Release Date: November 19, 2021

Seasonal Assessment of Resource Adequacy for the ERCOT Region (SARA)
Winter 2021/2022

SUMMARY

ERCOT's new aggressive approach to managing the electric grid is continuing, with significant operational improvements over the summer of 2021 and additional changes planned for the winter of 2021-2022.

Assuming that the ERCOT Region experiences typical winter grid conditions, ERCOT anticipates that there will be sufficient installed generating capacity available to serve the system-wide forecasted peak demand for the upcoming winter season, December 2021 – February 2022. The forecasted peak demand is 62,001 MW and is based on the average weather conditions at the time of the winter peak demand. As part of our aggressive grid management planning, we have also included additional low-probability, high-impact scenarios.

Nearly 85,000 MW of resource capacity is expected to be available for the winter peak. This amount is all operational capacity; there is no planned capacity expected to become operational by the start of the winter season based on the latest developer information. This is largely due to the new practice of classifying projects approved for grid synchronization as operational rather than planned resources. Two thermal generation resources—a coal and a gas-fired unit—are out of service for the winter season. Also noteworthy is that three units (two gas-fired and one biomass-fired) representing 223 MW that previously operated only during the summer season are now planned for year-around operation. However, one of the gas units (61 MW) is the aforementioned unit experiencing an extended outage.

The winter SARA includes a thermal generating unit outage assumption of 8,988 MW during the winter months, which is based on historical winter outage data for the last three winter seasons: 2018/19, 2019/20, and partial 2020/21. (Unplanned outages between 2/15/21 to 2/28/21 are excluded in the base analysis due to the exceptional impact of Winter Storm Uri.)

The winter SARA includes two Risk Scenario tabs: Base & Moderate Risk Scenarios, and Extreme Risk Scenarios. The set of Extreme Risk scenarios has been expanded to include a new "extreme low" renewables output assumption as well as estimates of the thermal and renewable outage improvements due to the Texas Public Utility Commission's October 2021 Electric Weatherization Standard and voluntary weatherization activities conducted by natural gas supply and pipeline operators.

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Forecasted Capacity and Demand, MW

Resources, MW		
Operational Resources (thermal and hydro)	67,933	Based on current Seasonal Maximum Sustainable Limits reported through the unit registration process
Switchable Capacity Total	3,750	Installed capacity of units that can interconnect with other Regions and are available to ERCOT
Less Switchable Capacity Unavailable to ERCOT	-456	Based on survey responses of Switchable Resource owners
Available Mothballed Capacity	0	Based on seasonal Mothball units plus Probability of Return responses of Mothball Resource owners
Capacity from Private Use Networks	3,549	Average grid injection during the top 20 winter peak load hours over the last three years, plus the forecasted net change in generation capacity available to the ERCOT grid pursuant to Nodal Protocol Section 10.3.2.4.
Coastal Wind, Peak Average Capacity Contribution	2,321	Based on 47% of installed capacity for coastal wind resources (winter season) per ERCOT Nodal Protocols Section 3.2.6.2.2
Panhandle Wind, Peak Average Capacity Contribution	1,499	Based on 34% of installed capacity for panhandle wind resources (winter season) per ERCOT Nodal Protocols Section 3.2.6.2.2
Other Wind, Peak Average Capacity Contribution	4,856	Based on 20% of installed capacity for other wind resources (winter season) per ERCOT Nodal Protocols Section 3.2.6.2.2
Solar Utility-Scale, Peak Average Capacity Contribution	690	Based on 7% of rated capacity for solar resources (winter season) per Nodal Protocols Section 3.2.6.2.2
Storage, Peak Average Capacity Contribution	0	Based on 0% of rated capacity (winter season); resources assumed to provide regulation reserves rather than sustained capacity available to meet peak loads
RMR Capacity to be under Contract	0	
Capacity Pending Retirement	0	Announced retired capacity that is undergoing ERCOT grid reliability reviews pursuant to Nodal Protocol Section 3.14.1.2
Non-Synchronous Ties, Capacity Contribution	720	Based on net imports during winter 2013/2014 Energy Emergency Alert (EEA) intervals
Planned Thermal Resources with Signed IA, Air Permits and Adequate Water Supplies	0	Based on in-service dates provided by developers
Planned Coastal Wind with Signed IA, Peak Average Capacity Contribution	0	Based on in-service dates provided by developers and 47% winter capacity contribution for coastal wind resources
Planned Panhandle Wind with Signed IA, Peak Average Capacity Contribution	0	Based on in-service dates provided by developers and 34% winter capacity contribution for panhandle wind resources
Planned Other Wind with Signed IA, Peak Average Capacity Contribution	0	Based on in-service dates provided by developers and 20% winter capacity contribution for other wind resources
Planned Solar Utility-Scale, Peak Average Capacity Contribution	0	Based on in-service dates provided by developers and 7% winter capacity contribution for solar resources
Planned Storage, Peak Average Capacity Contribution	0	Based on in-service dates provided by developers and 0% winter capacity contribution for storage resources
[a] Total Resources, MW	84,861	
Peak Demand, MW	62,001	Based on average weather conditions at the time of the winter peak demand from 2005 – 2019
Rooftop PV Forecast, MW	0	Based on rooftop solar PV capacity during the peak load hour that is not already included in the peak load forecast; for winter, the amount is negligible
[b] Adjusted Peak Demand, MW	62,001	
[c] Reserve Capacity [a - b], MW	22,860	
[d] Planning Reserve Margin	43.3%	Formula: PRM = (Total Resources / (Adjusted Peak Demand - Emergency Resources)) - 1

Base & Moderate Reserve Capacity Risk Scenarios

	Forecasted Peak Load Typical Generation Outages Typical Renewable Output	High Peak Load Typical Generation Outages Typical Renewable Output	Forecasted Peak Load Typical Generation Outages Low Renewable Output	Forecasted Peak Load High Generation Outages Typical Renewable Output	
Scenario Adjustments					**Description**
Seasonal Load Adjustment	-	10,771	-	-	Based on 2011 weather; the high winter peak load forecast is 72,772 MW.
Typical Planned Outages, Thermal	1,565	1,565	1,565	1,565	Based on the historical average of planned outages for December through February weekdays, hours ending 7 am - 10 am, for the last three winter seasons (2018/19, 2019/20, and 2020/21). Outage history excludes units that are not expected to be available for the peak period of the upcoming seasons. These unavailable units are comprised of units that have retired, have announced upcoming retirements, are under extended outage, are mothballed, or are unavailable switchable generators. See the Background tab for more information on thermal outage accounting practices.
Typical Unplanned Outages, Thermal	7,423	7,423	7,423	7,423	Based on historical average of Unplanned outages for December through February weekdays, hours ending 7 am - 10 am, for the last three winter seasons. Outage history excludes units that are not expected to be available for the peak period of the upcoming seasons. These unavailable units are comprised of units that have retired, have announced upcoming retirements, are under extended outage, are mothballed, or are unavailable switchable generators. Winter Storm Uri-related Unplanned outages between 2/15/21 to 2/28/21 were excluded from this calculation.
High Unplanned Outages, Thermal	-	-	-	4,393	Based on the 95th percentile historical average of Unplanned outages for December through February weekdays, hours ending 7 am - 10 am, for the last three winter seasons. Winter Storm Uri related Unplanned outages between 2/15/21 to 2/28/21 were excluded. Winter Storm Uri-related Unplanned outages between 2/15/21 to 2/28/21 were excluded from this calculation.
Low Renewable Output	-	-	6,267	-	Based on the 5th percentile of hourly wind & solar capacity factors (output as a percentage of installed capacity) associated with the 100 highest Net Load hours (Load minus wind output minus solar output) for the last three winter seasons; this low output level is 3,098 MW. Solar is assumed to be zero MW, so the total adjustment is 6,267 MW (9,365 MW less 3,098 MW).
Outage Reductions Due to Generation Entity Compliance with the October 2021 Electric Weatherization Standards (16 TAC § 25.55) and Voluntary Natural Gas Industry Weatherization Efforts					
Outage Reduction, Thermal	-	-	-	(2,943)	Based on an outage reduction success rate of 67%, which is applied to the High Unplanned Outage adjustment amount. See the Background tab for additional details.
Outage Reduction, Renewables	-	-	(224)	-	Based on an outage reduction success rate of 60% for only those outages not associated with icing and low temperature exeedences (1,435 MW). The resulting outage reduction, 861 MW, is multiplied by a 26% fleet-wide peak average capacity contribution. Solar weatherization efforts are assumed to not materially impact outages during the peak demand hour, hour-ending 8:00 am. See the Background tab for additional details.
[d] Total Uses of Reserve Capacity	8,988	19,759	15,032	10,438	

Capacity Available For Operating Reserves, MW

[e] Capacity Available for Operating Reserves, Normal Operating Conditions (22,860-d), MW Less than 2,300 MW indicates risk of EEA1	13,872	3,101	7,829	12,422	See the Background tab for additional details
[f] Emergency Resources deployed by ERCOT	-	-	-	-	An amount is only shown if Capacity Available for Operating Reserves, line item [e], is at or below 2,300 MW. Consists of the sum of expected Load Resources Available for Responsive Reserves for the winter season (1,570 MW, Emergency Response Service (1,010 MW), TDSP Voltage Reduction (102 MW), and Transmission and Distribution Utility pilot winter load management programs (114 MW). Each of these amounts reflect a 2% gross-up to account for avoided transmission losses. Other resources that may be available include voluntary customer Demand Response (including customer installation of backup generators), switchable generation resources currently serving the Eastern Interconnection, and additional DC tie imports subject to availability.
[g] Capacity Available for Operating Reserves, Emergency Conditions (e+f), MW Less than 1,000 MW indicates risk of EEA3 Load Shed	13,872	3,101	7,829	12,422	See the Background tab for additional details

Extreme Reserve Capacity Risk Scenarios

(Combinations of high and/or extreme risk assumptions resulting in low probability, high impact outcomes)

	High Peak Load High Generation Outages Expected Renewable Output	High Peak Load Typical Generation Outages Low Renewable Output	High Peak Load High Generation Outages Low Renewable Output	High Peak Load Extreme Generation Outages Low Renewable Output	High Peak Load Extreme Generation Outages Extreme Low Renewable Output	
Scenario Adjustments						**Description**
High Peak Load	10,771	10,771	10,771	10,771	10,771	Based on 2011 weather and an August 2020 economic forecast; the high winter peak load forecast is 72,772 MW.
Planned Outages, Average for Three Coldest Days Between 2011 and 2021, Thermal	762	762	762	762	762	Based on the average of the hourly planned outages for the three coldest winter days between 2011 and 2021 (1/6/2014, 1/7/2017, and 1/17/2018). It is assumed that ERCOT will request generation owners to return units to service if the units are able to be returned early. See the Background tab for more information on thermal outage accounting practices.
Typical Unplanned Outages, Thermal	7,423	7,423	7,423	7,423	7,423	Based on the historical average of Unplanned outages for December through February weekdays, hours-ending 7 am - 10 am, for the last three winter seasons. Outage history excludes units that are not expected to be available for the peak period of the upcoming seasons. These unavailable units are comprised of units that have retired, have announced upcoming retirements, are under extended outage, are mothballed, or are unavailable switchable generators. Uri-related unplanned outages between 2/15/21 to 2/28/21 were excluded from the calculations.
High Unplanned Outage, Thermal	4,393	-	4,393	-	-	Based on the 95th percentile historical average of Unplanned outages for December through February weekdays, hours-ending 8 am - 11 am, for the last three winter seasons. Uri-related Unplanned outages between 2/15/21 to 2/28/21 were excluded from the calculations.
Extreme Unplanned Outage, Thermal	-	-	-	7,661	7,661	Based on the maximum hourly unplanned outage amount for December through February weekdays, hours-ending 7 am - 10 am, for the last three winter seasons (2018-19, 2019-20, and 2020-21). Uri-related unplanned outages between 2/15/21 to 2/28/21 were excluded from the calculations.
Low Renewable Output	-	6,267	6,267	6,267	-	Based on the 5th percentile of hourly wind & solar capacity factors (output as a percentage of installed capacity) associated with the 100 highest Net Load hours (Load minus wind output minus solar output) for the last three winter seasons; this low output level is 3,098 MW. Solar is assumed to be zero MW, so the total adjustment is 6,267 MW (9,365 MW less 3,098 MW).
Extreme Low Renewable Output	-	-	-	-	8,769	Based on the minimim hourly wind capacity factor (output as a percentage of installed capacity) experienced during the last three winter seasons for hours ending 7 am through 10 am; this extremely low wind output level is 596 MW. Solar output is assumed to be zero MW, so the total adjustment is 8,769 MW (9,365 MW less 596 MW).
Outage Reductions Due to Generation Entity Compliance with the October 2021 Electric Weatherization Standards (16 TAC § 25.55) and Voluntary Natural Gas Industry Weatherization Efforts						
Outage Reduction, Thermal	(2,943)	-	(2,943)	(5,133)	(5,133)	Based on an outage reduction success rate of 67%, which is applied to the High and Extreme Unplanned Outage adjustment amounts. See the Background tab for additional details. See the Background tab for additional details.
Outage Reduction, Renewables	-	(224)	(224)	(224)	(224)	Based on an outage reduction success rate of 60% for only those outages not associated with icing and low temperature exeedences (1,435 MW). The resulting outage reduction, 861 MW, is multiplied by a 26% fleet-wide peak average capacity contribution. Solar weatherization efforts are assumed to not materially impact outages during the peak demand hour, hour-ending 8:00 AM. See the Background tab for additional details.
[d] Total Uses of Reserve Capacity	20,406	24,999	26,449	27,527	30,029	

Capacity Available For Operating Reserves

[e] Capacity Available for Operating Reserves, Normal Operating Conditions (22,860-d), MW Less than 2,300 MW indicates risk of EEA1	2,455	(2,139)	(3,588)	(4,667)	(7,169)	See the Background tab for additional details
[f] Emergency Resources deployed by ERCOT	-	2,796	2,796	2,796	2,796	An amount is only shown if Capacity Available for Operating Reserves, line item [e], is at or below 2,300 MW. Consists of the sum of expected Load Resources Available for Responsive Reserves for the winter season (1,570 MW, Emergency Response Service (1,010 MW), TDSP Voltage Reduction (102 MW), and Transmission and Distribution Utility pilot winter load management programs (114 MW). Each of these amounts reflect a 2% gross-up to account for avoided transmission losses. Other resources that may be available include voluntary customer Demand Response (including customer installation of backup generators), switchable generation resources currently serving the Eastern Interconnection, and additional DC tie imports subject to availability.
[g] Capacity Available for Operating Reserves, Emergency Conditions (e+f), MW Less than 1,000 MW indicates risk of EEA3 Load Shed	2,455	657	(792)	(1,871)	(4,373)	See the Background tab for additional details.

