1 Upgrade	Mar-29	797	876	988	1331
Eastern	San Bernardino-Etiwanda 230 kV Line #1	San Bernardino-Etiwanda 230 kV Line #1 Upgrade	Mar-29	988	1040	1287	1737
Eastern	San Bernardino-Vista 230 kV Line #1	San Bernardino-Vista 230 kV Line #1 Upgrade	Mar-29	988	1331	1287	1737

Table A.5-3: Facilities with less limiting ratings in the near-term planning horizon in the SDG&E area

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
SDG&E	TL623C San Ysidro - Otay Tap 69 kV line	TL623C Reconductor (San Ysidro - Otay Tap)	Nov-26	50	50	68	68
SDG&E	TL695 Talega - Basilone 69 kV line	TL695B Japanese Mesa - Talega Tap Reconductor	Jan-28	24	24	97	97
SDG&E	TL690E Stuart Tap - Las Pulgas 69 kV line	TL690E, Stuart Tap - Las Pulgas 69 kV Reconductor	Dec-28	32	32	102	102

Table A.5-4: Facilities with less limiting ratings in the near-term planning horizon in the VEA area

Study Area	Facility	Project that will increase facility rating	In-Service Date	Current Normal Rating (MVA)	Current Emergency Rating (MVA)	Planned Normal Rating (MVA)	Planned Emergency Rating (MVA)
VEA	Trout Canyon – Sloan Canyon 230 kV line	Rebuild Trout Canyon – Sloan Canyon 230 kV DCTL lines to 500 kV DCTL lines	Dec-27	303	421	4330.13 for circuits 1 and 2	4330.13 for circuits 1 and 2
VEA	Northwest – Desert View 230 kV line	Rebuild Northwest – Desert View to double circuit line	Dec-27	663	860	1593.40 for circuits 1 and 2	1593.40 for circuits 1 and 2
VEA	Pahrump – Gamebird 230 kV line	Rebuild Pahrump – Gamebird to double circuit line	Dec-27	303	421	1570.90 for circuits 1 and 2	1570.90 for circuits 1 and 2
VEA	Trout Canyon – Gamebird 230 kV line	Rebuild Gamebird – Trout Canyon to double circuit line	Dec-27	303	421	1570.90 for circuits 1 and 2	1570.90 for circuits 1 and 2
VEA	Innovation – Desert View 230 kV No.1 line	Rebuild Innovation – Desert View 230 kV No.1 line	Dec-27	331	461	1566.00	1566.00
VEA	Innovation – Pahrump 230 kV line	Rebuild Innovation – Pahrump 230 kV line	Dec-27	331	461	1568.00 for circuits 1 and 2 in all segments	1568.00 for circuits 1 and 2 in all segments