Unit Capacities - Winter

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
	Operational Resources (Thermal)							
4	COMANCHE PEAK U1		CPSES_UNIT1	SOMERVELL	NUCLEAR	NORTH	1990	1,235.0
5	COMANCHE PEAK U2		CPSES_UNIT2	SOMERVELL	NUCLEAR	NORTH	1993	1,225.0
6	SOUTH TEXAS U1		STP_STP_G1	MATAGORDA	NUCLEAR	COASTAL	1988	1,353.2
7	SOUTH TEXAS U2		STP_STP_G2	MATAGORDA	NUCLEAR	COASTAL	1989	1,340.0
8	COLETO CREEK		COLETO_COLETOG1	GOLIAD	COAL	SOUTH	1980	655.0
9	FAYETTE POWER U1		FPPYD1_FPP_G1	FAYETTE	COAL	SOUTH	1979	603.0
10	FAYETTE POWER U2		FPPYD1_FPP_G2	FAYETTE	COAL	SOUTH	1980	605.0
11	FAYETTE POWER U3		FPPYD2_FPP_G3	FAYETTE	COAL	SOUTH	1988	449.0
12	J K SPRUCE U1		CALAVERS_JKS1	BEXAR	COAL	SOUTH	1992	560.0
13	J K SPRUCE U2		CALAVERS_JKS2	BEXAR	COAL	SOUTH	2010	785.0
14	LIMESTONE U1		LEG_LEG_G1	LIMESTONE	COAL	NORTH	1985	824.0
15	LIMESTONE U2		LEG_LEG_G2	LIMESTONE	COAL	NORTH	1986	836.0
16	MARTIN LAKE U1		MLSES_UNIT1	RUSK	COAL	NORTH	1977	815.0
17	MARTIN LAKE U2		MLSES_UNIT2	RUSK	COAL	NORTH	1978	820.0
18	MARTIN LAKE U3		MLSES_UNIT3	RUSK	COAL	NORTH	1979	820.0
19	OAK GROVE SES U1		OGSES_UNIT1A	ROBERTSON	COAL	NORTH	2010	855.0
20	OAK GROVE SES U2		OGSES_UNIT2	ROBERTSON	COAL	NORTH	2011	855.0
21	SAN MIGUEL U1		SANMIGL_G1	ATASCOSA	COAL	SOUTH	1982	391.0
22	SANDY CREEK U1		SCES_UNIT1	MCLENNAN	COAL	NORTH	2013	932.6
23	TWIN OAKS U1		TNP_ONE_TNP_O_1	ROBERTSON	COAL	NORTH	1990	155.0
24	TWIN OAKS U2		TNP_ONE_TNP_O_2	ROBERTSON	COAL	NORTH	1991	155.0
25	W A PARISH U5		WAP_WAP_G5	FORT BEND	COAL	HOUSTON	1977	664.0
26	W A PARISH U6		WAP_WAP_G6	FORT BEND	COAL	HOUSTON	1978	663.0
27	W A PARISH U7		WAP_WAP_G7	FORT BEND	COAL	HOUSTON	1980	577.0
28	W A PARISH U8		WAP_WAP_G8	FORT BEND	COAL	HOUSTON	1982	610.0
29	ARTHUR VON ROSENBERG 1 CTG 1		BRAUNIG_AVR1_CT1	BEXAR	GAS-CC	SOUTH	2000	169.0
30	ARTHUR VON ROSENBERG 1 CTG 2		BRAUNIG_AVR1_CT2	BEXAR	GAS-CC	SOUTH	2000	169.0
31	ARTHUR VON ROSENBERG 1 STG		BRAUNIG_AVR1_ST	BEXAR	GAS-CC	SOUTH	2000	190.0
32	ATKINS CTG 7		ATKINS_ATKINSG7	BRAZOS	GAS-GT	NORTH	1973	20.0
33	BARNEY M DAVIS CTG 3		B_DAVIS_B_DAVIG3	NUECES	GAS-CC	COASTAL	2010	165.0
34	BARNEY M DAVIS CTG 4		B_DAVIS_B_DAVIG4	NUECES	GAS-CC	COASTAL	2010	165.0
35	BARNEY M DAVIS STG 1		B_DAVIS_B_DAVIG1	NUECES	GAS-ST	COASTAL	1974	292.0
36	BARNEY M DAVIS STG 2		B_DAVIS_B_DAVIG2	NUECES	GAS-CC	COASTAL	1976	325.0
37	BASTROP ENERGY CENTER CTG 1	21INR0541	BASTEN_GTG1100	BASTROP	GAS-CC	SOUTH	2002	167.0
38	BASTROP ENERGY CENTER CTG 2	21INR0541	BASTEN_GTG2100	BASTROP	GAS-CC	SOUTH	2002	167.0
39	BASTROP ENERGY CENTER STG	21INR0541	BASTEN_ST0100	BASTROP	GAS-CC	SOUTH	2002	234.0
40	BOSQUE ENERGY CENTER CTG 1		BOSQUESW_BSQSU_1	BOSQUE	GAS-CC	NORTH	2000	170.9
41	BOSQUE ENERGY CENTER CTG 2		BOSQUESW_BSQSU_2	BOSQUE	GAS-CC	NORTH	2000	170.9
42	BOSQUE ENERGY CENTER CTG 3		BOSQUESW_BSQSU_3	BOSQUE	GAS-CC	NORTH	2001	168.5
43	BOSQUE ENERGY CENTER STG 4		BOSQUESW_BSQSU_4	BOSQUE	GAS-CC	NORTH	2001	85.2
44	BOSQUE ENERGY CENTER STG 5		BOSQUESW_BSQSU_5	BOSQUE	GAS-CC	NORTH	2009	226.7
45	BRAZOS VALLEY CTG 1		BVE_UNIT1	FORT BEND	GAS-CC	HOUSTON	2003	168.0
46	BRAZOS VALLEY CTG 2		BVE_UNIT2	FORT BEND	GAS-CC	HOUSTON	2003	168.0
47	BRAZOS VALLEY STG 3		BVE_UNIT3	FORT BEND	GAS-CC	HOUSTON	2003	270.0
48	CALENERGY-FALCON SEABOARD CTG 1		FLCNS_UNIT1	HOWARD	GAS-CC	WEST	1987	77.5
49	CALENERGY-FALCON SEABOARD CTG 2		FLCNS_UNIT2	HOWARD	GAS-CC	WEST	1987	77.5
50	CALENERGY-FALCON SEABOARD STG 3		FLCNS_UNIT3	HOWARD	GAS-CC	WEST	1988	74.0
51	CALHOUN (PORT COMFORT) CTG 1		CALHOUN_UNIT1	CALHOUN	GAS-GT	COASTAL	2017	49.8
52	CALHOUN (PORT COMFORT) CTG 2		CALHOUN_UNIT2	CALHOUN	GAS-GT	COASTAL	2017	49.8
53	CASTLEMAN CHAMON CTG 1		CHAMON_CTG_0101	HARRIS	GAS-GT	HOUSTON	2017	49.8
54	CASTLEMAN CHAMON CTG 2		CHAMON_CTG_0301	HARRIS	GAS-GT	HOUSTON	2017	49.8
55	CEDAR BAYOU 4 CTG 1		CBY4_CT41	CHAMBERS	GAS-CC	HOUSTON	2009	173.0
56	CEDAR BAYOU 4 CTG 2		CBY4_CT42	CHAMBERS	GAS-CC	HOUSTON	2009	173.0
57	CEDAR BAYOU 4 STG		CBY4_ST04	CHAMBERS	GAS-CC	HOUSTON	2009	186.0
58	CEDAR BAYOU STG 1		CBY_CBY_G1	CHAMBERS	GAS-ST	HOUSTON	1970	745.0
59	CEDAR BAYOU STG 2		CBY_CBY_G2	CHAMBERS	GAS-ST	HOUSTON	1972	749.0
60	COLORADO BEND ENERGY CENTER CTG 1		CBEC_GT1	WHARTON	GAS-CC	SOUTH	2007	85.0
61	COLORADO BEND ENERGY CENTER CTG 2		CBEC_GT2	WHARTON	GAS-CC	SOUTH	2007	79.1
62	COLORADO BEND ENERGY CENTER CTG 3		CBEC_GT3	WHARTON	GAS-CC	SOUTH	2008	86.9
63	COLORADO BEND ENERGY CENTER CTG 4		CBEC_GT4	WHARTON	GAS-CC	SOUTH	2008	81.2
64	COLORADO BEND ENERGY CENTER STG 1		CBEC_STG1	WHARTON	GAS-CC	SOUTH	2007	107.0
65	COLORADO BEND ENERGY CENTER STG 2		CBEC_STG2	WHARTON	GAS-CC	SOUTH	2008	110.0
66	COLORADO BEND II CTG 7	18INR0077	CBECII_CT7	WHARTON	GAS-CC	SOUTH	2017	360.2
67	COLORADO BEND II CTG 8	18INR0077	CBECII_CT8	WHARTON	GAS-CC	SOUTH	2017	359.6
68	COLORADO BEND II STG 9	18INR0077	CBECII_STG9	WHARTON	GAS-CC	SOUTH	2017	490.5
69	CVC CHANNELVIEW CTG 1		CVC_CVC_G1	HARRIS	GAS-CC	HOUSTON	2008	185.0
70	CVC CHANNELVIEW CTG 2		CVC_CVC_G2	HARRIS	GAS-CC	HOUSTON	2008	182.0
71	CVC CHANNELVIEW CTG 3		CVC_CVC_G3	HARRIS	GAS-CC	HOUSTON	2008	181.0
72	CVC CHANNELVIEW STG 5		CVC_CVC_G5	HARRIS	GAS-CC	HOUSTON	2008	144.0
73	DANSBY CTG 2		DANSBY_DANSBYG2	BRAZOS	GAS-GT	NORTH	2004	48.0
74	DANSBY CTG 3		DANSBY_DANSBYG3	BRAZOS	GAS-GT	NORTH	2010	50.0
75	DANSBY STG 1		DANSBY_DANSBYG1	BRAZOS	GAS-ST	NORTH	1978	110.0
76	DECKER CREEK CTG 1		DECKER_DPGT_1	TRAVIS	GAS-GT	SOUTH	1989	54.0
77	DECKER CREEK CTG 2		DECKER_DPGT_2	TRAVIS	GAS-GT	SOUTH	1989	54.0
78	DECKER CREEK CTG 3		DECKER_DPGT_3	TRAVIS	GAS-GT	SOUTH	1989	54.0
79	DECKER CREEK CTG 4		DECKER_DPGT_4	TRAVIS	GAS-GT	SOUTH	1989	54.0
80	DECKER CREEK STG 2 (EXPECTED TO RETIRE ON 3/31/22, RMR STUDY PE		DECKER_DPG2	TRAVIS	GAS-ST	SOUTH	1978	428.0
81	DECORDOVA CTG 1		DCSES_CT10	HOOD	GAS-GT	NORTH	1990	88.0
82	DECORDOVA CTG 2		DCSES_CT20	HOOD	GAS-GT	NORTH	1990	87.0
83	DECORDOVA CTG 3		DCSES_CT30	HOOD	GAS-GT	NORTH	1990	86.0
84	DECORDOVA CTG 4		DCSES_CT40	HOOD	GAS-GT	NORTH	1990	86.0
85	DEER PARK ENERGY CENTER CTG 1		DDPEC_GT1	HARRIS	GAS-CC	HOUSTON	2002	203.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
86	DEER PARK ENERGY CENTER CTG 2		DDPEC_GT2	HARRIS	GAS-CC	HOUSTON	2002	215.0
87	DEER PARK ENERGY CENTER CTG 3		DDPEC_GT3	HARRIS	GAS-CC	HOUSTON	2002	203.0
88	DEER PARK ENERGY CENTER CTG 4		DDPEC_GT4	HARRIS	GAS-CC	HOUSTON	2002	215.0
89	DEER PARK ENERGY CENTER CTG 6		DDPEC_GT6	HARRIS	GAS-CC	HOUSTON	2014	190.0
90	DEER PARK ENERGY CENTER STG 1		DDPEC_ST1	HARRIS	GAS-CC	HOUSTON	2002	290.0
91	DENTON ENERGY CENTER IC A		DEC_AGR_A	DENTON	GAS-IC	NORTH	2018	56.5
92	DENTON ENERGY CENTER IC B		DEC_AGR_B	DENTON	GAS-IC	NORTH	2018	56.5
93	DENTON ENERGY CENTER IC C		DEC_AGR_C	DENTON	GAS-IC	NORTH	2018	56.5
94	DENTON ENERGY CENTER IC D		DEC_AGR_D	DENTON	GAS-IC	NORTH	2018	56.5
95	ECTOR COUNTY ENERGY CTG 1		ECEC_G1	ECTOR	GAS-GT	WEST	2015	170.4
96	ECTOR COUNTY ENERGY CTG 2		ECEC_G2	ECTOR	GAS-GT	WEST	2015	170.4
97	ELK STATION IC 3		AEEC_ELK_3	HALE	GAS-IC	PANHANDLE	2016	200.0
98	ENNIS POWER STATION CTG 2		ETCCS_CT1	ELLIS	GAS-CC	NORTH	2002	245.0
99	ENNIS POWER STATION STG 1		ETCCS_UNIT1	ELLIS	GAS-CC	NORTH	2002	116.0
100	EXTEX LAPORTE GEN STN CTG 1		AZ_AZ_G1	HARRIS	GAS-GT	HOUSTON	2009	40.0
101	EXTEX LAPORTE GEN STN CTG 2		AZ_AZ_G2	HARRIS	GAS-GT	HOUSTON	2009	40.0
102	EXTEX LAPORTE GEN STN CTG 3		AZ_AZ_G3	HARRIS	GAS-GT	HOUSTON	2009	40.0
103	EXTEX LAPORTE GEN STN CTG 4		AZ_AZ_G4	HARRIS	GAS-GT	HOUSTON	2009	40.0
104	FERGUSON REPLACEMENT CTG 1		FERGCC_FERGGT1	LLANO	GAS-CC	SOUTH	2014	180.0
105	FERGUSON REPLACEMENT CTG 2		FERGCC_FERGGT2	LLANO	GAS-CC	SOUTH	2014	180.0
106	FERGUSON REPLACEMENT STG 1		FERGCC_FERGST1	LLANO	GAS-CC	SOUTH	2014	194.0
107	FORNEY ENERGY CENTER CTG 11		FRNYPP_GT11	KAUFMAN	GAS-CC	NORTH	2003	195.0
108	FORNEY ENERGY CENTER CTG 12		FRNYPP_GT12	KAUFMAN	GAS-CC	NORTH	2003	185.0
109	FORNEY ENERGY CENTER CTG 13		FRNYPP_GT13	KAUFMAN	GAS-CC	NORTH	2003	185.0
110	FORNEY ENERGY CENTER CTG 21		FRNYPP_GT21	KAUFMAN	GAS-CC	NORTH	2003	195.0
111	FORNEY ENERGY CENTER CTG 22		FRNYPP_GT22	KAUFMAN	GAS-CC	NORTH	2003	185.0
112	FORNEY ENERGY CENTER CTG 23		FRNYPP_GT23	KAUFMAN	GAS-CC	NORTH	2003	185.0
113	FORNEY ENERGY CENTER STG 10		FRNYPP_ST10	KAUFMAN	GAS-CC	NORTH	2003	418.0
114	FORNEY ENERGY CENTER STG 20		FRNYPP_ST20	KAUFMAN	GAS-CC	NORTH	2003	418.0
115	FREESTONE ENERGY CENTER CTG 1		FREC_GT1	FREESTONE	GAS-CC	NORTH	2002	160.7
116	FREESTONE ENERGY CENTER CTG 2		FREC_GT2	FREESTONE	GAS-CC	NORTH	2002	160.7
117	FREESTONE ENERGY CENTER CTG 4		FREC_GT4	FREESTONE	GAS-CC	NORTH	2002	161.1
118	FREESTONE ENERGY CENTER CTG 5		FREC_GT5	FREESTONE	GAS-CC	NORTH	2002	161.1
119	FREESTONE ENERGY CENTER STG 3		FREC_ST3	FREESTONE	GAS-CC	NORTH	2002	179.8
120	FREESTONE ENERGY CENTER STG 6		FREC_ST6	FREESTONE	GAS-CC	NORTH	2002	179.7
121	FRIENDSWOOD G CTG 1 (FORMERLY TEJAS POWER GENERATION)		FEGC_UNIT1	HARRIS	GAS-GT	HOUSTON	2018	119.0
122	GRAHAM STG 1		GRSES_UNIT1	YOUNG	GAS-ST	WEST	1960	239.0
123	GRAHAM STG 2		GRSES_UNIT2	YOUNG	GAS-ST	WEST	1969	390.0
124	GREENS BAYOU CTG 73		GBY_GBYGT73	HARRIS	GAS-GT	HOUSTON	1976	65.0
125	GREENS BAYOU CTG 74		GBY_GBYGT74	HARRIS	GAS-GT	HOUSTON	1976	65.0
126	GREENS BAYOU CTG 81		GBY_GBYGT81	HARRIS	GAS-GT	HOUSTON	1976	65.0
127	GREENS BAYOU CTG 82		GBY_GBYGT82	HARRIS	GAS-GT	HOUSTON	1976	50.0
128	GREENS BAYOU CTG 83		GBY_GBYGT83	HARRIS	GAS-GT	HOUSTON	1976	65.0
129	GREENS BAYOU CTG 84		GBY_GBYGT84	HARRIS	GAS-GT	HOUSTON	1976	65.0
130	GREENVILLE IC ENGINE PLANT IC 1		STEAM_ENGINE_1	HUNT	GAS-IC	NORTH	2010	8.2
131	GREENVILLE IC ENGINE PLANT IC 2		STEAM_ENGINE_2	HUNT	GAS-IC	NORTH	2010	8.2
132	GREENVILLE IC ENGINE PLANT IC 3		STEAM_ENGINE_3	HUNT	GAS-IC	NORTH	2010	8.2
133	GUADALUPE ENERGY CENTER CTG 1		GUADG_GAS1	GUADALUPE	GAS-CC	SOUTH	2000	167.0
134	GUADALUPE ENERGY CENTER CTG 2		GUADG_GAS2	GUADALUPE	GAS-CC	SOUTH	2000	167.0
135	GUADALUPE ENERGY CENTER CTG 3		GUADG_GAS3	GUADALUPE	GAS-CC	SOUTH	2000	167.0
136	GUADALUPE ENERGY CENTER CTG 4		GUADG_GAS4	GUADALUPE	GAS-CC	SOUTH	2000	167.0
137	GUADALUPE ENERGY CENTER STG 5		GUADG_STM5	GUADALUPE	GAS-CC	SOUTH	2000	203.0
138	GUADALUPE ENERGY CENTER STG 6		GUADG_STM6	GUADALUPE	GAS-CC	SOUTH	2000	203.0
139	HANDLEY STG 3		HLSES_UNIT3	TARRANT	GAS-ST	NORTH	1963	395.0
140	HANDLEY STG 4		HLSES_UNIT4	TARRANT	GAS-ST	NORTH	1976	435.0
141	HANDLEY STG 5		HLSES_UNIT5	TARRANT	GAS-ST	NORTH	1977	435.0
142	HAYS ENERGY FACILITY CSG 1		HAYSEN_HAYSENG1	HAYS	GAS-CC	SOUTH	2002	239.0
143	HAYS ENERGY FACILITY CSG 2	21INR0527	HAYSEN_HAYSENG2	HAYS	GAS-CC	SOUTH	2002	240.0
144	HAYS ENERGY FACILITY CSG 3	21INR0527	HAYSEN_HAYSENG3	HAYS	GAS-CC	SOUTH	2002	242.0
145	HAYS ENERGY FACILITY CSG 4		HAYSEN_HAYSENG4	HAYS	GAS-CC	SOUTH	2002	243.0
146	HIDALGO ENERGY CENTER CTG 1		DUKE_DUKE_GT1	HIDALGO	GAS-CC	SOUTH	2000	150.0
147	HIDALGO ENERGY CENTER CTG 2		DUKE_DUKE_GT2	HIDALGO	GAS-CC	SOUTH	2000	150.0
148	HIDALGO ENERGY CENTER STG 1		DUKE_DUKE_ST1	HIDALGO	GAS-CC	SOUTH	2000	176.0
149	JACK COUNTY GEN FACILITY CTG 1		JACKCNTY_CT1	JACK	GAS-CC	NORTH	2006	160.0
150	JACK COUNTY GEN FACILITY CTG 2		JACKCNTY_CT2	JACK	GAS-CC	NORTH	2006	160.0
151	JACK COUNTY GEN FACILITY CTG 3		JCKCNTY2_CT3	JACK	GAS-CC	NORTH	2011	165.0
152	JACK COUNTY GEN FACILITY CTG 4		JCKCNTY2_CT4	JACK	GAS-CC	NORTH	2011	165.0
153	JACK COUNTY GEN FACILITY STG 1		JACKCNTY_STG	JACK	GAS-CC	NORTH	2006	293.0
154	JACK COUNTY GEN FACILITY STG 2		JCKCNTY2_ST2	JACK	GAS-CC	NORTH	2011	310.0
155	JOHNSON COUNTY GEN FACILITY CTG 1		TEN_CT1	JOHNSON	GAS-CC	NORTH	1997	177.0
156	JOHNSON COUNTY GEN FACILITY STG 1		TEN_STG	JOHNSON	GAS-CC	NORTH	1997	106.0
157	LAKE HUBBARD STG 1		LHSES_UNIT1	DALLAS	GAS-ST	NORTH	1970	392.0
158	LAKE HUBBARD STG 2		LHSES_UNIT2A	DALLAS	GAS-ST	NORTH	1973	523.0
159	LAMAR ENERGY CENTER CTG 11		LPCCS_CT11	LAMAR	GAS-CC	NORTH	2000	186.0
160	LAMAR ENERGY CENTER CTG 12		LPCCS_CT12	LAMAR	GAS-CC	NORTH	2000	178.0
161	LAMAR ENERGY CENTER CTG 21		LPCCS_CT21	LAMAR	GAS-CC	NORTH	2000	178.0
162	LAMAR ENERGY CENTER CTG 22		LPCCS_CT22	LAMAR	GAS-CC	NORTH	2000	186.0
163	LAMAR ENERGY CENTER STG 1		LPCCS_UNIT1	LAMAR	GAS-CC	NORTH	2000	204.0
164	LAMAR ENERGY CENTER STG 2		LPCCS_UNIT2	LAMAR	GAS-CC	NORTH	2000	204.0
165	LAREDO CTG 4		LARDVFTN_G4	WEBB	GAS-GT	SOUTH	2008	97.4
166	LAREDO CTG 5		LARDVFTN_G5	WEBB	GAS-GT	SOUTH	2008	94.4
167	LEON CREEK PEAKER CTG 1		LEON_CRK_LCPCT1	BEXAR	GAS-GT	SOUTH	2004	46.0
168	LEON CREEK PEAKER CTG 2		LEON_CRK_LCPCT2	BEXAR	GAS-GT	SOUTH	2004	46.0
169	LEON CREEK PEAKER CTG 3		LEON_CRK_LCPCT3	BEXAR	GAS-GT	SOUTH	2004	46.0
170	LEON CREEK PEAKER CTG 4		LEON_CRK_LCPCT4	BEXAR	GAS-GT	SOUTH	2004	46.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
171	LOST PINES POWER CTG 1		LOSTPI_LOSTPGT1	BASTROP	GAS-CC	SOUTH	2001	183.0
172	LOST PINES POWER CTG 2		LOSTPI_LOSTPGT2	BASTROP	GAS-CC	SOUTH	2001	183.0
173	LOST PINES POWER STG 1		LOSTPI_LOSTPST1	BASTROP	GAS-CC	SOUTH	2001	192.0
174	MAGIC VALLEY STATION CTG 1		NEDIN_NEDIN_G1	HIDALGO	GAS-CC	SOUTH	2001	218.6
175	MAGIC VALLEY STATION CTG 2		NEDIN_NEDIN_G2	HIDALGO	GAS-CC	SOUTH	2001	218.6
176	MAGIC VALLEY STATION STG 3		NEDIN_NEDIN_G3	HIDALGO	GAS-CC	SOUTH	2001	257.9
177	MIDLOTHIAN ENERGY FACILITY CTG 1		MDANP_CT1	ELLIS	GAS-CC	NORTH	2001	258.0
178	MIDLOTHIAN ENERGY FACILITY CTG 2	21INR0534	MDANP_CT2	ELLIS	GAS-CC	NORTH	2001	256.0
179	MIDLOTHIAN ENERGY FACILITY CTG 3	22INR0543	MDANP_CT3	ELLIS	GAS-CC	NORTH	2001	255.0
180	MIDLOTHIAN ENERGY FACILITY CTG 4	21INR0534	MDANP_CT4	ELLIS	GAS-CC	NORTH	2001	258.0
181	MIDLOTHIAN ENERGY FACILITY CTG 5		MDANP_CT5	ELLIS	GAS-CC	NORTH	2002	276.0
182	MIDLOTHIAN ENERGY FACILITY CTG 6		MDANP_CT6	ELLIS	GAS-CC	NORTH	2002	278.0
183	MORGAN CREEK CTG 1		MGSES_CT1	MITCHELL	GAS-GT	WEST	1988	82.0
184	MORGAN CREEK CTG 2		MGSES_CT2	MITCHELL	GAS-GT	WEST	1988	80.0
185	MORGAN CREEK CTG 3		MGSES_CT3	MITCHELL	GAS-GT	WEST	1988	80.0
186	MORGAN CREEK CTG 4		MGSES_CT4	MITCHELL	GAS-GT	WEST	1988	81.0
187	MORGAN CREEK CTG 5		MGSES_CT5	MITCHELL	GAS-GT	WEST	1988	80.0
188	MORGAN CREEK CTG 6		MGSES_CT6	MITCHELL	GAS-GT	WEST	1988	82.0
189	MOUNTAIN CREEK STG 6		MCSES_UNIT6	DALLAS	GAS-ST	NORTH	1956	122.0
190	MOUNTAIN CREEK STG 7		MCSES_UNIT7	DALLAS	GAS-ST	NORTH	1958	118.0
191	MOUNTAIN CREEK STG 8		MCSES_UNIT8	DALLAS	GAS-ST	NORTH	1967	568.0
192	NUECES BAY REPOWER CTG 8		NUECES_B_NUECESG8	NUECES	GAS-CC	COASTAL	2010	165.0
193	NUECES BAY REPOWER CTG 9		NUECES_B_NUECESG9	NUECES	GAS-CC	COASTAL	2010	165.0
194	NUECES BAY REPOWER STG 7		NUECES_B_NUECESG7	NUECES	GAS-CC	COASTAL	1972	325.0
195	O W SOMMERS STG 1		CALAVERS_OWS1	BEXAR	GAS-ST	SOUTH	1972	420.0
196	O W SOMMERS STG 2		CALAVERS_OWS2	BEXAR	GAS-ST	SOUTH	1974	410.0
197	ODESSA-ECTOR POWER CTG 11		OECCS_CT11	ECTOR	GAS-CC	WEST	2001	195.2
198	ODESSA-ECTOR POWER CTG 12		OECCS_CT12	ECTOR	GAS-CC	WEST	2001	189.1
199	ODESSA-ECTOR POWER CTG 21	20INR0282	OECCS_CT21	ECTOR	GAS-CC	WEST	2001	195.2
200	ODESSA-ECTOR POWER CTG 22	20INR0282	OECCS_CT22	ECTOR	GAS-CC	WEST	2001	189.1
201	ODESSA-ECTOR POWER STG 1		OECCS_UNIT1	ECTOR	GAS-CC	WEST	2001	217.0
202	ODESSA-ECTOR POWER STG 2	20INR0282	OECCS_UNIT2	ECTOR	GAS-CC	WEST	2001	217.0
203	PANDA SHERMAN POWER CTG 1		PANDA_S_SHER1CT1	GRAYSON	GAS-CC	NORTH	2014	223.0
204	PANDA SHERMAN POWER CTG 2		PANDA_S_SHER1CT2	GRAYSON	GAS-CC	NORTH	2014	220.0
205	PANDA SHERMAN POWER STG 1		PANDA_S_SHER1ST1	GRAYSON	GAS-CC	NORTH	2014	312.0
206	PANDA TEMPLE I POWER CTG 1	22INR0533	PANDA_T1_TMPL1CT1	BELL	GAS-CC	NORTH	2014	218.5
207	PANDA TEMPLE I POWER CTG 2	22INR0533	PANDA_T1_TMPL1CT2	BELL	GAS-CC	NORTH	2014	218.5
208	PANDA TEMPLE I POWER STG 1	22INR0533	PANDA_T1_TMPL1ST1	BELL	GAS-CC	NORTH	2014	333.6
209	PANDA TEMPLE II POWER CTG 1		PANDA_T2_TMPL2CT1	BELL	GAS-CC	NORTH	2015	218.5
210	PANDA TEMPLE II POWER CTG 2		PANDA_T2_TMPL2CT2	BELL	GAS-CC	NORTH	2015	218.5
211	PANDA TEMPLE II POWER STG 1		PANDA_T2_TMPL2ST1	BELL	GAS-CC	NORTH	2015	333.6
212	PARIS ENERGY CENTER CTG 1		TNSKA_GT1	LAMAR	GAS-CC	NORTH	1989	87.0
213	PARIS ENERGY CENTER CTG 2		TNSKA_GT2	LAMAR	GAS-CC	NORTH	1989	87.0
214	PARIS ENERGY CENTER STG 1		TNSKA_STG	LAMAR	GAS-CC	NORTH	1990	89.0
215	PASADENA COGEN FACILITY CTG 2		PSG_PSG_GT2	HARRIS	GAS-CC	HOUSTON	2000	176.0
216	PASADENA COGEN FACILITY CTG 3		PSG_PSG_GT3	HARRIS	GAS-CC	HOUSTON	2000	176.0
217	PASADENA COGEN FACILITY STG 2		PSG_PSG_ST2	HARRIS	GAS-CC	HOUSTON	2000	169.0
218	PEARSALL ENGINE PLANT IC A		PEARSAL2_AGR_A	FRIO	GAS-IC	SOUTH	2012	50.6
219	PEARSALL ENGINE PLANT IC B		PEARSAL2_AGR_B	FRIO	GAS-IC	SOUTH	2012	50.6
220	PEARSALL ENGINE PLANT IC C		PEARSAL2_AGR_C	FRIO	GAS-IC	SOUTH	2012	50.6
221	PEARSALL ENGINE PLANT IC D		PEARSAL2_AGR_D	FRIO	GAS-IC	SOUTH	2012	50.6
222	PERMIAN BASIN CTG 1		PB2SES_CT1	WARD	GAS-GT	WEST	1988	79.0
223	PERMIAN BASIN CTG 2		PB2SES_CT2	WARD	GAS-GT	WEST	1988	76.0
224	PERMIAN BASIN CTG 3		PB2SES_CT3	WARD	GAS-GT	WEST	1988	78.0
225	PERMIAN BASIN CTG 4		PB2SES_CT4	WARD	GAS-GT	WEST	1990	75.0
226	PERMIAN BASIN CTG 5		PB2SES_CT5	WARD	GAS-GT	WEST	1990	79.0
227	PROENERGY SOUTH 1 (PES1) CTG 1		PES1_UNIT1	HARRIS	GAS-GT	HOUSTON	2021	49.8
228	PROENERGY SOUTH 1 (PES1) CTG 2		PES1_UNIT2	HARRIS	GAS-GT	HOUSTON	2021	49.8
229	PROENERGY SOUTH 1 (PES1) CTG 3		PES1_UNIT3	HARRIS	GAS-GT	HOUSTON	2021	49.8
230	PROENERGY SOUTH 1 (PES1) CTG 4		PES1_UNIT4	HARRIS	GAS-GT	HOUSTON	2021	49.8
231	PROENERGY SOUTH 1 (PES1) CTG 5		PES1_UNIT5	HARRIS	GAS-GT	HOUSTON	2021	49.8
232	PROENERGY SOUTH 1 (PES1) CTG 6		PES1_UNIT6	HARRIS	GAS-GT	HOUSTON	2021	49.8
233	PROENERGY SOUTH 2 (PES2) CTG 7		PES1_UNIT7	HARRIS	GAS-GT	HOUSTON	2021	49.8
234	PROENERGY SOUTH 2 (PES2) CTG 8		PES1_UNIT8	HARRIS	GAS-GT	HOUSTON	2021	49.8
235	PHR PEAKERS (BAC) CTG 1		BAC_CTG1	GALVESTON	GAS-GT	HOUSTON	2018	65.0
236	PHR PEAKERS (BAC) CTG 2		BAC_CTG2	GALVESTON	GAS-GT	HOUSTON	2018	65.0
237	PHR PEAKERS (BAC) CTG 3		BAC_CTG3	GALVESTON	GAS-GT	HOUSTON	2018	65.0
238	PHR PEAKERS (BAC) CTG 4		BAC_CTG4	GALVESTON	GAS-GT	HOUSTON	2018	65.0
239	PHR PEAKERS (BAC) CTG 5		BAC_CTG5	GALVESTON	GAS-GT	HOUSTON	2018	64.0
240	PHR PEAKERS (BAC) CTG 6		BAC_CTG6	GALVESTON	GAS-GT	HOUSTON	2018	65.0
241	POWERLANE PLANT STG 1		STEAM1A_STEAM_1	HUNT	GAS-ST	NORTH	1966	17.5
242	POWERLANE PLANT STG 2		STEAM_STEAM_2	HUNT	GAS-ST	NORTH	1967	23.5
243	POWERLANE PLANT STG 3		STEAM_STEAM_3	HUNT	GAS-ST	NORTH	1978	39.5
244	QUAIL RUN ENERGY CTG 1		QALSW_GT1	ECTOR	GAS-CC	WEST	2007	84.0
245	QUAIL RUN ENERGY CTG 2		QALSW_GT2	ECTOR	GAS-CC	WEST	2007	86.0
246	QUAIL RUN ENERGY CTG 3		QALSW_GT3	ECTOR	GAS-CC	WEST	2008	81.0
247	QUAIL RUN ENERGY CTG 4		QALSW_GT4	ECTOR	GAS-CC	WEST	2008	81.0
248	QUAIL RUN ENERGY STG 1		QALSW_STG1	ECTOR	GAS-CC	WEST	2007	98.0
249	QUAIL RUN ENERGY STG 2		QALSW_STG2	ECTOR	GAS-CC	WEST	2008	98.0
250	R W MILLER CTG 4		MIL_MILLERG4	PALO PINTO	GAS-GT	NORTH	1994	115.0
251	R W MILLER CTG 5		MIL_MILLERG5	PALO PINTO	GAS-GT	NORTH	1994	115.0
252	R W MILLER STG 1		MIL_MILLERG1	PALO PINTO	GAS-ST	NORTH	1968	75.0
253	R W MILLER STG 2		MIL_MILLERG2	PALO PINTO	GAS-ST	NORTH	1972	120.0
254	R W MILLER STG 3		MIL_MILLERG3	PALO PINTO	GAS-ST	NORTH	1975	208.0
255	RAY OLINGER CTG 4		OLINGR_OLING_4	COLLIN	GAS-GT	NORTH	2001	95.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
256	RAY OLINGER STG 1		OLINGR_OLING_1	COLLIN	GAS-ST	NORTH	1967	78.0
257	RAY OLINGER STG 2		OLINGR_OLING_2	COLLIN	GAS-ST	NORTH	1971	107.0
258	RAY OLINGER STG 3		OLINGR_OLING_3	COLLIN	GAS-ST	NORTH	1975	146.0
259	REDGATE IC A		REDGATE_AGR_A	HIDALGO	GAS-IC	SOUTH	2016	56.3
260	REDGATE IC B		REDGATE_AGR_B	HIDALGO	GAS-IC	SOUTH	2016	56.3
261	REDGATE IC C		REDGATE_AGR_C	HIDALGO	GAS-IC	SOUTH	2016	56.3
262	REDGATE IC D		REDGATE_AGR_D	HIDALGO	GAS-IC	SOUTH	2016	56.3
263	RIO NOGALES POWER CTG 1		RIONOG_CT1	GUADALUPE	GAS-CC	SOUTH	2002	193.0
264	RIO NOGALES POWER CTG 2		RIONOG_CT2	GUADALUPE	GAS-CC	SOUTH	2002	193.0
265	RIO NOGALES POWER CTG 3		RIONOG_CT3	GUADALUPE	GAS-CC	SOUTH	2002	193.0
266	RIO NOGALES POWER STG 4		RIONOG_ST1	GUADALUPE	GAS-CC	SOUTH	2002	319.0
267	SAM RAYBURN POWER CTG 7		RAYBURN_RAYBURG7	VICTORIA	GAS-CC	SOUTH	2003	50.0
268	SAM RAYBURN POWER CTG 8		RAYBURN_RAYBURG8	VICTORIA	GAS-CC	SOUTH	2003	51.0
269	SAM RAYBURN POWER CTG 9		RAYBURN_RAYBURG9	VICTORIA	GAS-CC	SOUTH	2003	50.0
270	SAM RAYBURN POWER STG 10		RAYBURN_RAYBURG10	VICTORIA	GAS-CC	SOUTH	2003	40.0
271	SAN JACINTO SES CTG 1		SJS_SJS_G1	HARRIS	GAS-GT	HOUSTON	1995	87.0
272	SAN JACINTO SES CTG 2		SJS_SJS_G2	HARRIS	GAS-GT	HOUSTON	1995	87.0
273	SANDHILL ENERGY CENTER CTG 1		SANDHSYD_SH1	TRAVIS	GAS-GT	SOUTH	2001	48.0
274	SANDHILL ENERGY CENTER CTG 2		SANDHSYD_SH2	TRAVIS	GAS-GT	SOUTH	2001	48.0
275	SANDHILL ENERGY CENTER CTG 3		SANDHSYD_SH3	TRAVIS	GAS-GT	SOUTH	2001	48.0
276	SANDHILL ENERGY CENTER CTG 4		SANDHSYD_SH4	TRAVIS	GAS-GT	SOUTH	2001	48.0
277	SANDHILL ENERGY CENTER CTG 5A		SANDHSYD_SH_5A	TRAVIS	GAS-CC	SOUTH	2004	175.0
278	SANDHILL ENERGY CENTER CTG 6		SANDHSYD_SH6	TRAVIS	GAS-GT	SOUTH	2010	48.0
279	SANDHILL ENERGY CENTER CTG 7		SANDHSYD_SH7	TRAVIS	GAS-GT	SOUTH	2010	48.0
280	SANDHILL ENERGY CENTER STG 5C		SANDHSYD_SH_5C	TRAVIS	GAS-CC	SOUTH	2004	150.0
281	SILAS RAY CTG 10		SILASRAY_SILAS_10	CAMERON	GAS-GT	COASTAL	2004	46.0
282	SILAS RAY POWER CTG 9		SILASRAY_SILAS_9	CAMERON	GAS-CC	COASTAL	1996	49.0
283	SILAS RAY POWER STG 6		SILASRAY_SILAS_6	CAMERON	GAS-CC	COASTAL	1962	21.0
284	SIM GIDEON STG 1		GIDEON_GIDEONG1	BASTROP	GAS-ST	SOUTH	1965	130.0
285	SIM GIDEON STG 2		GIDEON_GIDEONG2	BASTROP	GAS-ST	SOUTH	1968	135.0
286	SIM GIDEON STG 3		GIDEON_GIDEONG3	BASTROP	GAS-ST	SOUTH	1972	340.0
287	SKY GLOBAL POWER ONE IC A		SKY1_SKY1A	COLORADO	GAS-IC	SOUTH	2016	26.7
288	SKY GLOBAL POWER ONE IC B		SKY1_SKY1B	COLORADO	GAS-IC	SOUTH	2016	26.7
289	SPENCER STG U4		SPNCER_SPNCE_4	DENTON	GAS-ST	NORTH	1966	57.0
290	SPENCER STG U5		SPNCER_SPNCE_5	DENTON	GAS-ST	NORTH	1973	61.0
291	STRYKER CREEK STG 1		SCSES_UNIT1A	CHEROKEE	GAS-ST	NORTH	1958	167.0
292	STRYKER CREEK STG 2		SCSES_UNIT2	CHEROKEE	GAS-ST	NORTH	1965	502.0
293	T H WHARTON CTG 1		THW_THWGT_1	HARRIS	GAS-GT	HOUSTON	1967	16.0
294	T H WHARTON POWER CTG 31		THW_THWGT31	HARRIS	GAS-CC	HOUSTON	1972	69.0
295	T H WHARTON POWER CTG 32		THW_THWGT32	HARRIS	GAS-CC	HOUSTON	1972	69.0
296	T H WHARTON POWER CTG 33		THW_THWGT33	HARRIS	GAS-CC	HOUSTON	1972	69.0
297	T H WHARTON POWER CTG 34		THW_THWGT34	HARRIS	GAS-CC	HOUSTON	1972	69.0
298	T H WHARTON POWER CTG 41		THW_THWGT41	HARRIS	GAS-CC	HOUSTON	1972	69.0
299	T H WHARTON POWER CTG 42		THW_THWGT42	HARRIS	GAS-CC	HOUSTON	1972	69.0
300	T H WHARTON POWER CTG 43		THW_THWGT43	HARRIS	GAS-CC	HOUSTON	1974	69.0
301	T H WHARTON POWER CTG 44		THW_THWGT44	HARRIS	GAS-CC	HOUSTON	1974	69.0
302	T H WHARTON POWER CTG 51		THW_THWGT51	HARRIS	GAS-GT	HOUSTON	1975	65.0
303	T H WHARTON POWER CTG 52		THW_THWGT52	HARRIS	GAS-GT	HOUSTON	1975	65.0
304	T H WHARTON POWER CTG 53		THW_THWGT53	HARRIS	GAS-GT	HOUSTON	1975	65.0
305	T H WHARTON POWER CTG 54		THW_THWGT54	HARRIS	GAS-GT	HOUSTON	1975	65.0
306	T H WHARTON POWER CTG 55		THW_THWGT55	HARRIS	GAS-GT	HOUSTON	1975	65.0
307	T H WHARTON POWER CTG 56		THW_THWGT56	HARRIS	GAS-GT	HOUSTON	1975	65.0
308	T H WHARTON POWER STG 3		THW_THWST_3	HARRIS	GAS-CC	HOUSTON	1974	110.0
309	T H WHARTON POWER STG 4		THW_THWST_4	HARRIS	GAS-CC	HOUSTON	1974	110.0
310	TEXAS CITY POWER CTG A		TXCTY_CTA	GALVESTON	GAS-CC	HOUSTON	2000	102.4
311	TEXAS CITY POWER CTG B		TXCTY_CTB	GALVESTON	GAS-CC	HOUSTON	2000	102.4
312	TEXAS CITY POWER CTG C		TXCTY_CTC	GALVESTON	GAS-CC	HOUSTON	2000	102.4
313	TEXAS CITY POWER STG		TXCTY_ST	GALVESTON	GAS-CC	HOUSTON	2000	131.5
314	TRINIDAD STG 6		TRSES_UNIT6	HENDERSON	GAS-ST	NORTH	1965	235.0
315	TOPAZ POWER PLANT U1		TOPAZ_UNIT1	GALVESTON	GAS-GT	HOUSTON	2021	49.8
316	TOPAZ POWER PLANT U2		TOPAZ_UNIT2	GALVESTON	GAS-GT	HOUSTON	2021	49.8
317	TOPAZ POWER PLANT U3		TOPAZ_UNIT3	GALVESTON	GAS-GT	HOUSTON	2021	49.8
318	TOPAZ POWER PLANT U4		TOPAZ_UNIT4	GALVESTON	GAS-GT	HOUSTON	2021	49.8
319	TOPAZ POWER PLANT U5		TOPAZ_UNIT5	GALVESTON	GAS-GT	HOUSTON	2021	49.8
320	TOPAZ POWER PLANT U6		TOPAZ_UNIT6	GALVESTON	GAS-GT	HOUSTON	2021	49.8
321	TOPAZ POWER PLANT U7		TOPAZ_UNIT7	GALVESTON	GAS-GT	HOUSTON	2021	49.8
322	TOPAZ POWER PLANT U8		TOPAZ_UNIT8	GALVESTON	GAS-GT	HOUSTON	2021	49.8
323	TOPAZ POWER PLANT U9		TOPAZ_UNIT9	GALVESTON	GAS-GT	HOUSTON	2021	49.8
324	TOPAZ POWER PLANT U10		TOPAZ_UNIT10	GALVESTON	GAS-GT	HOUSTON	2021	49.8
325	V H BRAUNIG CTG 5		BRAUNIG_VHB6CT5	BEXAR	GAS-GT	SOUTH	2009	48.0
326	V H BRAUNIG CTG 6		BRAUNIG_VHB6CT6	BEXAR	GAS-GT	SOUTH	2009	48.0
327	V H BRAUNIG CTG 7		BRAUNIG_VHB6CT7	BEXAR	GAS-GT	SOUTH	2009	48.0
328	V H BRAUNIG CTG 8		BRAUNIG_VHB6CT8	BEXAR	GAS-GT	SOUTH	2009	47.0
329	V H BRAUNIG STG 1		BRAUNIG_VHB1	BEXAR	GAS-ST	SOUTH	1966	217.0
330	V H BRAUNIG STG 2		BRAUNIG_VHB2	BEXAR	GAS-ST	SOUTH	1968	230.0
331	V H BRAUNIG STG 3		BRAUNIG_VHB3	BEXAR	GAS-ST	SOUTH	1970	412.0
332	VICTORIA CITY (CITYVICT) CTG 1		CITYVICT_CTG01	VICTORIA	GAS-GT	SOUTH	2020	49.8
333	VICTORIA CITY (CITYVICT) CTG 2		CITYVICT_CTG02	VICTORIA	GAS-GT	SOUTH	2020	49.8
334	VICTORIA PORT (VICTPORT) CTG 1		VICTPORT_CTG01	VICTORIA	GAS-GT	SOUTH	2019	49.8
335	VICTORIA PORT (VICTPORT) CTG 2		VICTPORT_CTG02	VICTORIA	GAS-GT	SOUTH	2019	49.8
336	VICTORIA POWER CTG 6		VICTORIA_VICTORG6	VICTORIA	GAS-CC	SOUTH	2009	171.0
337	VICTORIA POWER STG 5		VICTORIA_VICTORG5	VICTORIA	GAS-CC	SOUTH	2009	132.0
338	W A PARISH CTG 1		WAP_WAPGT_1	FORT BEND	GAS-GT	HOUSTON	1967	13.0
339	W A PARISH STG 1		WAP_WAP_G1	FORT BEND	GAS-ST	HOUSTON	1958	169.0
340	W A PARISH STG 2		WAP_WAP_G2	FORT BEND	GAS-ST	HOUSTON	1958	169.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
341	W A PARISH STG 3		WAP_WAP_G3	FORT BEND	GAS-ST	HOUSTON	1961	258.0
342	W A PARISH STG 4		WAP_WAP_G4	FORT BEND	GAS-ST	HOUSTON	1968	552.0
343	WICHITA FALLS CTG 1		WFCOGEN_UNIT1	WICHITA	GAS-CC	WEST	1987	20.0
344	WICHITA FALLS CTG 2		WFCOGEN_UNIT2	WICHITA	GAS-CC	WEST	1987	20.0
345	WICHITA FALLS CTG 3		WFCOGEN_UNIT3	WICHITA	GAS-CC	WEST	1987	20.0
346	WICHITA FALLS STG 4		WFCOGEN_UNIT4	WICHITA	GAS-CC	WEST	1987	16.0
347	WINCHESTER POWER PARK CTG 1		WIPOPA_WPP_G1	FAYETTE	GAS-GT	SOUTH	2009	46.0
348	WINCHESTER POWER PARK CTG 2		WIPOPA_WPP_G2	FAYETTE	GAS-GT	SOUTH	2009	46.0
349	WINCHESTER POWER PARK CTG 3		WIPOPA_WPP_G3	FAYETTE	GAS-GT	SOUTH	2009	46.0
350	WINCHESTER POWER PARK CTG 4		WIPOPA_WPP_G4	FAYETTE	GAS-GT	SOUTH	2009	46.0
351	WISE-TRACTEBEL POWER CTG 1	20INR0286	WCPP_CT1	WISE	GAS-CC	NORTH	2004	263.8
352	WISE-TRACTEBEL POWER CTG 2	20INR0286	WCPP_CT2	WISE	GAS-CC	NORTH	2004	263.8
353	WISE-TRACTEBEL POWER STG 1	20INR0286	WCPP_ST1	WISE	GAS-CC	NORTH	2004	298.0
354	WOLF HOLLOW 2 CTG 4	18INR0076	WHCCS2_CT4	HOOD	GAS-CC	NORTH	2017	353.3
355	WOLF HOLLOW 2 CTG 5	18INR0076	WHCCS2_CT5	HOOD	GAS-CC	NORTH	2017	354.6
356	WOLF HOLLOW 2 STG 6	18INR0076	WHCCS2_STG6	HOOD	GAS-CC	NORTH	2017	485.1
357	WOLF HOLLOW POWER CTG 1		WHCCS_CT1	HOOD	GAS-CC	NORTH	2002	240.4
358	WOLF HOLLOW POWER CTG 2		WHCCS_CT2	HOOD	GAS-CC	NORTH	2002	235.4
359	WOLF HOLLOW POWER STG		WHCCS_STG	HOOD	GAS-CC	NORTH	2002	269.0
360	NACOGDOCHES POWER		NACPW_UNIT1	NACOGDOCHES	BIOMASS	NORTH	2012	105.0
361	BIOENERGY AUSTIN WALZEM RD LFG		DG_WALZE_4UNITS	BEXAR	BIOMASS	SOUTH	2002	9.8
362	BIOENERGY TEXAS COVEL GARDENS LFG		DG_MEDIN_1UNIT	BEXAR	BIOMASS	SOUTH	2005	9.6
363	FARMERS BRANCH LANDFILL GAS TO ENERGY		DG_HBR_2UNITS	DENTON	BIOMASS	NORTH	2011	3.2
364	GRAND PRAIRIE LFG		DG_TRIRA_1UNIT	DALLAS	BIOMASS	NORTH	2015	4.0
365	NELSON GARDENS LFG		DG_78252_4UNITS	BEXAR	BIOMASS	SOUTH	2013	4.2
366	WM RENEWABLE-AUSTIN LFG		DG_SPRIN_4UNITS	TRAVIS	BIOMASS	SOUTH	2007	6.4
367	WM RENEWABLE-BIOENERGY PARTNERS LFG		DG_BIOE_2UNITS	DENTON	BIOMASS	NORTH	1988	6.2
368	WM RENEWABLE-DFW GAS RECOVERY LFG		DG_BIO2_4UNITS	DENTON	BIOMASS	NORTH	2009	6.4
369	WM RENEWABLE-MESQUITE CREEK LFG		DG_FREIH_2UNITS	COMAL	BIOMASS	SOUTH	2011	3.2
370	WM RENEWABLE-WESTSIDE LFG		DG_WSTHL_3UNITS	PARKER	BIOMASS	NORTH	2010	4.8
371	**Operational Capacity Total (Nuclear, Coal, Gas, Biomass)**							**68,245.9**
372								
373	**Operational Resources - Synchronized but not Approved for Commercial Operations (Thermal)**							
374	BRANDON (LP&L) (DGR)	21INR0201	BRANDON_UNIT1	LUBBOCK	GAS-GT	PANHANDLE	2021	20.0
375	MIRAGE CTG 1	17INR0022	MIRAGE_GEN_0001	HARRIS	GAS-GT	HOUSTON	2022	11.0
376	OLD BLOOMINGTON ROAD CTG 1 (VICTORIA POR	19INR0057	VICTPRT2_UNIT1	VICTORIA	GAS-GT	SOUTH	2021	49.8
377	OLD BLOOMINGTON ROAD CTG 2 (VICTORIA POR	19INR0057	VICTPRT2_UNIT2	VICTORIA	GAS-GT	SOUTH	2021	49.8
378	R MASSENGALE CTG 1 (LP&L)	21INR0202	MASSENGL_G6	LUBBOCK	GAS-CC	PANHANDLE	2021	18.0
379	R MASSENGALE CTG 2 (LP&L)	21INR0202	MASSENGL_G7	LUBBOCK	GAS-CC	PANHANDLE	2021	18.0
380	R MASSENGALE STG (LP&L)	21INR0202	MASSENGL_G8	LUBBOCK	GAS-CC	PANHANDLE	2021	38.0
381	TY COOKE CTG 1 (LP&L)	21INR0506	TY_COOKE_GT2	LUBBOCK	GAS-GT	PANHANDLE	2021	14.0
382	TY COOKE CTG 2 (LP&L)	21INR0506	TY_COOKE_GT3	LUBBOCK	GAS-GT	PANHANDLE	2021	17.0
383	**Operational Capacity - Synchronized but not Approved for Commercial Operations Total (Nuclear, Coal, Gas, Biomass)**							**235.6**
384								
385	**Operational Resources (Hydro)**							
386	AMISTAD HYDRO 1		AMISTAD_AMISTAG1	VAL VERDE	HYDRO	WEST	1983	37.9
387	AMISTAD HYDRO 2		AMISTAD_AMISTAG2	VAL VERDE	HYDRO	WEST	1983	37.9
388	AUSTIN HYDRO 1		AUSTPL_AUSTING1	TRAVIS	HYDRO	SOUTH	1940	8.0
389	AUSTIN HYDRO 2		AUSTPL_AUSTING2	TRAVIS	HYDRO	SOUTH	1940	9.0
390	BUCHANAN HYDRO 1		BUCHAN_BUCHANG1	LLANO	HYDRO	SOUTH	1938	16.0
391	BUCHANAN HYDRO 2		BUCHAN_BUCHANG2	LLANO	HYDRO	SOUTH	1938	16.0
392	BUCHANAN HYDRO 3		BUCHAN_BUCHANG3	LLANO	HYDRO	SOUTH	1950	17.0
393	DENISON DAM 1		DNDAM_DENISOG1	GRAYSON	HYDRO	NORTH	1944	49.5
394	DENISON DAM 2		DNDAM_DENISOG2	GRAYSON	HYDRO	NORTH	1948	49.5
395	EAGLE PASS HYDRO		EAGLE_HY_EAGLE_HY1	MAVERICK	HYDRO	SOUTH	2005	9.6
396	FALCON HYDRO 1		FALCON_FALCONG1	STARR	HYDRO	SOUTH	1954	12.0
397	FALCON HYDRO 2		FALCON_FALCONG2	STARR	HYDRO	SOUTH	1954	12.0
398	FALCON HYDRO 3		FALCON_FALCONG3	STARR	HYDRO	SOUTH	1954	12.0
399	GRANITE SHOALS HYDRO 1		WIRTZ_WIRTZ_G1	BURNET	HYDRO	SOUTH	1951	29.0
400	GRANITE SHOALS HYDRO 2		WIRTZ_WIRTZ_G2	BURNET	HYDRO	SOUTH	1951	29.0
401	GUADALUPE BLANCO RIVER AUTH-CANYON		CANYHY_CANYHYG1	COMAL	HYDRO	SOUTH	1989	6.0
402	INKS HYDRO 1		INKSDA_INKS_G1	LLANO	HYDRO	SOUTH	1938	14.0
403	MARBLE FALLS HYDRO 1		MARBFA_MARBFAG1	BURNET	HYDRO	SOUTH	1951	21.0
404	MARBLE FALLS HYDRO 2		MARBFA_MARBFAG2	BURNET	HYDRO	SOUTH	1951	20.0
405	MARSHALL FORD HYDRO 1		MARSFO_MARSFOG1	TRAVIS	HYDRO	SOUTH	1941	34.0
406	MARSHALL FORD HYDRO 2		MARSFO_MARSFOG2	TRAVIS	HYDRO	SOUTH	1941	36.0
407	MARSHALL FORD HYDRO 3		MARSFO_MARSFOG3	TRAVIS	HYDRO	SOUTH	1941	36.0
408	WHITNEY DAM HYDRO		WND_WHITNEY1	BOSQUE	HYDRO	NORTH	1953	22.0
409	WHITNEY DAM HYDRO 2		WND_WHITNEY2	BOSQUE	HYDRO	NORTH	1953	22.0
410	**Operational Capacity Total (Hydro)**							**555.4**
411	Hydro Capacity Contribution (Top 20 Hours)		HYDRO_CAP_CONT					401.9
412								
413	Operational Hydro Resources, Settlement Only Distributed Generators (SODGs)							
414	ARLINGTON OUTLET HYDROELECTRIC FACILITY		DG_OAKHL_1UNIT	TARRANT	HYDRO	NORTH	2014	1.4
415	GUADALUPE BLANCO RIVER AUTH-LAKEWOOD TAP		DG_LKWDT_2UNITS	GONZALES	HYDRO	SOUTH	1931	4.8
416	GUADALUPE BLANCO RIVER AUTH-MCQUEENEY		DG_MCQUE_5UNITS	GUADALUPE	HYDRO	SOUTH	1928	7.7
417	GUADALUPE BLANCO RIVER AUTH-SCHUMANSVILLE		DG_SCHUM_2UNITS	GUADALUPE	HYDRO	SOUTH	1928	3.6
418	LEWISVILLE HYDRO-CITY OF GARLAND		DG_LWSVL_1UNIT	DENTON	HYDRO	NORTH	1991	2.2
419	**Operational Hydro Resources Total, Settlement Only Distributed Generators (SODGs)**							**19.7**
420	Hydro SODG Capacity Contribution (Highest 20 Peak Load Hours)		DG_HYDRO_CAP_CONT					14.3
421								
422	Operational Capacity Unavailable due to Extended Outage or Derate		OPERATION_UNAVAIL					(964.3)
423	Operational Capacity Total (Including Hydro)		OPERATION_TOTAL					67,933.3
424								
425	**Operational Resources (Switchable)**							

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
426	ANTELOPE IC 1		AEEC_ANTLP_1	HALE	GAS-IC	PANHANDLE	2016	56.0
427	ANTELOPE IC 2		AEEC_ANTLP_2	HALE	GAS-IC	PANHANDLE	2016	56.0
428	ANTELOPE IC 3		AEEC_ANTLP_3	HALE	GAS-IC	PANHANDLE	2016	56.0
429	ELK STATION CTG 1		AEEC_ELK_1	HALE	GAS-GT	PANHANDLE	2016	200.0
430	ELK STATION CTG 2		AEEC_ELK_2	HALE	GAS-GT	PANHANDLE	2016	200.0
431	TENASKA FRONTIER STATION CTG 1		FTR_FTR_G1	GRIMES	GAS-CC	NORTH	2000	180.0
432	TENASKA FRONTIER STATION CTG 2		FTR_FTR_G2	GRIMES	GAS-CC	NORTH	2000	180.0
433	TENASKA FRONTIER STATION CTG 3		FTR_FTR_G3	GRIMES	GAS-CC	NORTH	2000	180.0
434	TENASKA FRONTIER STATION STG 4		FTR_FTR_G4	GRIMES	GAS-CC	NORTH	2000	400.0
435	TENASKA GATEWAY STATION CTG 1		TGCCS_CT1	RUSK	GAS-CC	NORTH	2001	162.0
436	TENASKA GATEWAY STATION CTG 2		TGCCS_CT2	RUSK	GAS-CC	NORTH	2001	179.0
437	TENASKA GATEWAY STATION CTG 3		TGCCS_CT3	RUSK	GAS-CC	NORTH	2001	178.0
438	TENASKA GATEWAY STATION STG 4		TGCCS_UNIT4	RUSK	GAS-CC	NORTH	2001	389.0
439	TENASKA KIAMICHI STATION 1CT101		KMCHI_1CT101	FANNIN	GAS-CC	NORTH	2003	167.0
440	TENASKA KIAMICHI STATION 1CT201		KMCHI_1CT201	FANNIN	GAS-CC	NORTH	2003	164.0
441	TENASKA KIAMICHI STATION 1ST		KMCHI_1ST	FANNIN	GAS-CC	NORTH	2003	330.0
442	TENASKA KIAMICHI STATION 2CT101		KMCHI_2CT101	FANNIN	GAS-CC	NORTH	2003	170.0
443	TENASKA KIAMICHI STATION 2CT201		KMCHI_2CT201	FANNIN	GAS-CC	NORTH	2003	173.0
444	TENASKA KIAMICHI STATION 2ST		KMCHI_2ST	FANNIN	GAS-CC	NORTH	2003	330.0
445	**Switchable Capacity Total**							**3,750.0**
446								
447	**Switchable Capacity Unavailable to ERCOT**							
448	ANTELOPE IC 1		AEEC_ANTLP_1_UNAVAIL	HALE	GAS-IC	PANHANDLE	2017	(56.0)
449	ANTELOPE IC 2		AEEC_ANTLP_2_UNAVAIL	HALE	GAS-IC	PANHANDLE	2017	-
450	ANTELOPE IC 3		AEEC_ANTLP_3_UNAVAIL	HALE	GAS-IC	PANHANDLE	2017	-
451	ELK STATION CTG 1		AEEC_ELK_1_UNAVAIL	HALE	GAS-GT	PANHANDLE	2017	(200.0)
452	ELK STATION CTG 2		AEEC_ELK_2_UNAVAIL	HALE	GAS-GT	PANHANDLE	2017	(200.0)
453	**Switchable Capacity Unavailable to ERCOT Total**							**(456.0)**
454								
455	Available Mothball Capacity based on Owner's Return Probability		MOTH_AVAIL					-
456								
457	Private-Use Network Capacity Contribution (Top 20 Hours)		PUN_CAP_CONT		GAS			3,586.2
458	Private-Use Network Forecast Adjustment (per Protocol 10.3.2.4)		PUN_CAP_ADJUST		GAS			(37.0)
459								
460	**Operational Resources (Wind)**							
461	AMADEUS WIND 1 U1		AMADEUS1_UNIT1	FISHER	WIND-O	WEST	2021	36.7
462	AMADEUS WIND 1 U2		AMADEUS1_UNIT2	FISHER	WIND-O	WEST	2021	35.8
463	AMADEUS WIND 2 U1		AMADEUS2_UNIT3	FISHER	WIND-O	WEST	2021	177.7
464	ANACACHO WIND		ANACACHO_ANA	KINNEY	WIND-O	SOUTH	2012	99.8
465	AVIATOR WIND U1		AVIATOR_UNIT1	COKE	WIND-O	WEST	2021	180.1
466	AVIATOR WIND U2		AVIATOR_UNIT2	COKE	WIND-O	WEST	2021	145.6
467	AVIATOR WIND U3		DEWOLF_UNIT1	COKE	WIND-O	WEST	2021	199.3
468	BAFFIN WIND UNIT1		BAFFIN_UNIT1	KENEDY	WIND-C	COASTAL	2016	100.0
469	BAFFIN WIND UNIT2		BAFFIN_UNIT2	KENEDY	WIND-C	COASTAL	2016	102.0
470	BARROW RANCH (JUMBO HILL WIND) 1		BARROW_UNIT1	ANDREWS	WIND-O	WEST	2021	90.2
471	BARROW RANCH (JUMBO HILL WIND) 2		BARROW_UNIT2	ANDREWS	WIND-O	WEST	2021	70.5
472	BARTON CHAPEL WIND		BRTSW_BCW1	JACK	WIND-O	NORTH	2007	120.0
473	BLUE SUMMIT WIND 1 A		BLSUMMIT_BLSMT1_5	WILBARGER	WIND-O	WEST	2013	8.8
474	BLUE SUMMIT WIND 1 B		BLSUMMIT_BLSMT1_6	WILBARGER	WIND-O	WEST	2013	124.3
475	BLUE SUMMIT WIND 2 A		BLSUMMIT_UNIT2_25	WILBARGER	WIND-O	WEST	2020	89.7
476	BLUE SUMMIT WIND 2 B		BLSUMMIT_UNIT2_17	WILBARGER	WIND-O	WEST	2020	6.7
477	BLUE SUMMIT WIND 3 A		BLSUMIT3_UNIT_17	WILBARGER	WIND-O	WEST	2020	13.4
478	BLUE SUMMIT WIND 3 B		BLSUMIT3_UNIT_25	WILBARGER	WIND-O	WEST	2020	182.4
479	BOBCAT BLUFF WIND		BCATWIND_WIND_1	ARCHER	WIND-O	WEST	2020	162.0
480	BRISCOE WIND		BRISCOE_WIND	BRISCOE	WIND-P	PANHANDLE	2015	149.8
481	BRUENNING'S BREEZE A		BBREEZE_UNIT1	WILLACY	WIND-C	COASTAL	2017	120.0
482	BRUENNING'S BREEZE B		BBREEZE_UNIT2	WILLACY	WIND-C	COASTAL	2017	108.0
483	BUCKTHORN WIND 1 A		BUCKTHRN_UNIT1	ERATH	WIND-O	NORTH	2017	44.9
484	BUCKTHORN WIND 1 B		BUCKTHRN_UNIT2	ERATH	WIND-O	NORTH	2017	55.7
485	BUFFALO GAP WIND 1		BUFF_GAP_UNIT1	TAYLOR	WIND-O	WEST	2006	120.6
486	BUFFALO GAP WIND 2_1		BUFF_GAP_UNIT2_1	TAYLOR	WIND-O	WEST	2007	115.5
487	BUFFALO GAP WIND 2_2		BUFF_GAP_UNIT2_2	TAYLOR	WIND-O	WEST	2007	117.0
488	BUFFALO GAP WIND 3		BUFF_GAP_UNIT3	TAYLOR	WIND-O	WEST	2008	170.2
489	BULL CREEK WIND U1		BULLCRK_WND1	BORDEN	WIND-O	WEST	2009	88.0
490	BULL CREEK WIND U2		BULLCRK_WND2	BORDEN	WIND-O	WEST	2009	90.0
491	CABEZON WIND (RIO BRAVO I WIND) 1 A		CABEZON_WIND1	STARR	WIND-O	SOUTH	2019	115.2
492	CABEZON WIND (RIO BRAVO I WIND) 1 B		CABEZON_WIND2	STARR	WIND-O	SOUTH	2019	122.4
493	CALLAHAN WIND		CALLAHAN_WND1	CALLAHAN	WIND-O	WEST	2004	123.1
494	CAMERON COUNTY WIND		CAMWIND_UNIT1	CAMERON	WIND-C	COASTAL	2016	165.0
495	CAMP SPRINGS WIND 1		CSEC_CSECG1	SCURRY	WIND-O	WEST	2007	130.5
496	CAMP SPRINGS WIND 2		CSEC_CSECG2	SCURRY	WIND-O	WEST	2007	120.0
497	CANADIAN BREAKS WIND		CN_BRKS_UNIT_1	OLDHAM	WIND-P	PANHANDLE	2019	210.1
498	CAPRICORN RIDGE WIND 1	17INR0054	CAPRIDGE_CR1	STERLING	WIND-O	WEST	2007	231.7
499	CAPRICORN RIDGE WIND 2	17INR0054	CAPRIDGE_CR2	STERLING	WIND-O	WEST	2007	149.5
500	CAPRICORN RIDGE WIND 3	17INR0054	CAPRIDGE_CR3	STERLING	WIND-O	WEST	2008	200.9
501	CAPRICORN RIDGE WIND 4	17INR0061	CAPRIDG4_CR4	COKE	WIND-O	WEST	2008	121.5
502	CEDRO HILL WIND 1		CEDROHIL_CHW1	WEBB	WIND-O	SOUTH	2010	75.0
503	CEDRO HILL WIND 2		CEDROHIL_CHW2	WEBB	WIND-O	SOUTH	2010	75.0
504	CHALUPA WIND		CHALUPA_UNIT1	CAMERON	WIND-C	COASTAL	2021	173.3
505	CHAMPION WIND		CHAMPION_UNIT1	NOLAN	WIND-O	WEST	2008	126.5
506	CHAPMAN RANCH WIND IA (SANTA CRUZ)		SANTACRU_UNIT1	NUECES	WIND-C	COASTAL	2017	150.6
507	CHAPMAN RANCH WIND IB (SANTA CRUZ)		SANTACRU_UNIT2	NUECES	WIND-C	COASTAL	2017	98.4
508	COTTON PLAINS WIND		COTPLNS_COTTONPL	FLOYD	WIND-P	PANHANDLE	2017	50.4
509	DERMOTT WIND 1_1		DERMOTT_UNIT1	SCURRY	WIND-O	WEST	2017	126.5
510	DERMOTT WIND 1_2		DERMOTT_UNIT2	SCURRY	WIND-O	WEST	2017	126.5

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
511	DESERT SKY WIND 1	17INR0070	INDNENR_INDNENR	PECOS	WIND-O	WEST	2002	85.1
512	DESERT SKY WIND 2	17INR0070	INDNENR_INDNENR_2	PECOS	WIND-O	WEST	2002	85.1
513	DOUG COLBECK'S CORNER (CONWAY) A		GRANDVW1_COLA	CARSON	WIND-P	PANHANDLE	2016	100.2
514	DOUG COLBECK'S CORNER (CONWAY) B		GRANDVW1_COLB	CARSON	WIND-P	PANHANDLE	2016	100.2
515	EAST RAYMOND WIND (EL RAYO) U1		EL_RAYO_UNIT1	WILLACY	WIND-C	COASTAL	2021	98.0
516	EAST RAYMOND WIND (EL RAYO) U2		EL_RAYO_UNIT2	WILLACY	WIND-C	COASTAL	2021	96.0
517	ELBOW CREEK WIND		ELB_ELBCREEK	HOWARD	WIND-O	WEST	2008	118.7
518	ELECTRA WIND 1		DIGBY_UNIT1	WILBARGER	WIND-O	WEST	2017	98.9
519	ELECTRA WIND 2		DIGBY_UNIT2	WILBARGER	WIND-O	WEST	2017	131.1
520	ESPIRITU WIND		CHALUPA_UNIT2	CAMERON	WIND-C	COASTAL	2021	25.2
521	FALVEZ ASTRA WIND		ASTRA_UNIT1	RANDALL	WIND-P	PANHANDLE	2017	163.2
522	FLAT TOP WIND I		FTWIND_UNIT_1	MILLS	WIND-O	NORTH	2018	200.0
523	FLUVANNA RENEWABLE 1 A		FLUVANNA_UNIT1	SCURRY	WIND-O	WEST	2017	79.8
524	FLUVANNA RENEWABLE 1 B		FLUVANNA_UNIT2	SCURRY	WIND-O	WEST	2017	75.6
525	FOARD CITY WIND 1 A		FOARDCTY_UNIT1	FOARD	WIND-O	WEST	2019	186.5
526	FOARD CITY WIND 1 B		FOARDCTY_UNIT2	FOARD	WIND-O	WEST	2019	163.8
527	FOREST CREEK WIND		MCDLD_FCW1	GLASSCOCK	WIND-O	WEST	2007	124.2
528	GOAT WIND		GOAT_GOATWIND	STERLING	WIND-O	WEST	2008	80.0
529	GOAT WIND 2		GOAT_GOATWIN2	STERLING	WIND-O	WEST	2010	69.6
530	GOLDTHWAITE WIND 1		GWEC_GWEC_G1	MILLS	WIND-O	NORTH	2014	148.6
531	GOPHER CREEK WIND 1		GOPHER_UNIT1	BORDEN	WIND-O	WEST	2020	82.0
532	GOPHER CREEK WIND 2		GOPHER_UNIT2	BORDEN	WIND-O	WEST	2020	76.0
533	GRANDVIEW WIND 1 (CONWAY) GV1A		GRANDVW1_GV1A	CARSON	WIND-P	PANHANDLE	2014	107.4
534	GRANDVIEW WIND 1 (CONWAY) GV1B		GRANDVW1_GV1B	CARSON	WIND-P	PANHANDLE	2014	103.8
535	GREEN MOUNTAIN WIND (BRAZOS) U1	21INR0532	BRAZ_WND_WND1	SCURRY	WIND-O	WEST	2003	99.0
536	GREEN MOUNTAIN WIND (BRAZOS) U2	21INR0532	BRAZ_WND_WND2	SCURRY	WIND-O	WEST	2003	61.0
537	GREEN PASTURES WIND I		GPASTURE_WIND_I	BAYLOR	WIND-O	WEST	2015	150.0
538	GRIFFIN TRAIL WIND U1		GRIF_TRL_UNIT1	KNOX	WIND-O	WEST	2021	98.7
539	GRIFFIN TRAIL WIND U2		GRIF_TRL_UNIT2	KNOX	WIND-O	WEST	2021	126.9
540	GULF WIND I		TGW_T1	KENEDY	WIND-C	COASTAL	2021	141.6
541	GULF WIND II		TGW_T2	KENEDY	WIND-C	COASTAL	2021	141.6
542	GUNSIGHT MOUNTAIN WIND		GUNMTN_G1	HOWARD	WIND-O	WEST	2016	119.9
543	HACKBERRY WIND		HWF_HWFG1	SHACKELFORD	WIND-O	WEST	2008	163.5
544	HARBOR WIND		DG_NUECE_6UNITS	NUECES	WIND-C	COASTAL	2012	9.0
545	HEREFORD WIND G		HRFDWIND_WIND_G	DEAF SMITH	WIND-P	PANHANDLE	2015	99.9
546	HEREFORD WIND V		HRFDWIND_WIND_V	DEAF SMITH	WIND-P	PANHANDLE	2015	100.0
547	HICKMAN (SANTA RITA WIND) 1		HICKMAN_G1	REAGAN	WIND-O	WEST	2018	152.5
548	HICKMAN (SANTA RITA WIND) 2		HICKMAN_G2	REAGAN	WIND-O	WEST	2018	147.5
549	HIDALGO & STARR WIND 11		MIRASOLE_MIR11	HIDALGO	WIND-O	SOUTH	2016	52.0
550	HIDALGO & STARR WIND 12		MIRASOLE_MIR12	HIDALGO	WIND-O	SOUTH	2016	98.0
551	HIDALGO & STARR WIND 21		MIRASOLE_MIR21	HIDALGO	WIND-O	SOUTH	2016	100.0
552	HIDALGO II WIND		MIRASOLE_MIR13	HIDALGO	WIND-O	SOUTH	2021	50.4
553	HIGH LONESOME W 1A		HI_LONE_WGR1A	CROCKETT	WIND-O	WEST	2021	46.0
554	HIGH LONESOME W 1B		HI_LONE_WGR1B	CROCKETT	WIND-O	WEST	2021	52.0
555	HIGH LONESOME W 1C		HI_LONE_WGR1C	CROCKETT	WIND-O	WEST	2021	25.3
556	HIGH LONESOME W 2		HI_LONE_WGR2	CROCKETT	WIND-O	WEST	2021	122.5
557	HIGH LONESOME W 2A		HI_LONE_WGR2A	CROCKETT	WIND-O	WEST	2021	25.3
558	HIGH LONESOME W 3		HI_LONE_WGR3	CROCKETT	WIND-O	WEST	2021	127.6
559	HIGH LONESOME W 4		HI_LONE_WGR4	CROCKETT	WIND-O	WEST	2021	101.6
560	HORSE CREEK WIND 1		HORSECRK_UNIT1	HASKELL	WIND-O	WEST	2017	131.1
561	HORSE CREEK WIND 2		HORSECRK_UNIT2	HASKELL	WIND-O	WEST	2017	98.9
562	HORSE HOLLOW WIND 1	17INR0052	H_HOLLOW_WND1	TAYLOR	WIND-O	WEST	2005	230.0
563	HORSE HOLLOW WIND 2	17INR0053	HHOLLOW2_WIND1	TAYLOR	WIND-O	WEST	2006	184.0
564	HORSE HOLLOW WIND 3	17INR0053	HHOLLOW3_WND_1	TAYLOR	WIND-O	WEST	2006	241.4
565	HORSE HOLLOW WIND 4	17INR0053	HHOLLOW4_WND1	TAYLOR	WIND-O	WEST	2006	115.0
566	INADALE WIND 1		INDL_INADALE1	NOLAN	WIND-O	WEST	2008	95.0
567	INADALE WIND 2		INDL_INADALE2	NOLAN	WIND-O	WEST	2008	102.0
568	INDIAN MESA WIND		INDNNWP_INDNNWP2	PECOS	WIND-O	WEST	2001	91.8
569	JAVELINA I WIND 18		BORDAS_JAVEL18	WEBB	WIND-O	SOUTH	2015	19.7
570	JAVELINA I WIND 20		BORDAS_JAVEL20	WEBB	WIND-O	SOUTH	2015	230.0
571	JAVELINA II WIND 1		BORDAS2_JAVEL2_A	WEBB	WIND-O	SOUTH	2017	96.0
572	JAVELINA II WIND 2		BORDAS2_JAVEL2_B	WEBB	WIND-O	SOUTH	2017	74.0
573	JAVELINA II WIND 3		BORDAS2_JAVEL2_C	WEBB	WIND-O	SOUTH	2017	30.0
574	JUMBO ROAD WIND 1		HRFDWIND_JRDWIND1	DEAF SMITH	WIND-P	PANHANDLE	2015	146.2
575	JUMBO ROAD WIND 2		HRFDWIND_JRDWIND2	DEAF SMITH	WIND-P	PANHANDLE	2015	153.6
576	KARANKAWA WIND 1A		KARAKAW1_UNIT1	SAN PATRICIO	WIND-C	COASTAL	2019	103.3
577	KARANKAWA WIND 1B		KARAKAW1_UNIT2	SAN PATRICIO	WIND-C	COASTAL	2019	103.3
578	KARANKAWA WIND 2		KARAKAW2_UNIT3	SAN PATRICIO	WIND-C	COASTAL	2019	100.4
579	KEECHI WIND		KEECHI_U1	JACK	WIND-O	NORTH	2015	110.0
580	KING MOUNTAIN WIND (NE)		KING_NE_KINGNE	UPTON	WIND-O	WEST	2001	79.7
581	KING MOUNTAIN WIND (NW)		KING_NW_KINGNW	UPTON	WIND-O	WEST	2001	79.7
582	KING MOUNTAIN WIND (SE)		KING_SE_KINGSE	UPTON	WIND-O	WEST	2001	40.5
583	KING MOUNTAIN WIND (SW)		KING_SW_KINGSW	UPTON	WIND-O	WEST	2001	79.7
584	LANGFORD WIND POWER		LGD_LANGFORD	TOM GREEN	WIND-O	WEST	2009	160.0
585	LOCKETT WIND FARM		LOCKETT_UNIT1	WILBARGER	WIND-O	WEST	2019	183.7
586	LOGANS GAP WIND I U1		LGW_UNIT1	COMANCHE	WIND-O	NORTH	2015	106.3
587	LOGANS GAP WIND I U2		LGW_UNIT2	COMANCHE	WIND-O	NORTH	2015	103.8
588	LONE STAR WIND 1 (MESQUITE)		LNCRK_G83	SHACKELFORD	WIND-O	WEST	2006	194.0
589	LONE STAR WIND 2 (POST OAK) U1	22INR0479	LNCRK2_G871	SHACKELFORD	WIND-O	WEST	2007	98.0
590	LONE STAR WIND 2 (POST OAK) U2	22INR0479	LNCRK2_G872	SHACKELFORD	WIND-O	WEST	2007	100.0
591	LONGHORN WIND NORTH U1		LHORN_N_UNIT1	FLOYD	WIND-P	PANHANDLE	2015	100.0
592	LONGHORN WIND NORTH U2		LHORN_N_UNIT2	FLOYD	WIND-P	PANHANDLE	2015	100.0
593	LORAINE WINDPARK I		LONEWOLF_G1	MITCHELL	WIND-O	WEST	2010	48.0
594	LORAINE WINDPARK II		LONEWOLF_G2	MITCHELL	WIND-O	WEST	2010	51.0
595	LORAINE WINDPARK III		LONEWOLF_G3	MITCHELL	WIND-O	WEST	2011	25.5

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
596	LORAINE WINDPARK IV		LONEWOLF_G4	MITCHELL	WIND-O	WEST	2011	24.0
597	LOS VIENTOS III WIND		LV3_UNIT_1	STARR	WIND-O	SOUTH	2015	200.0
598	LOS VIENTOS IV WIND		LV4_UNIT_1	STARR	WIND-O	SOUTH	2016	200.0
599	LOS VIENTOS V WIND		LV5_UNIT_1	STARR	WIND-O	SOUTH	2016	110.0
600	LOS VIENTOS WIND I		LV1_LV1A	WILLACY	WIND-C	COASTAL	2013	200.1
601	LOS VIENTOS WIND II		LV2_LV2	WILLACY	WIND-C	COASTAL	2013	201.6
602	MAGIC VALLEY WIND (REDFISH) 1A		REDFISH_MV1A	WILLACY	WIND-C	COASTAL	2012	99.8
603	MAGIC VALLEY WIND (REDFISH) 1B		REDFISH_MV1B	WILLACY	WIND-C	COASTAL	2012	103.5
604	MARIAH DEL NORTE 1		MARIAH_NORTE1	PARMER	WIND-P	PANHANDLE	2017	115.2
605	MARIAH DEL NORTE 2		MARIAH_NORTE2	PARMER	WIND-P	PANHANDLE	2017	115.2
606	MCADOO WIND		MWEC_G1	DICKENS	WIND-P	PANHANDLE	2008	150.0
607	MESQUITE CREEK WIND 1		MESQCRK_WND1	DAWSON	WIND-O	WEST	2015	105.6
608	MESQUITE CREEK WIND 2		MESQCRK_WND2	DAWSON	WIND-O	WEST	2015	105.6
609	MIAMI WIND G1		MIAM1_G1	GRAY	WIND-P	PANHANDLE	2014	144.3
610	MIAMI WIND G2		MIAM1_G2	GRAY	WIND-P	PANHANDLE	2014	144.3
611	MIDWAY WIND		MIDWIND_UNIT1	SAN PATRICIO	WIND-C	COASTAL	2019	162.8
612	NIELS BOHR WIND A (BEARKAT WIND A)		NBOHR_UNIT1	GLASSCOCK	WIND-O	WEST	2018	196.6
613	NOTREES WIND 1		NWF_NWF1	WINKLER	WIND-O	WEST	2009	92.6
614	NOTREES WIND 2		NWF_NWF2	WINKLER	WIND-O	WEST	2009	60.0
615	OCOTILLO WIND		OWF_OWF	HOWARD	WIND-O	WEST	2008	58.8
616	OLD SETTLER WIND		COTPLNS_OLDSETLR	FLOYD	WIND-P	PANHANDLE	2017	151.2
617	OVEJA WIND U1		OVEJA_G1	IRION	WIND-O	WEST	2021	151.2
618	OVEJA WIND U2		OVEJA_G2	IRION	WIND-O	WEST	2021	151.2
619	PALMAS ALTAS WIND		PALMWIND_UNIT1	CAMERON	WIND-C	COASTAL	2020	144.9
620	PANHANDLE WIND 1 U1		PH1_UNIT1	CARSON	WIND-P	PANHANDLE	2014	109.2
621	PANHANDLE WIND 1 U2		PH1_UNIT2	CARSON	WIND-P	PANHANDLE	2014	109.2
622	PANHANDLE WIND 2 U1		PH2_UNIT1	CARSON	WIND-P	PANHANDLE	2014	94.2
623	PANHANDLE WIND 2 U2		PH2_UNIT2	CARSON	WIND-P	PANHANDLE	2014	96.6
624	PANTHER CREEK WIND 1		PC_NORTH_PANTHER1	HOWARD	WIND-O	WEST	2008	142.5
625	PANTHER CREEK WIND 2		PC_SOUTH_PANTHER2	HOWARD	WIND-O	WEST	2019	115.5
626	PANTHER CREEK WIND 3	21INR0449	PC_SOUTH_PANTHER3	HOWARD	WIND-O	WEST	2009	199.5
627	PAPALOTE CREEK WIND		PAP1_PAP1	SAN PATRICIO	WIND-C	COASTAL	2009	179.9
628	PAPALOTE CREEK WIND II		COTTON_PAP2	SAN PATRICIO	WIND-C	COASTAL	2010	200.1
629	PECOS WIND 1 (WOODWARD)		WOODWRD1_WOODWRD1	PECOS	WIND-O	WEST	2001	91.7
630	PECOS WIND 2 (WOODWARD)		WOODWRD2_WOODWRD2	PECOS	WIND-O	WEST	2001	86.0
631	PENASCAL WIND 1		PENA_UNIT1	KENEDY	WIND-C	COASTAL	2009	160.8
632	PENASCAL WIND 2		PENA_UNIT2	KENEDY	WIND-C	COASTAL	2009	141.6
633	PENASCAL WIND 3		PENA3_UNIT3	KENEDY	WIND-C	COASTAL	2011	100.8
634	PEYTON CREEK WIND		PEY_UNIT1	MATAGORDA	WIND-C	COASTAL	2020	151.2
635	PYRON WIND 1		PYR_PYRON1	NOLAN	WIND-O	WEST	2008	121.5
636	PYRON WIND 2		PYR_PYRON2	NOLAN	WIND-O	WEST	2008	127.5
637	RANCHERO WIND		RANCHERO_UNIT1	CROCKETT	WIND-O	WEST	2020	150.0
638	RANCHERO WIND		RANCHERO_UNIT2	CROCKETT	WIND-O	WEST	2020	150.0
639	RATTLESNAKE I WIND ENERGY CENTER G1		RSNAKE_G1	GLASSCOCK	WIND-O	WEST	2015	104.3
640	RATTLESNAKE I WIND ENERGY CENTER G2		RSNAKE_G2	GLASSCOCK	WIND-O	WEST	2015	103.0
641	RED CANYON WIND		RDCANYON_RDCNY1	BORDEN	WIND-O	WEST	2006	89.6
642	ROCK SPRINGS VAL VERDE WIND (FERMI) 1		FERMI_WIND1	VAL VERDE	WIND-O	WEST	2017	121.9
643	ROCK SPRINGS VAL VERDE WIND (FERMI) 2		FERMI_WIND2	VAL VERDE	WIND-O	WEST	2017	27.4
644	ROSCOE WIND		TKWSW1_ROSCOE	NOLAN	WIND-O	WEST	2008	114.0
645	ROSCOE WIND 2A		TKWSW1_ROSCOE2A	NOLAN	WIND-O	WEST	2008	95.0
646	ROUTE 66 WIND		ROUTE_66_WIND1	CARSON	WIND-P	PANHANDLE	2015	150.0
647	RTS 2 WIND (HEART OF TEXAS WIND) U1		RTS2_U1	MCCULLOCH	WIND-O	SOUTH	2021	89.9
648	RTS 2 WIND (HEART OF TEXAS WIND) U2		RTS2_U2	MCCULLOCH	WIND-O	SOUTH	2021	89.9
649	RTS WIND		RTS_U1	MCCULLOCH	WIND-O	SOUTH	2018	160.0
650	SALT FORK 1 WIND U1		SALTFORK_UNIT1	DONLEY	WIND-P	PANHANDLE	2017	64.0
651	SALT FORK 1 WIND U2		SALTFORK_UNIT2	DONLEY	WIND-P	PANHANDLE	2017	110.0
652	SAN ROMAN WIND		SANROMAN_WIND_1	CAMERON	WIND-C	COASTAL	2017	95.2
653	SAND BLUFF WIND	20INR0296	MCDLD_SBW1	GLASSCOCK	WIND-O	WEST	2008	90.0
654	SENATE WIND		SENATEWD_UNIT1	JACK	WIND-O	NORTH	2012	150.0
655	SENDERO WIND ENERGY		EXGNSND_WIND_1	JIM HOGG	WIND-O	SOUTH	2015	78.0
656	SEYMOUR HILLS WIND (S_HILLS WIND)		S_HILLS_UNIT1	BAYLOR	WIND-O	WEST	2019	30.2
657	SHAFFER (PATRIOT WIND/PETRONILLA)		SHAFFER_UNIT1	NUECES	WIND-C	COASTAL	2021	226.1
658	SHANNON WIND		SHANNONW_UNIT_1	CLAY	WIND-O	WEST	2015	204.1
659	SHERBINO 2 WIND	19INR0120	KEO_SHRBINO2	PECOS	WIND-O	WEST	2011	132.0
660	SILVER STAR WIND	18INR0064	FLTCK_SSI	ERATH	WIND-O	NORTH	2008	52.8
661	SOUTH PLAINS WIND 1 U1		SPLAIN1_WIND1	FLOYD	WIND-P	PANHANDLE	2015	102.0
662	SOUTH PLAINS WIND 1 U2		SPLAIN1_WIND2	FLOYD	WIND-P	PANHANDLE	2015	98.0
663	SOUTH PLAINS WIND 2 U1		SPLAIN2_WIND21	FLOYD	WIND-P	PANHANDLE	2016	148.5
664	SOUTH PLAINS WIND 2 U2		SPLAIN2_WIND22	FLOYD	WIND-P	PANHANDLE	2016	151.8
665	SOUTH TRENT WIND		STWF_T1	NOLAN	WIND-O	WEST	2008	98.2
666	SPINNING SPUR WIND TWO A		SSPURTWO_WIND_1	OLDHAM	WIND-P	PANHANDLE	2014	161.0
667	SPINNING SPUR WIND TWO B		SSPURTWO_SS3WIND2	OLDHAM	WIND-P	PANHANDLE	2015	98.0
668	SPINNING SPUR WIND TWO C		SSPURTWO_SS3WIND1	OLDHAM	WIND-P	PANHANDLE	2015	96.0
669	STANTON WIND ENERGY		SWEC_G1	MARTIN	WIND-O	WEST	2008	120.0
670	STELLA WIND		STELLA_UNIT1	KENEDY	WIND-C	COASTAL	2018	201.0
671	STEPHENS RANCH WIND 1		SRWE1_UNIT1	BORDEN	WIND-O	WEST	2014	211.2
672	STEPHENS RANCH WIND 2		SRWE1_SRWE2	BORDEN	WIND-O	WEST	2015	164.7
673	SWEETWATER WIND 1	18INR0073	SWEETWND_WND1	NOLAN	WIND-O	WEST	2003	42.5
674	SWEETWATER WIND 2A	17INR0068	SWEETWN2_WND24	NOLAN	WIND-O	WEST	2006	16.8
675	SWEETWATER WIND 2B	17INR0068	SWEETWN2_WND2	NOLAN	WIND-O	WEST	2004	110.8
676	SWEETWATER WIND 3A		SWEETWN3_WND3A	NOLAN	WIND-O	WEST	2011	33.6
677	SWEETWATER WIND 3B		SWEETWN3_WND3B	NOLAN	WIND-O	WEST	2011	118.6
678	SWEETWATER WIND 4-4A		SWEETWN4_WND4A	NOLAN	WIND-O	WEST	2007	125.0
679	SWEETWATER WIND 4-4B		SWEETWN4_WND4B	NOLAN	WIND-O	WEST	2007	112.0
680	SWEETWATER WIND 4-5		SWEETWN5_WND5	NOLAN	WIND-O	WEST	2007	85.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
681	TAHOKA WIND 1		TAHOKA_UNIT_1	LYNN	WIND-O	WEST	2019	150.0
682	TAHOKA WIND 2		TAHOKA_UNIT_2	LYNN	WIND-O	WEST	2019	150.0
683	TEXAS BIG SPRING WIND A		SGMTN_SIGNALMT	HOWARD	WIND-O	WEST	1999	27.7
684	TEXAS BIG SPRING WIND B		SGMTN_SIGNALM2	HOWARD	WIND-O	WEST	1999	6.6
685	TORRECILLAS WIND 1		TORR_UNIT1_25	WEBB	WIND-O	SOUTH	2019	150.0
686	TORRECILLAS WIND 2		TORR_UNIT2_23	WEBB	WIND-O	SOUTH	2019	23.0
687	TORRECILLAS WIND 3		TORR_UNIT2_25	WEBB	WIND-O	SOUTH	2019	127.5
688	TRENT WIND	17INR0069	TRENT_TRENT	NOLAN	WIND-O	WEST	2001	156.5
689	TRINITY HILLS WIND 1	20INR0019	TRINITY_TH1_BUS1	ARCHER	WIND-O	WEST	2012	103.4
690	TRINITY HILLS WIND 2	20INR0019	TRINITY_TH1_BUS2	ARCHER	WIND-O	WEST	2012	94.6
691	TSTC WEST TEXAS WIND		DG_ROSC2_1UNIT	NOLAN	WIND-O	WEST	2008	2.0
692	TURKEY TRACK WIND		TTWEC_G1	NOLAN	WIND-O	WEST	2008	169.5
693	TYLER BLUFF WIND		TYLRWIND_UNIT1	COOKE	WIND-O	NORTH	2017	125.6
694	VERA WIND 1		VERAWIND_UNIT1	KNOX	WIND-O	WEST	2021	12.0
695	VERA WIND 2		VERAWIND_UNIT2	KNOX	WIND-O	WEST	2021	7.2
696	VERA WIND 3		VERAWIND_UNIT3	KNOX	WIND-O	WEST	2021	100.8
697	VERA WIND 4		VERAWIND_UNIT4	KNOX	WIND-O	WEST	2021	22.0
698	VERA WIND 5		VERAWIND_UNIT5	KNOX	WIND-O	WEST	2021	100.8
699	VERTIGO WIND (FORMERLY GREEN PASTURES WIND 2)		VERTIGO_WIND_I	BAYLOR	WIND-O	WEST	2015	150.0
700	WAKE WIND 1		WAKEWE_G1	DICKENS	WIND-P	PANHANDLE	2016	114.9
701	WAKE WIND 2		WAKEWE_G2	DICKENS	WIND-P	PANHANDLE	2016	142.3
702	WEST RAYMOND (EL TRUENO) WIND U1		TRUENO_UNIT1	WILLACY	WIND-C	COASTAL	2021	116.6
703	WEST RAYMOND (EL TRUENO) WIND U2		TRUENO_UNIT2	WILLACY	WIND-C	COASTAL	2021	123.2
704	WHIRLWIND ENERGY		WEC_WECG1	FLOYD	WIND-P	PANHANDLE	2007	57.0
705	WHITETAIL WIND		EXGNWTL_WIND_1	WEBB	WIND-O	SOUTH	2012	92.3
706	WILLOW SPRINGS WIND A		SALVTION_UNIT1	HASKELL	WIND-O	WEST	2017	125.0
707	WILLOW SPRINGS WIND B		SALVTION_UNIT2	HASKELL	WIND-O	WEST	2017	125.0
708	WILSON RANCH (INFINITY LIVE OAK WIND)		WL_RANCH_UNIT1	SCHLEICHER	WIND-O	WEST	2020	199.5
709	WINDTHORST 2 WIND		WNDTHST2_UNIT1	ARCHER	WIND-O	WEST	2014	67.6
710	WKN MOZART WIND		MOZART_WIND_1	KENT	WIND-O	WEST	2012	30.0
711	WOLF RIDGE WIND	21INR0511	WHTTAIL_WR1	COOKE	WIND-O	NORTH	2008	112.5
712	**Operational Capacity Total (Wind)**							**28,206.7**
713								
714	Operational Wind Capacity Sub-total (Coastal Counties)		WIND_OPERATIONAL_C					4,444.9
715	Wind Peak Average Capacity Percentage (Coastal)		WIND_PEAK_PCT_C	%				47.0
716								
717	Operational Wind Capacity Sub-total (Panhandle Counties)		WIND_OPERATIONAL_P					4,407.7
718	Wind Peak Average Capacity Percentage (Panhandle)		WIND_PEAK_PCT_P	%				34.0
719								
720	Operational Wind Capacity Sub-total (Other Counties)		WIND_OPERATIONAL_O					19,354.1
721	Wind Peak Average Capacity Percentage (Other)		WIND_PEAK_PCT_O	%				20.0
722								
723	**Operational Resources (Wind) - Synchronized but not Approved for Commercial Operations**							
724	AQUILLA LAKE WIND U1	19INR0145	AQUILLA_U1_23	HILL	WIND-O	NORTH	2021	13.9
725	AQUILLA LAKE WIND U2	19INR0145	AQUILLA_U1_28	HILL	WIND-O	NORTH	2021	135.4
726	AQUILLA LAKE 2 WIND U1	20INR0256	AQUILLA_U2_23	HILL	WIND-O	NORTH	2021	7.0
727	AQUILLA LAKE 2 WIND U2	20INR0256	AQUILLA_U2_28	HILL	WIND-O	NORTH	2021	143.8
728	BAIRD NORTH WIND U1	20INR0083	BAIRDWND_UNIT1	CALLAHAN	WIND-O	WEST	2021	195
729	BAIRD NORTH WIND U2	20INR0083	BAIRDWND_UNIT2	CALLAHAN	WIND-O	WEST	2021	150
730	CACTUS FLATS WIND U1	16INR0086	CFLATS_U1	CONCHO	WIND-O	WEST	2021	148.4
731	COYOTE WIND U1	17INR0027b	COYOTE_W_UNIT1	SCURRY	WIND-O	WEST	2021	90
732	COYOTE WIND U2	17INR0027b	COYOTE_W_UNIT2	SCURRY	WIND-O	WEST	2021	26.6
733	COYOTE WIND U3	17INR0027b	COYOTE_W_UNIT3	SCURRY	WIND-O	WEST	2021	126
734	CRANELL WIND	19INR0112	CRANELL_UNIT1	REFUGIO	WIND-C	COASTAL	2021	220
735	HARALD (BEARKAT WIND B)	15INR0064b	HARALD_UNIT1	GLASSCOCK	WIND-O	WEST	2021	162.1
736	LAS MAJADAS WIND U1	17INR0035	LMAJADAS_UNIT1	WILLACY	WIND-C	COASTAL	2021	110
737	LAS MAJADAS WIND U2	17INR0035	LMAJADAS_UNIT2	WILLACY	WIND-C	COASTAL	2021	24
738	LAS MAJADAS WIND U3	17INR0035	LMAJADAS_UNIT3	WILLACY	WIND-C	COASTAL	2021	138.6
739	MARYNEAL WINDPOWER	18INR0031	MARYNEAL_UNIT1	NOLAN	WIND-O	WEST	2021	182.4
740	MAVERICK CREEK WIND WEST U1	20INR0045	MAVCRK_W_UNIT1	CONCHO	WIND-O	WEST	2021	201.6
741	MAVERICK CREEK WIND WEST U2	20INR0045	MAVCRK_W_UNIT2	CONCHO	WIND-O	WEST	2021	11.1
742	MAVERICK CREEK WIND WEST U3	20INR0045	MAVCRK_W_UNIT3	CONCHO	WIND-O	WEST	2021	33.6
743	MAVERICK CREEK WIND WEST U4	20INR0045	MAVCRK_W_UNIT4	CONCHO	WIND-O	WEST	2021	22.2
744	MAVERICK CREEK WIND EAST U1	20INR0046	MAVCRK_E_UNIT5	CONCHO	WIND-O	WEST	2021	71.4
745	MAVERICK CREEK WIND EAST U2	20INR0046	MAVCRK_E_UNIT6	CONCHO	WIND-O	WEST	2021	33.3
746	MAVERICK CREEK WIND EAST U3	20INR0046	MAVCRK_E_UNIT7	CONCHO	WIND-O	WEST	2021	22
747	MAVERICK CREEK WIND EAST U4	20INR0046	MAVCRK_E_UNIT8	CONCHO	WIND-O	WEST	2021	20
748	MAVERICK CREEK WIND EAST U5	20INR0046	MAVCRK_E_UNIT9	CONCHO	WIND-O	WEST	2021	76.8
749	MESTENO WIND	16INR0081	MESTENO_UNIT_1	STARR	WIND-O	SOUTH	2021	201.6
750	PRAIRIE HILL WIND U1	19INR0100	PHILLWND_UNIT1	MCLENNAN	WIND-O	NORTH	2021	153
751	PRAIRIE HILL WIND U2	19INR0100	PHILLWND_UNIT2	MCLENNAN	WIND-O	NORTH	2021	147
752	RELOJ DEL SOL WIND U1	17INR0025	RELOJ_UNIT1	ZAPATA	WIND-O	SOUTH	2021	55.4
753	RELOJ DEL SOL WIND U2	17INR0025	RELOJ_UNIT2	ZAPATA	WIND-O	SOUTH	2021	48
754	RELOJ DEL SOL WIND U3	17INR0025	RELOJ_UNIT3	ZAPATA	WIND-O	SOUTH	2021	83.1
755	RELOJ DEL SOL WIND U4	17INR0025	RELOJ_UNIT4	ZAPATA	WIND-O	SOUTH	2021	22.8
756	SAGE DRAW WIND U1	19INR0163	SAGEDRAW_UNIT1	LYNN	WIND-O	WEST	2020	169.2
757	SAGE DRAW WIND U2	19INR0163	SAGEDRAW_UNIT2	LYNN	WIND-O	WEST	2020	169.2
758	TG EAST WIND U1	19INR0052	TRUSGILL_UNIT1	KNOX	WIND-O	WEST	2022	42
759	TG EAST WIND U2	19INR0052	TRUSGILL_UNIT2	KNOX	WIND-O	WEST	2022	44.8
760	TG EAST WIND U3	19INR0052	TRUSGILL_UNIT3	KNOX	WIND-O	WEST	2022	42
761	TG EAST WIND U4	19INR0052	TRUSGILL_UNIT4	KNOX	WIND-O	WEST	2022	207.2
762	VENADO WIND U1	16INR0111	VENADO_UNIT1	STARR	WIND-O	SOUTH	2021	105
763	VENADO WIND U2	16INR0111	VENADO_UNIT2	STARR	WIND-O	SOUTH	2021	96.6
764	WESTERN TRAIL WIND (AJAX WIND) U1	20INR0142	AJAXWIND_UNIT1	WILBARGER	WIND-O	WEST	2021	225.6

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
765	WESTERN TRAIL WIND (AJAX WIND) U2	20INR0142	AJAXWIND_UNIT2	WILBARGER	WIND-O	WEST	2021	141
766	WHITE MESA WIND U1	19INR0128	WHMESA_UNIT1	CROCKETT	WIND-O	WEST	2021	152.3
767	WHITE MESA 2 WIND U1	21INR0521	WHMESA_UNIT2_23	COKE	WIND-O	WEST	2021	13.9
768	WHITE MESA 2 WIND U2	21INR0521	WHMESA_UNIT2_28	COKE	WIND-O	WEST	2021	183.3
769	WHITE MESA 2 WIND U3	21INR0521	WHMESA_UNIT3_23	COKE	WIND-O	WEST	2021	18.6
770	WHITE MESA 2 WIND U4	21INR0521	WHMESA_UNIT3_28	COKE	WIND-O	WEST	2021	132.5
771	WHITEHORSE WIND U1	19INR0080	WH_WIND_UNIT1	FISHER	WIND-O	WEST	2020	209.4
772	WHITEHORSE WIND U2	19INR0080	WH_WIND_UNIT2	FISHER	WIND-O	WEST	2020	209.5
773	WILDWIND U1	20INR0033	WILDWIND_UNIT1	COOKE	WIND-O	NORTH	2021	18.4
774	WILDWIND U2	20INR0033	WILDWIND_UNIT2	COOKE	WIND-O	NORTH	2021	48
775	WILDWIND U3	20INR0033	WILDWIND_UNIT3	COOKE	WIND-O	NORTH	2021	6.3
776	WILDWIND U4	20INR0033	WILDWIND_UNIT4	COOKE	WIND-O	NORTH	2021	54.6
777	WILDWIND U5	20INR0033	WILDWIND_UNIT5	COOKE	WIND-O	NORTH	2021	52.8
778	**Operational Capacity - Synchronized but not Approved for Commercial Operations Total (Wind)**							**5,418.3**
779								
780	Operational Wind Capacity Synchronized but not Approved for Commercial Opera		WIND_OPERATIONAL_C					492.6
781	Wind Peak Average Capacity Percentage (Coastal)		WIND_PEAK_PCT_C	%				47.0
782								
783	Operational Wind Capacity Synchronized but not Approved for Commercial Opera		WIND_OPERATIONAL_P					-
784	Wind Peak Average Capacity Percentage (Panhandle)		WIND_PEAK_PCT_P	%				34.0
785								
786	Operational Wind Capacity Synchronized but not Approved for Commercial Opera		WIND_OPERATIONAL_O					4,925.7
787	Wind Peak Average Capacity Percentage (Other)		WIND_PEAK_PCT_O	%				20.0
788								
789	**Operational Resources (Solar)**							
790	ACACIA SOLAR		ACACIA_UNIT_1	PRESIDIO	SOLAR	WEST	2012	10.0
791	ALEXIS SOLAR		DG_ALEXIS_ALEXIS	BROOKS	SOLAR	SOUTH	2019	10.0
792	AZURE SKY SOLAR U1		AZURE_SOLAR1	HASKELL	SOLAR	WEST	2021	74.9
793	AZURE SKY SOLAR U2		AZURE_SOLAR2	HASKELL	SOLAR	WEST	2021	153.5
794	BECK 1		DG_CECSOLAR_DG_BECK	BEXAR	SOLAR	SOUTH	2016	1.0
795	BHE SOLAR PEARL PROJECT (SIRIUS 2)		SIRIUS_UNIT2	PECOS	SOLAR	WEST	2017	49.1
796	BLUE WING 1 SOLAR		DG_BROOK_1UNIT	BEXAR	SOLAR	SOUTH	2010	7.6
797	BLUE WING 2 SOLAR		DG_ELMEN_1UNIT	BEXAR	SOLAR	SOUTH	2010	7.3
798	BLUEBELL SOLAR (CAPRICORN RIDGE SOLAR)		CAPRIDG4_BB_PV	STERLING	SOLAR	WEST	2019	30.0
799	BLUEBELL SOLAR II 1 (CAPRICORN RIDGE 4)		CAPRIDG4_BB2_PV1	STERLING	SOLAR	WEST	2021	100.0
800	BLUEBELL SOLAR II 2 (CAPRICORN RIDGE 4)		CAPRIDG4_BB2_PV2	STERLING	SOLAR	WEST	2021	15.0
801	BNB LAMESA SOLAR (PHASE I)		LMESASLR_UNIT1	DAWSON	SOLAR	WEST	2018	101.6
802	BNB LAMESA SOLAR (PHASE II)		LMESASLR_IVORY	DAWSON	SOLAR	WEST	2018	50.0
803	BOVINE SOLAR LLC		DG_BOVINE_BOVINE	AUSTIN	SOLAR	SOUTH	2018	5.0
804	BOVINE SOLAR LLC		DG_BOVINE2_BOVINE2	AUSTIN	SOLAR	SOUTH	2018	5.0
805	BRONSON SOLAR I		DG_BRNSN_BRNSN	FORT BEND	SOLAR	HOUSTON	2018	5.0
806	BRONSON SOLAR II		DG_BRNSN2_BRNSN2	FORT BEND	SOLAR	HOUSTON	2018	5.0
807	CASCADE SOLAR I		DG_CASCADE_CASCADE	WHARTON	SOLAR	SOUTH	2018	5.0
808	CASCADE SOLAR II		DG_CASCADE2_CASCADE2	WHARTON	SOLAR	SOUTH	2018	5.0
809	CASTLE GAP SOLAR		CASL_GAP_UNIT1	UPTON	SOLAR	WEST	2018	180.0
810	CATAN SOLAR		DG_CS10_CATAN	KARNES	SOLAR	SOUTH	2020	10.0
811	CHISUM SOLAR		DG_CHISUM_CHISUM	LAMAR	SOLAR	NORTH	2018	10.0
812	COMMERCE_SOLAR		DG_ X443PV1_SWRI_PV1	BEXAR	SOLAR	SOUTH	2019	5.0
813	CONIGLIO SOLAR		CONIGLIO_UNIT1	FANNIN	SOLAR	NORTH	2021	125.7
814	CORAZON SOLAR PHASE I		CORAZON_UNIT1	WEBB	SOLAR	SOUTH	2021	202.6
815	EAST BLACKLAND SOLAR (PFLUGERVILLE SOLAR)		E_BLACK_UNIT_1	TRAVIS	SOLAR	SOUTH	2021	144.0
816	EDDY SOLAR II		DG_EDDYII_EDDYII	MCLENNAN	SOLAR	NORTH	2018	10.0
817	EUNICE SOLAR U1		EUNICE_PV1	ANDREWS	SOLAR	WEST	2021	189.6
818	EUNICE SOLAR U2		EUNICE_PV2	ANDREWS	SOLAR	WEST	2021	237.1
819	FIFTH GENERATION SOLAR 1		DG_FIFTHGS1_FGSOLAR1	TRAVIS	SOLAR	SOUTH	2016	1.6
820	FOWLER RANCH		FWLR_SLR_UNIT1	CRANE	SOLAR	WEST	2020	150.0
821	FS BARILLA SOLAR-PECOS		HOVEY_UNIT1	PECOS	SOLAR	WEST	2015	22.0
822	FS EAST PECOS SOLAR		BOOTLEG_UNIT1	PECOS	SOLAR	WEST	2017	121.1
823	GALLOWAY 1 SOLAR		GALLOWAY_SOLAR1	CONCHO	SOLAR	WEST	2021	257.0
824	GREASEWOOD SOLAR 1		GREASWOD_UNIT1	PECOS	SOLAR	WEST	2021	124.6
825	GREASEWOOD SOLAR 2		GREASWOD_UNIT2	PECOS	SOLAR	WEST	2021	130.4
826	GRIFFIN SOLAR		DG_GRIFFIN_GRIFFIN	MCLENNAN	SOLAR	NORTH	2019	5.0
827	HIGHWAY 56		DG_HWY56_HWY56	GRAYSON	SOLAR	NORTH	2017	5.3
828	HM SEALY SOLAR 1		DG_SEALY_1UNIT	AUSTIN	SOLAR	SOUTH	2015	1.6
829	HOLSTEIN SOLAR 1		HOLSTEIN_SOLAR1	NOLAN	SOLAR	WEST	2020	102.2
830	HOLSTEIN SOLAR 2		HOLSTEIN_SOLAR2	NOLAN	SOLAR	WEST	2020	102.3
831	IMPACT SOLAR		IMPACT_UNIT1	LAMAR	SOLAR	NORTH	2021	198.5
832	JUNO SOLAR PHASE I		JUNO_UNIT1	BORDEN	SOLAR	WEST	2021	162.1
833	JUNO SOLAR PHASE II		JUNO_UNIT2	BORDEN	SOLAR	WEST	2021	143.5
834	KELLAM SOLAR		KELAM_SL_UNIT1	VAN ZANDT	SOLAR	NORTH	2020	59.8
835	LAMPWICK SOLAR		DG_LAMPWICK_LAMPWICK	MENARD	SOLAR	WEST	2019	7.5
836	LAPETUS SOLAR		LAPETUS_UNIT_1	ANDREWS	SOLAR	WEST	2020	100.7
837	LEON		DG_LEON_LEON	HUNT	SOLAR	NORTH	2017	10.0
838	LILY SOLAR		LILY_SOLAR1	KAUFMAN	SOLAR	NORTH	2021	147.6
839	MARLIN		DG_MARLIN_MARLIN	FALLS	SOLAR	NORTH	2017	5.3
840	MARS SOLAR (DG)		DG_MARS_MARS	WEBB	SOLAR	SOUTH	2019	10.0
841	NORTH GAINESVILLE		DG_NGNSVL_NGAINESV	COOKE	SOLAR	NORTH	2017	5.2
842	OBERON SOLAR		OBERON_UNIT_1	ECTOR	SOLAR	WEST	2020	180.0
843	OCI ALAMO 1 SOLAR		OCI_ALM1_UNIT1	BEXAR	SOLAR	SOUTH	2013	39.2
844	OCI ALAMO 2 SOLAR-ST. HEDWIG		DG_STHWG_UNIT1	BEXAR	SOLAR	SOUTH	2014	4.4
845	OCI ALAMO 3-WALZEM SOLAR		DG_WALZM_UNIT1	BEXAR	SOLAR	SOUTH	2014	5.5
846	OCI ALAMO 4 SOLAR-BRACKETVILLE		ECLIPSE_UNIT1	KINNEY	SOLAR	SOUTH	2014	37.6
847	OCI ALAMO 5 (DOWNIE RANCH)		HELIOS_UNIT1	UVALDE	SOLAR	SOUTH	2015	100.0
848	OCI ALAMO 6 (SIRIUS/WEST TEXAS)		SIRIUS_UNIT1	PECOS	SOLAR	WEST	2017	110.2
849	OCI ALAMO 7 (PAINT CREEK)		SOLARA_UNIT1	HASKELL	SOLAR	WEST	2016	112.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
850	PHOEBE SOLAR 1		PHOEBE_UNIT1	WINKLER	SOLAR	WEST	2019	125.1
851	PHOEBE SOLAR 2		PHOEBE_UNIT2	WINKLER	SOLAR	WEST	2019	128.1
852	PHOENIX SOLAR		PHOENIX_UNIT1	FANNIN	SOLAR	NORTH	2021	83.9
853	POWERFIN KINGSBERY		DG_PFK_PFKPV	TRAVIS	SOLAR	SOUTH	2017	2.6
854	PROSPERO SOLAR 1 U1		PROSPERO_UNIT1	ANDREWS	SOLAR	WEST	2020	153.6
855	PROSPERO SOLAR 1 U2		PROSPERO_UNIT2	ANDREWS	SOLAR	WEST	2020	150.0
856	PROSPERO SOLAR 2 U1		PRSPERO2_UNIT1	ANDREWS	SOLAR	WEST	2021	126.5
857	PROSPERO SOLAR 2 U2		PRSPERO2_UNIT2	ANDREWS	SOLAR	WEST	2021	126.4
858	QUEEN SOLAR PHASE I		QUEEN_SL_SOLAR1	UPTON	SOLAR	WEST	2020	102.5
859	QUEEN SOLAR PHASE I		QUEEN_SL_SOLAR2	UPTON	SOLAR	WEST	2020	102.5
860	QUEEN SOLAR PHASE II		QUEEN_SL_SOLAR3	UPTON	SOLAR	WEST	2020	97.5
861	QUEEN SOLAR PHASE II		QUEEN_SL_SOLAR4	UPTON	SOLAR	WEST	2020	107.5
862	RAMBLER SOLAR		RAMBLER_UNIT1	TOM GREEN	SOLAR	WEST	2020	200.0
863	RE ROSEROCK SOLAR 1		REROCK_UNIT1	PECOS	SOLAR	WEST	2016	78.8
864	RE ROSEROCK SOLAR 2		REROCK_UNIT2	PECOS	SOLAR	WEST	2016	78.8
865	REDBARN SOLAR 1 (RE MAPLEWOOD 2A SOLAR)		REDBARN_UNIT_1	PECOS	SOLAR	WEST	2021	222.0
866	REDBARN SOLAR 2 (RE MAPLEWOOD 2B SOLAR)		REDBARN_UNIT_2	PECOS	SOLAR	WEST	2021	28.0
867	RENEWABLE ENERGY ALTERNATIVES-CCS1		DG_COSERVSS_CSS1	DENTON	SOLAR	NORTH	2015	2.0
868	RIGGINS (SE BUCKTHORN WESTEX SOLAR)		RIGGINS_UNIT1	PECOS	SOLAR	WEST	2018	150.0
869	RIPPEY SOLAR		RIPPEY_UNIT1	COOKE	SOLAR	NORTH	2020	59.8
870	SOLAIREHOLMAN 1		LASSO_UNIT1	BREWSTER	SOLAR	WEST	2018	50.0
871	SP-TX-12-PHASE B		SPTX12B_UNIT1	UPTON	SOLAR	WEST	2017	157.5
872	STERLING		DG_STRLING_STRLING	HUNT	SOLAR	NORTH	2018	10.0
873	SUNEDISON RABEL ROAD SOLAR		DG_VALL1_1UNIT	BEXAR	SOLAR	SOUTH	2012	9.9
874	SUNEDISON VALLEY ROAD SOLAR		DG_VALL2_1UNIT	BEXAR	SOLAR	SOUTH	2012	9.9
875	SUNEDISON CPS3 SOMERSET 1 SOLAR		DG_SOME1_1UNIT	BEXAR	SOLAR	SOUTH	2012	5.6
876	SUNEDISON SOMERSET 2 SOLAR		DG_SOME2_1UNIT	BEXAR	SOLAR	SOUTH	2012	5.0
877	TAYGETE SOLAR 1 U1		TAYGETE_UNIT1	PECOS	SOLAR	WEST	2021	125.9
878	TAYGETE SOLAR 1 U2		TAYGETE_UNIT2	PECOS	SOLAR	WEST	2021	128.9
879	WAGYU SOLAR		WGU_UNIT1	BRAZORIA	SOLAR	COASTAL	2021	120.0
880	WALNUT SPRINGS		DG_WLNTSPRG_1UNIT	BOSQUE	SOLAR	NORTH	2016	10.0
881	WAYMARK SOLAR		WAYMARK_UNIT1	UPTON	SOLAR	WEST	2018	182.0
882	WEBBERVILLE SOLAR		WEBBER_S_WSP1	TRAVIS	SOLAR	SOUTH	2011	26.7
883	WEST MOORE II		DG_WMOOREII_WMOOREII	GRAYSON	SOLAR	NORTH	2018	5.0
884	WEST OF PECOS SOLAR		W_PECOS_UNIT1	REEVES	SOLAR	WEST	2019	100.0
885	WHITESBORO		DG_WBORO_WHTSBORO	GRAYSON	SOLAR	NORTH	2017	5.0
886	WHITESBORO II		DG_WBOROII_WHBOROII	GRAYSON	SOLAR	NORTH	2017	5.0
887	WHITEWRIGHT		DG_WHTRT_WHTRGHT	FANNIN	SOLAR	NORTH	2017	10.0
888	WHITNEY SOLAR		DG_WHITNEY_SOLAR1	BOSQUE	SOLAR	NORTH	2017	10.0
889	YELLOW JACKET SOLAR		DG_YLWJACKET_YLWJACI	BOSQUE	SOLAR	NORTH	2018	5.0
890	**Operational Capacity Total (Solar)**							**7,323.2**
891	Solar Peak Average Capacity Percentage		SOLAR_PEAK_PCT	%				7.0
892								
893	**Operational Resources (Solar) - Synchronized but not Approved for Commercial Operations**							
894	ANSON SOLAR U1	19INR0081	ANSON1_UNIT1	JONES	SOLAR	WEST	2021	100.0
895	ANSON SOLAR U2	19INR0081	ANSON1_UNIT2	JONES	SOLAR	WEST	2021	100.0
896	ARAGORN SOLAR	19INR0088	ARAGORN_UNIT1	CULBERSON	SOLAR	WEST	2021	185.0
897	ELARA SOLAR	21INR0276	ELARA_SL_UNIT1	FRIO	SOLAR	SOUTH	2021	132.4
898	LONG DRAW SOLAR U1	18INR0055	LGDRAW_S_UNIT1_1	BORDEN	SOLAR	WEST	2021	98.5
899	LONG DRAW SOLAR U2	18INR0055	LGDRAW_S_UNIT1_2	BORDEN	SOLAR	WEST	2021	128.3
900	MISAE SOLAR U1	18INR0045	MISAE_UNIT1	CHILDRESS	SOLAR	PANHANDLE	2021	121.4
901	MISAE SOLAR U2	18INR0045	MISAE_UNIT2	CHILDRESS	SOLAR	PANHANDLE	2021	118.6
902	PLAINVIEW SOLAR (RAMSEY SOLAR) U1	20INR0130	PLN_UNIT1	WHARTON	SOLAR	SOUTH	2022	257.0
903	PLAINVIEW SOLAR (RAMSEY SOLAR) U2	20INR0130	PLN_UNIT2	WHARTON	SOLAR	SOUTH	2022	257.0
904	SAMSON SOLAR 1 U1	21INR0221	SAMSON_1_G1	LAMAR	SOLAR	NORTH	2022	125.0
905	SAMSON SOLAR 1 U2	21INR0221	SAMSON_1_G2	LAMAR	SOLAR	NORTH	2022	125.0
906	SAMSON SOLAR 3 U1	21INR0491	SAMSON_3_G1	LAMAR	SOLAR	NORTH	2022	125.0
907	SAMSON SOLAR 3 U2	21INR0491	SAMSON_3_G2	LAMAR	SOLAR	NORTH	2022	125.0
908	STRATEGIC SOLAR 1	20INR0081	STRATEGC_UNIT1	ELLIS	SOLAR	NORTH	2021	136.8
909	TITAN SOLAR (IP TITAN) U1	20INR0032	TI_SOLAR_UNIT1	CULBERSON	SOLAR	WEST	2021	136.8
910	TITAN SOLAR (IP TITAN) U2	20INR0032	TI_SOLAR_UNIT2	CULBERSON	SOLAR	WEST	2021	131.1
911	VISION SOLAR 1	20INR0082	VISION_UNIT1	NAVARRO	SOLAR	NORTH	2021	129.2
912	**Operational Capacity - Synchronized but not Approved for Commercial Operations Total (Solar)**							**2,532.1**
913	Solar Peak Average Capacity Percentage		SOLAR_PEAK_PCT	%				7.0
914								
915	**Operational Resources (Storage)**							
916	BAT CAVE		BATCAVE_BES1	MASON	STORAGE	SOUTH	2021	100.5
917	BLUE SUMMIT BATTERY		BLSUMMIT_BATTERY	WILBARGER	STORAGE	WEST	2017	30.0
918	BRP ALVIN (DGR)		BRPALVIN_UNIT1	BRAZORIA	STORAGE	COASTAL	2020	10.0
919	BRP ANGELTON (DGR)		BRPANGLE_UNIT1	BRAZORIA	STORAGE	COASTAL	2020	10.0
920	BRP BRAZORIA (DGR)		BRP_BRAZ_UNIT1	BRAZORIA	STORAGE	COASTAL	2020	10.0
921	BRP DICKINSON (DGR)		BRP_DIKN_UNIT1	GALVESTON	STORAGE	HOUSTON	2021	10.0
922	BRP HEIGHTS (DGR)		BRHEIGHT_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	10.0
923	BRP LOOP 463 (DGR)		BRP_4631_UNIT1	VICTORIA	STORAGE	SOUTH	2021	9.9
924	BRP MAGNOLIA (DGR)		BRPMAGNO_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	10.0
925	BRP ODESSA SW (DGR)		BRPODESA_UNIT1	ECTOR	STORAGE	WEST	2020	10.0
926	BRP RANCHTOWN (DGR)		BRP_RNC1_UNIT1	BEXAR	STORAGE	SOUTH	2021	10.0
927	BRP SWEENY (DGR)		BRP_SWNY_UNIT1	BRAZORIA	STORAGE	COASTAL	2021	10.0
928	CASTLE GAP BATTERY		CASL_GAP_BATTERY1	UPTON	STORAGE	WEST	2019	9.9
929	CHISHOLM GRID		CHISMGRD_BES1	TARRANT	STORAGE	NORTH	2021	101.7
930	COMMERCE ST ESS (DGR)		X443ESS1_SWRI	BEXAR	STORAGE	SOUTH	2020	10.0
931	EUNICE STORAGE		EUNICE_BES1	ANDREWS	STORAGE	WEST	2021	40.3
932	FLAT TOP BATTERY (DGR)		FLTBES_BESS1	REEVES	STORAGE	WEST	2020	9.9
933	FLOWER VALLEY BATTERY (DGR)		FLVABES1_FLATU1	REEVES	STORAGE	WEST	2021	9.9
934	GAMBIT BATTERY		GAMBIT_BESS1	BRAZORIA	STORAGE	COASTAL	2021	100.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
935	HOEFSROAD BESS (DGR)		HRBESS_BESS	REEVES	STORAGE	WEST	2021	2.0
936	INADALE ESS		INDL_ESS	NOLAN	STORAGE	WEST	2018	9.9
937	JOHNSON CITY BESS (DGR)		JC_BAT_UNIT_1	BLANCO	STORAGE	SOUTH	2020	2.3
938	KINGSBERY ENERGY STORAGE SYSTEM		DG_KB_ESS_KB_ESS	TRAVIS	STORAGE	SOUTH	2017	1.5
939	LILY STORAGE		LILY_BESS1	KAUFMAN	STORAGE	NORTH	2021	51.7
940	MU ENERGY STORAGE SYSTEM		DG_MU_ESS_MU_ESS	TRAVIS	STORAGE	SOUTH	2018	1.5
941	NOTREES BATTERY FACILITY		NWF_NBS	WINKLER	STORAGE	WEST	2013	33.7
942	NORTH FORK		NF_BRP_BES1	WILLIAMSON	STORAGE	SOUTH	2021	100.5
943	OCI ALAMO 1		OCI_ALM1_ASTRO1	BEXAR	STORAGE	SOUTH	2016	1.0
944	PORT LAVACA BATTERY (DGR)		PTLBES_BESS1	CALHOUN	STORAGE	COASTAL	2020	9.9
945	PROSPECT STORAGE (DGR)		WCOLLDG_BSS_U1	BRAZORIA	STORAGE	COASTAL	2020	9.9
946	PYRON ESS		PYR_ESS	SCURRY	STORAGE	WEST	2018	9.9
947	RABBIT HILL ENERGY STORAGE PROJECT (DGR)		RHESS2_ESS_1	WILLIAMSON	STORAGE	SOUTH	2020	9.9
948	SNYDER (DGR)		SNY_BESS_UNIT1	SCURRY	STORAGE	WEST	2021	9.9
949	SWEETWATER BESS (DGR)		SWT_BESS_UNIT1	NOLAN	STORAGE	WEST	2021	9.9
950	SWOOSE BATTERY (DGR)		SWOOSE1_SWOOSEU1	WARD	STORAGE	WEST	2021	9.9
951	TOS BATTERY STORAGE (DGR)		TOSBATT_UNIT1	MIDLAND	STORAGE	WEST	2017	2.0
952	TOYAH POWER STATION (DGR)		TOYAH_BESS	REEVES	STORAGE	WEST	2021	9.9
953	TRIPLE BUTTE (DGR)		TRIPBUT1_BELU1	PECOS	STORAGE	WEST	2021	7.5
954	WESTOVER BESS (DGR)		WOV_BESS_UNIT1	ECTOR	STORAGE	WEST	2021	9.9
955	WORSHAM BATTERY (DGR)		WRSBES_BESS1	REEVES	STORAGE	WEST	2020	9.9
956	YOUNICOS FACILITY		DG_YOUNICOS_YINC1_1	TRAVIS	STORAGE	SOUTH	2015	2.0
957	**Operational Capacity Total (Storage)**							**826.7**
958	Storage Peak Average Capacity Percentage		STORAGE_PEAK_PCT	%				0.0
959								
960	**Operational Resources (Storage) - Synchronized but not Approved for Commercial Operations**							
961	AZURE SKY BESS	21INR0476	AZURE_BESS1	HASKELL	STORAGE	WEST	2021	77.6
962	BRP PUEBLO I (DGR)		BRP_PBL1_UNIT1	MAVERICK	STORAGE	SOUTH	2021	9.9
963	BRP PUEBLO II (DGR)		BRP_PBL2_UNIT1	MAVERICK	STORAGE	SOUTH	2020	10.0
964	BRP ZAPATA I (DGR)		BRP_ZPT1_UNIT1	ZAPATA	STORAGE	SOUTH	2020	10.0
965	BRP ZAPATA II (DGR)		BRP_ZPT2_UNIT1	ZAPATA	STORAGE	SOUTH	2021	9.9
966	CROSSETT POWER U1	21INR0510	CROSSETT_BES1	CRANE	STORAGE	WEST	2021	100.0
967	CROSSETT POWER U2	21INR0510	CROSSETT_BES2	CRANE	STORAGE	WEST	2021	100.0
968	**Operational Capacity - Synchronized but not Approved for Commercial Operations Total (Storage)**							**317.4**
969	Storage Peak Average Capacity Percentage		STORAGE_PEAK_PCT	%				0.0
970								
971	Reliability Must-Run (RMR) Capacity		RMR_CAP_CONT		GAS			-
972								
973	Capacity Pending Retirement		PENDRETIRE_CAP					-
974								
975	**Non-Synchronous Tie Resources**							
976	EAST TIE		DC_E	FANNIN	OTHER	NORTH		600.0
977	NORTH TIE		DC_N	WILBARGER	OTHER	WEST		220.0
978	LAREDO VFT TIE		DC_L	WEBB	OTHER	SOUTH		100.0
979	SHARYLAND RAILROAD TIE		DC_R	HIDALGO	OTHER	SOUTH		300.0
980	**Non-Synchronous Ties Total**							**1,220.0**
981	Non-Synchronous Ties Peak Average Capacity Percentage		DCTIE_PEAK_PCT	%				59.0
982								
983	**Planned Thermal Resources with Executed SGIA, Air Permit, GHG Permit and Proof of Adequate Water Supplies**							
984	AIR PRODUCTS GCA	21INR0012		GALVESTON	GAS-ST	HOUSTON	2022	-
985	RABBS POWER STATION	20INR0221		FORT BEND	GAS-GT	HOUSTON	2022	-
986	CHAMON 2	19INR0056		HARRIS	GAS-GT	HOUSTON	2022	-
987	BEACHWOOD POWER STATION (MARK ONE)	22INR0369		BRAZORIA	GAS-GT	COASTAL	2022	-
988	**Planned Thermal Resources Total (Nuclear, Coal, Gas, Biomass)**							**-**
989								
990	**Planned Wind Resources with Executed SGIA**							
991	ANCHOR WIND	21INR0387		EASTLAND	WIND-O	NORTH	2021	-
992	ANCHOR WIND II	21INR0539		EASTLAND	WIND-O	NORTH	2021	-
993	APOGEE WIND	21INR0467		HASKELL	WIND-O	WEST	2022	-
994	APPALOOSA RUN WIND_	20INR0249		UPTON	WIND-O	WEST	2023	-
995	BLACKJACK CREEK WIND	20INR0068		BEE	WIND-O	SOUTH	2022	-
996	BOARD CREEK WP	21INR0324		NAVARRO	WIND-O	NORTH	2022	-
997	CANYON WIND	18INR0030		SCURRY	WIND-O	WEST	2022	-
998	CAROL WIND	20INR0217		POTTER	WIND-P	PANHANDLE	2022	-
999	CRAWFISH	19INR0177		WHARTON	WIND-O	SOUTH	2022	-
1000	EDMONDSON RANCH WIND	18INR0043		GLASSCOCK	WIND-O	WEST	2022	-
1001	EL ALGODON ALTO W	15INR0034		SAN PATRICIO	WIND-C	COASTAL	2022	-
1002	EL SUAZ RANCH	20INR0097		WILLACY	WIND-C	COASTAL	2022	-
1003	FOXTROT WIND	20INR0129		KARNES	WIND-O	SOUTH	2022	-
1004	GOODNIGHT WIND	14INR0033		ARMSTRONG	WIND-P	PANHANDLE	2023	-
1005	HART WIND	16INR0033		CASTRO	WIND-P	PANHANDLE	2022	-
1006	HUTT WIND	21INR0005		MIDLAND	WIND-O	WEST	2023	-
1007	KONTIKI 1 WIND (ERIK)	19INR0099a		GLASSCOCK	WIND-O	WEST	2023	-
1008	KONTIKI 2 WIND (ERNEST)	19INR0099b		GLASSCOCK	WIND-O	WEST	2023	-
1009	LOMA PINTA WIND	16INR0112		LA SALLE	WIND-O	SOUTH	2022	-
1010	LORAINE WINDPARK PHASE III	18INR0068		MITCHELL	WIND-O	WEST	2023	-
1011	MONARCH CREEK WIND	21INR0263		THROCKMORTON	WIND-O	WEST	2023	-
1012	MONTE ALTO I	19INR0022		WILLACY	WIND-C	COASTAL	2022	-
1013	PRIDDY WIND	16INR0085		MILLS	WIND-O	NORTH	2021	-
1014	ROADRUNNER CROSSING WIND 1	19INR0117		EASTLAND	WIND-O	NORTH	2022	-
1015	SHEEP CREEK WIND	21INR0325		CALLAHAN	WIND-O	WEST	2023	-
1016	VORTEX WIND	20INR0120		THROCKMORTON	WIND-O	WEST	2022	-
1017	**Planned Capacity Total (Wind)**							**-**
1018								
1019	Planned Wind Capacity Sub-total (Coastal Counties)		WIND_PLANNED_C					-

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
1020	Wind Peak Average Capacity Percentage (Coastal)		WIND_PL_PEAK_PCT_C					47.0
1021								
1022	Planned Wind Capacity Sub-total (Panhandle Counties)		WIND_PLANNED_P					-
1023	Wind Peak Average Capacity Percentage (Panhandle)		WIND_PL_PEAK_PCT_P					34.0
1024								
1025	Planned Wind Capacity Sub-total (Other counties)		WIND_PLANNED_O					-
1026	Wind Peak Average Capacity Percentage (Other)		WIND_PL_PEAK_PCT_O					20.0
1027								
1028	**Planned Solar Resources with Executed SGIA**							
1029	7V SOLAR	21INR0351		FAYETTE	SOLAR	SOUTH	2023	-
1030	ANDROMEDA SOLAR	22INR0412		SCURRY	SOLAR	WEST	2023	-
1031	ARMADILLO SOLAR	21INR0421		NAVARRO	SOLAR	NORTH	2022	-
1032	ARROYO SOLAR	20INR0086		CAMERON	SOLAR	COASTAL	2022	-
1033	BIG STAR SOLAR	21INR0413		BASTROP	SOLAR	SOUTH	2022	-
1034	BLUE JAY SOLAR	19INR0085		GRIMES	SOLAR	NORTH	2022	-
1035	BLUE JAY SOLAR II	21INR0538		GRIMES	SOLAR	NORTH	2022	-
1036	BPL FILES SOLAR	20INR0164		HILL	SOLAR	NORTH	2022	-
1037	BRASS FORK SOLAR	22INR0270		HASKELL	SOLAR	WEST	2023	-
1038	BRAVEPOST SOLAR	20INR0053		TOM GREEN	SOLAR	WEST	2023	-
1039	BRIGHT ARROW SOLAR	22INR0242		HOPKINS	SOLAR	NORTH	2022	-
1040	BRIGHTSIDE SOLAR	18INR0060		BEE	SOLAR	SOUTH	2021	-
1041	BUFFALO CREEK (OLD 300 SOLAR CENTER)	21INR0406		FORT BEND	SOLAR	HOUSTON	2022	-
1042	CAROL SOLAR	21INR0274		POTTER	SOLAR	PANHANDLE	2022	-
1043	CASTRO SOLAR	20INR0050		CASTRO	SOLAR	PANHANDLE	2023	-
1044	CHARGER SOLAR	23INR0047		REFUGIO	SOLAR	COASTAL	2023	-
1045	CONCHO VALLEY SOLAR	21INR0384		TOM GREEN	SOLAR	WEST	2022	-
1046	CORAZON SOLAR PHASE II	22INR0257		WEBB	SOLAR	SOUTH	2025	-
1047	COTTONWOOD BAYOU	19INR0134		BRAZORIA	SOLAR	COASTAL	2023	-
1048	COTTONWOOD BAYOU SOLAR II	21INR0228		BRAZORIA	SOLAR	COASTAL	2023	-
1049	CROWDED STAR SOLAR	20INR0241		JONES	SOLAR	WEST	2023	-
1050	CROWDED STAR SOLAR II	22INR0274		JONES	SOLAR	WEST	2023	-
1051	CUTLASS SOLAR	19INR0131		FORT BEND	SOLAR	HOUSTON	2022	-
1052	DANCIGER SOLAR	20INR0098		BRAZORIA	SOLAR	COASTAL	2022	-
1053	DANISH FIELDS SOLAR I	20INR0069		WHARTON	SOLAR	SOUTH	2023	-
1054	DANISH FIELDS SOLAR II	21INR0016		WHARTON	SOLAR	SOUTH	2023	-
1055	DANISH FIELDS SOLAR III	21INR0017		WHARTON	SOLAR	SOUTH	2023	-
1056	DAWN SOLAR	20INR0255		DEAF SMITH	SOLAR	PANHANDLE	2023	-
1057	DELILAH SOLAR 1	22INR0202		LAMAR	SOLAR	NORTH	2022	-
1058	DELILAH SOLAR 2	22INR0203		LAMAR	SOLAR	NORTH	2023	-
1059	DELILAH SOLAR 3	23INR0042		LAMAR	SOLAR	NORTH	2023	-
1060	DELILAH SOLAR 4	23INR0060		LAMAR	SOLAR	NORTH	2023	-
1061	DILEO SOLAR	22INR0359		BOSQUE	SOLAR	NORTH	2023	-
1062	EIFFEL SOLAR	22INR0223		LAMAR	SOLAR	NORTH	2023	-
1063	ELLIS SOLAR	21INR0493		ELLIS	SOLAR	NORTH	2022	-
1064	EMERALD GROVE SOLAR (PECOS SOLAR POWEI	15INR0059		PECOS	SOLAR	WEST	2022	-
1065	EQUINOX SOLAR 1	21INR0226		STARR	SOLAR	SOUTH	2025	-
1066	ESTONIAN SOLAR FARM	22INR0335		DELTA	SOLAR	NORTH	2023	-
1067	FAGUS SOLAR PARK (MISAE SOLAR II)	20INR0091		CHILDRESS	SOLAR	PANHANDLE	2023	-
1068	FENCE POST SOLAR	22INR0404		NAVARRO	SOLAR	NORTH	2022	-
1069	FIGHTING JAYS SOLAR	21INR0278		FORT BEND	SOLAR	HOUSTON	2022	-
1070	FORT BEND SOLAR	18INR0053		FORT BEND	SOLAR	HOUSTON	2022	-
1071	FRYE SOLAR	20INR0080		SWISHER	SOLAR	PANHANDLE	2023	-
1072	GALLOWAY 2 SOLAR	21INR0431		CONCHO	SOLAR	WEST	2023	-
1073	GOLINDA SOLAR	21INR0434		FALLS	SOLAR	NORTH	2023	-
1074	GRANDSLAM SOLAR	21INR0391		ATASCOSA	SOLAR	SOUTH	2022	-
1075	GREEN HOLLY SOLAR	21INR0021		DAWSON	SOLAR	WEST	2023	-
1076	GRIZZLY RIDGE SOLAR	21INR0375		HAMILTON	SOLAR	NORTH	2022	-
1077	HAYHURST TEXAS SOLAR	22INR0363		CULBERSON	SOLAR	WEST	2023	-
1078	HOPKINS SOLAR	20INR0210		HOPKINS	SOLAR	NORTH	2022	-
1079	HORIZON SOLAR	21INR0261		FRIO	SOLAR	SOUTH	2023	-
1080	INDIGO SOLAR	21INR0031		FISHER	SOLAR	WEST	2021	-
1081	JACKALOPE SOLAR	23INR0180		SAN PATRICIO	SOLAR	COASTAL	2023	-
1082	JADE SOLAR	22INR0360		SCURRY	SOLAR	WEST	2022	-
1083	LONG POINT SOLAR	19INR0042		BRAZORIA	SOLAR	COASTAL	2023	-
1084	LONGBOW SOLAR	20INR0026		BRAZORIA	SOLAR	COASTAL	2022	-
1085	LUNIS CREEK SOLAR 1	21INR0344		JACKSON	SOLAR	SOUTH	2023	-
1086	MALEZA SOLAR	21INR0220		WHARTON	SOLAR	SOUTH	2023	-
1087	MARKUM SOLAR	20INR0230		MCLENNAN	SOLAR	NORTH	2022	-
1088	MERCURY SOLAR	21INR0257		HILL	SOLAR	NORTH	2022	-
1089	MERCURY II SOLAR	23INR0153		HILL	SOLAR	NORTH	2022	-
1090	MORROW LAKE SOLAR	19INR0155		FRIO	SOLAR	SOUTH	2023	-
1091	MUSTANG CREEK SOLAR	18INR0050		JACKSON	SOLAR	SOUTH	2022	-
1092	MYRTLE SOLAR	19INR0041		BRAZORIA	SOLAR	COASTAL	2022	-
1093	NABATOTO SOLAR NORTH	21INR0428		LEON	SOLAR	NORTH	2023	-
1094	NAZARETH SOLAR	16INR0049		CASTRO	SOLAR	PANHANDLE	2023	-
1095	NEBULA SOLAR (RAYOS DEL SOL)	19INR0045		CAMERON	SOLAR	COASTAL	2022	-
1096	NOBLE SOLAR	20INR0214		DENTON	SOLAR	NORTH	2022	-
1097	NORTON SOLAR	19INR0035		RUNNELS	SOLAR	WEST	2023	-
1098	OLD HICKORY SOLAR	20INR0236		JACKSON	SOLAR	SOUTH	2023	-
1099	OYSTERCATCHER SOLAR	21INR0362		ELLIS	SOLAR	NORTH	2024	-
1100	PEREGRINE SOLAR	22INR0283		GOLIAD	SOLAR	SOUTH	2023	-
1101	PINE FOREST SOLAR	20INR0203		HOPKINS	SOLAR	NORTH	2022	-
1102	PISGAH RIDGE SOLAR	22INR0254		NAVARRO	SOLAR	NORTH	2022	-
1103	PITTS DUDIK SOLAR	20INR0074		HILL	SOLAR	NORTH	2022	-
1104	RADIAN SOLAR	21INR0205		BROWN	SOLAR	NORTH	2022	-

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
1105	RED HOLLY SOLAR	21INR0022		DAWSON	SOLAR	WEST	2023	-
1106	RED-TAILED HAWK SOLAR	21INR0389		WHARTON	SOLAR	SOUTH	2023	-
1107	ROSELAND SOLAR	20INR0205		FALLS	SOLAR	NORTH	2022	-
1108	ROSELAND SOLAR II	22INR0506		FALLS	SOLAR	NORTH	2022	-
1109	ROWLAND SOLAR II	22INR0482		FORT BEND	SOLAR	HOUSTON	2022	-
1110	SAMSON SOLAR 2	21INR0490		LAMAR	SOLAR	NORTH	2023	-
1111	SBRANCH SOLAR PROJECT	22INR0205		WHARTON	SOLAR	SOUTH	2022	-
1112	SCHOOLHOUSE SOLAR	22INR0211		LEE	SOLAR	SOUTH	2023	-
1113	SECOND DIVISION SOLAR	20INR0248		BRAZORIA	SOLAR	COASTAL	2022	-
1114	SHAKES SOLAR	19INR0073		ZAVALA	SOLAR	SOUTH	2022	-
1115	SIGNAL SOLAR	20INR0208		HUNT	SOLAR	NORTH	2023	-
1116	SODA LAKE SOLAR 2	20INR0143		CRANE	SOLAR	WEST	2023	-
1117	SOLEMIO	19INR0093		HOPKINS	SOLAR	NORTH	2023	-
1118	SPACE CITY SOLAR	21INR0341		WHARTON	SOLAR	SOUTH	2022	-
1119	SPANISH CROWN	21INR0323		FALLS	SOLAR	NORTH	2023	-
1120	SPARTA SOLAR	22INR0352		BEE	SOLAR	SOUTH	2022	-
1121	STARR SOLAR RANCH	20INR0216		STARR	SOLAR	SOUTH	2023	-
1122	SUN VALLEY	19INR0169		HILL	SOLAR	NORTH	2022	-
1123	SUNRAY	21INR0395		UVALDE	SOLAR	SOUTH	2023	-
1124	TAYGETE II SOLAR	21INR0233		PECOS	SOLAR	WEST	2021	-
1125	TEXANA SOLAR	18INR0058		WHARTON	SOLAR	SOUTH	2022	-
1126	TEXAS SOLAR NOVA	19INR0001		KENT	SOLAR	WEST	2023	-
1127	TRES BAHIAS SOLAR	20INR0266		CALHOUN	SOLAR	COASTAL	2022	-
1128	VANCOURT SOLAR	21INR0213		CAMERON	SOLAR	COASTAL	2022	-
1129	WESTORIA SOLAR	20INR0101		BRAZORIA	SOLAR	COASTAL	2022	-
1130	ZIER SOLAR	21INR0019		KINNEY	SOLAR	SOUTH	2023	-
1131	**Planned Capacity Total (Solar)**							**-**
1132	Solar Peak Average Capacity Percentage		SOLAR_PL_PEAK_PCT					7.0
1133								
1134	**Planned Storage Resources with Executed SGIA**							
1135	ANCHOR BESS	21INR0474		EASTLAND	STORAGE	NORTH	2021	-
1136	BIG STAR STORAGE	21INR0469		BASTROP	STORAGE	SOUTH	2022	-
1137	BRP ANTLIA BESS	22INR0349		VAL VERDE	STORAGE	WEST	2023	-
1138	BRP CACHI BESS	22INR0388		GUADALUPE	STORAGE	SOUTH	2022	-
1139	BRP CARINA BESS	22INR0353		NUECES	STORAGE	COASTAL	2023	-
1140	BRP DICKENS BESS	22INR0325		DICKENS	STORAGE	PANHANDLE	2022	-
1141	BRP HYDRA BESS	22INR0372		PECOS	STORAGE	WEST	2022	-
1142	BRP LOPENO (DGR)		BRP_LOP1_UNIT1	ZAPATA	STORAGE	SOUTH	2021	9.9
1143	BRP PALEO BESS	22INR0322		HALE	STORAGE	PANHANDLE	2022	-
1144	BRP PAVO BESS	22INR0384		PECOS	STORAGE	WEST	2022	-
1145	BRP TORTOLAS BESS	23INR0072		BRAZORIA	STORAGE	COASTAL	2022	-
1146	BYRD RANCH STORAGE	21INR0281		BRAZORIA	STORAGE	COASTAL	2022	-
1147	DECORDOVA BESS ADDITION	21INR0459		HOOD	STORAGE	NORTH	2022	-
1148	ENDURANCE PARK STORAGE	21INR0479		SCURRY	STORAGE	WEST	2022	-
1149	ESTONIAN ENERGY STORAGE	22INR0336		DELTA	STORAGE	NORTH	2023	-
1150	FENCE POST BESS	22INR0405		NAVARRO	STORAGE	NORTH	2022	-
1151	FLOWER VALLEY II BATT	21INR0496		REEVES	STORAGE	WEST	2021	-
1152	GREEN HOLLY STORAGE	21INR0029		DAWSON	STORAGE	WEST	2023	-
1153	HIGH LONESOME BESS	20INR0280		CROCKETT	STORAGE	WEST	2022	-
1154	HOUSE MOUNTAIN 2 BATT	22INR0485		BREWSTER	STORAGE	WEST	2023	-
1155	IGNACIO GRID	21INR0522		HIDALGO	STORAGE	SOUTH	2022	-
1156	MADERO GRID	21INR0244		HIDALGO	STORAGE	SOUTH	2022	-
1157	NOBLE STORAGE	22INR0436		DENTON	STORAGE	NORTH	2022	-
1158	QUEEN BESS	20INR0281		UPTON	STORAGE	WEST	2022	-
1159	RED HOLLY STORAGE	21INR0033		DAWSON	STORAGE	WEST	2023	-
1160	REPUBLIC ROAD STORAGE	21INR0460		ROBERTSON	STORAGE	NORTH	2021	50.0
1161	RIVER VALLEY STORAGE 1	20INR0290		WILLIAMSON	STORAGE	SOUTH	2022	-
1162	RIVER VALLEY STORAGE 2	20INR0293		WILLIAMSON	STORAGE	SOUTH	2022	-
1163	ROUGHNECK STORAGE	19INR0176		BRAZORIA	STORAGE	COASTAL	2021	-
1164	RYAN ENERGY STORAGE	20INR0246		CORYELL	STORAGE	NORTH	2023	-
1165	SILICON HILL STORAGE	20INR0291		TRAVIS	STORAGE	SOUTH	2022	-
1166	SP TX-12B BESS	21INR0357		UPTON	STORAGE	WEST	2021	-
1167	SWOOSE II	21INR0497		WARD	STORAGE	WEST	2022	-
1168	VORTEX BESS	21INR0473		THROCKMORTON	STORAGE	WEST	2022	-
1169	WOLF TANK STORAGE	22INR0551		WEBB	STORAGE	SOUTH	2022	-
1170	**Planned Capacity Total (Storage)**							**59.9**
1171	Storage Peak Average Capacity Percentage		STORAGE_PL_PEAK_PCT					0.0
1172								
1173	**Inactive Planned Resources**							
1174	AGATE SOLAR	20INR0023		ELLIS	SOLAR	NORTH	2020	60.0
1175	BIG SAMPSON WIND	16INR0104		CROCKETT	WIND-O	WEST	2023	-
1176	INERTIA BESS	22INR0328		HASKELL	STORAGE	WEST	2022	-
1177	INERTIA BESS 2	22INR0375		HASKELL	STORAGE	WEST	2022	-
1178	INERTIA SOLAR	22INR0374		HASKELL	SOLAR	WEST	2022	-
1179	INERTIA WIND	22INR0326		HASKELL	WIND-O	WEST	2022	-
1180	MARIAH DEL ESTE	13INR0010a		PARMER	WIND-P	PANHANDLE	2020	152.5
1181	NORTHDRAW WIND	13INR0025		RANDALL	WIND-P	PANHANDLE	2020	150.0
1182	PANHANDLE WIND 3	14INR0030c		CARSON	WIND-P	PANHANDLE	2022	-
1183	RODEO SOLAR	19INR0103		ANDREWS	SOLAR	WEST	2022	-
1184	RUETER SOLAR	20INR0202		BOSQUE	SOLAR	NORTH	2022	-
1185	SPINEL SOLAR	20INR0025		MEDINA	SOLAR	SOUTH	2024	-
1186	TYSON NICK SOLAR	20INR0222		LAMAR	SOLAR	NORTH	2023	-
1187	**Inactive Planned Capacity Total**							**362.5**
1188								
1189	**Seasonal Mothballed Resources**							

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	CAPACITY (MW)
1190	GREGORY POWER PARTNERS GT1 (AS OF 5/1/2020, AVAILABLE 5/1 THROU		LGE_LGE_GT1	SAN PATRICIO	GAS-CC	COASTAL	2000	158.0
1191	GREGORY POWER PARTNERS GT2 (AS OF 5/1/2020, AVAILABLE 5/1 THROU		LGE_LGE_GT2	SAN PATRICIO	GAS-CC	COASTAL	2000	158.0
1192	GREGORY POWER PARTNERS STG (AS OF 5/1/2020,AVAILABLE 5/1 THROU		LGE_LGE_STG	SAN PATRICIO	GAS-CC	COASTAL	2000	75.0
1193	**Total Seasonal Mothballed Capacity**							**391.0**
1194								
1195	**Mothballed Resources**							
1196	J T DEELY U1 (AS OF 12/31/2018)		CALAVERS_JTD1_M	BEXAR	COAL	SOUTH	1977	430.0
1197	J T DEELY U2 (AS OF 12/31/2018)		CALAVERS_JTD2_M	BEXAR	COAL	SOUTH	1978	420.0
1198	**Total Mothballed Capacity**							**850.0**
1199								
1200	**Retiring Resources Unavailable to ERCOT (since last CDR/SARA)**							
1201	**Total Retiring Capacity**							**-**

Notes:

Capacity changes due to planned repower/upgrade projects are reflected in the operational units' ratings upon receipt and ERCOT approval of updated resource registration system information. Interconnection requests for existing resources that involve MW capacity changes are indicated with a code in the “Generation Interconnection Project Code” column.

Although seasonal capacity ratings for battery energy storage systems are reported above, the ratings are not included in the operational/planned capacity formulae. These resources are assumed to provide Ancillary Services rather than sustained capacity available to meet system peak loads.

Unit Names with a (DGR) suffix are Distribution Generation Resources. Units rated 10 MW or less currently do not go through the GINR application process.

The capacities of planned projects that have been approved for Initial Synchronization at the time of report creation are assumed to be available for the season regardless of their projected Commercial Operations Dates.

Planned projects for which maximum seasonal sustained capacity ratings have been provided are used in lieu of capacities entered into the online Resource Integration and Ongoing Operations - Interconnection Services (RIOO-IS) system.

Seasonal Assessment of Resource Adequacy for the ERCOT Region

Background

The Seasonal Assessment of Resource Adequacy (SARA) report is a deterministic approach to considering the impact of potential variables that may affect the sufficiency of installed resources to meet the peak electrical demand on the ERCOT System during a particular season.

The standard approach to assessing resource adequacy for one or more years into the future is to account for projected load and resources on a normalized basis and to require sufficient reserves (resources in excess of peak demand, on this normalized basis) to cover the uncertainty in peak demand and resource availability to meet a probabilistic reliability standard.

For seasonal assessments that look ahead less than a year, specific information may be available (for example, an anticipated common-mode event such as a system-wide heat wave) which can be used to consider the range of resource adequacy outcomes in a more deterministic manner.

The SARA report focuses on the availability of sufficient operating reserves to avoid emergency actions such as deployment of voluntary load reduction resources. It uses operating reserve thresholds of 2,300 and 1,000 MW, respectively, to indicate the risk that an Energy Emergency Alert Level 1 (EEA1) and Level 3 (EEA3) may be triggered during the time of the forecasted seasonal peak load. These threshold levels are intended to be roughly analogous to the 2,300 and 1,000 MW Physical Responsive Capability (PRC) thresholds for EEA1 and EEA3 with controlled outages ordered by ERCOT, respectively. However, PRC is a real-time capability measure for Resources that can quickly respond to system disturbances. In contrast, the SARA operating reserve reflects additional capability assumed to be available before energy emergency procedures are initiated, such as from Resources qualified to provide non-spinning reserves. Additionally, the amount of operating reserves available may increase relative to what is included in the SARA report due to the market responding to wholesale market price increases and anticipated capacity scarcity conditions. Given these considerations, ERCOT believes that the 2,300 and 1,000 MW reserve capacity thresholds are reasonable indicators for the risk of Energy Emergency Alerts given the uncertainties in predicting system conditions months in advance.

The SARA report is intended to illustrate the range of resource adequacy outcomes that might occur. It serves as a situational awareness tool for ERCOT operational planning purposes, and helps fulfill the "extreme weather" resource adequacy assessment requirement per Public Utility Commission of Texas rule 25.362(i)(2)(H). In addition to a base scenario, several other scenarios are developed by varying the value of load forecast and resource availability parameters. The variations in these parameters are based on historic ranges of the parameter values, known changes expected in the near-term, or reasonable assumptions regarding potential future events.

Thermal Outage Accounting

Directly comparing SARA thermal unplanned (previously "forced") outage scenario capacity with outage amounts listed in ERCOT outage reports — such as the Unplanned Resource Outages Report — will yield misleading results. The reason is that the SARA report consists of multiple resource availability line items, and thermal outages for certain resource types are reflected elsewhere in the SARA reports rather than the thermal outage scenario line items. As a result, the SARA thermal outage scenario amounts will always be less than what is typically shown in other outage reports. The main differences include the following:

- Outages for Private Use Network (PUN) generators are incorporated in the line item called “Capacity from Private Use Networks.” This is an aggregate estimate of the amount of capacity available for the ERCOT grid during the highest 20 seasonal hourly demands for the last three years and incorporates average generator outage amounts over those hourly intervals. Additionally, the aggregate estimate reflects PUN owner decisions to supply power to their industrial loads versus export to the grid. PUN outages are thus already reflected in the SARA available resource capacity estimate.

- Extended outages are reported in the SARA Capacities tab in a line item called “Operational Capacity Unavailable due to Extended Outage or Derate.” Extended Outages are those forced outages that are expected to last a minimum of 180 days as reported by the resource owner via submission of a Notice of Suspension of Operations (NSO) form. These outages are thus already reflected in the SARA available resource capacity estimate.

- The capacity of Switchable Generation Resources (SWGRs) that are assumed to serve a neighboring grid for the season is deducted from available resource capacity, so outages associated with these SWGRs are not reflected anywhere in the SARA report.

To more closely align the SARA with other outage reports based on ERCOT Outage Scheduler data, a modification was made to the treatment of outages classified as *Unavoidable Extensions*, or UEs. UEs are defined as "a Planned or Maintenance Outage that is not completed within the ERCOT-approved timeframe and extended." For past SARA reports, if the original outage was classified as Planned in the Outage Scheduler, then the UE would continue to be classified as Planned. If the original outage was classified as Forced, then the UE would continue to be classified as Forced. In contrast, for other ERCOT outage reports, UE outages are all classified as Forced (Unplanned). SARA reports now treat all UEs as Unplanned. While this category change does not impact the total base outage amount, it does increase the high and extreme unplanned thermal adjustments used in several risk scenarios.

Thermal Unplanned Outage Reduction Impact of the October 2021 Electric Weatherization Standard

For the thermal outage reduction, ERCOT determined individual reductions for three outage categories: acute outages, other outages not associated with natural gas shortages (non-acute outages), and outages associated with natural gas shortages. The derivation of the outages for these three categories are described below.

The starting point for calculating expected thermal unplanned outage reductions was to determine the maximum hourly outage amount experienced during Winter Storm Uri given that this event is serving as the new benchmark for weatherization improvements and other winter preparedness activities. For this purpose, ERCOT used "Request for Information" outage data as well as Outage Scheduler data and the established SARA reporting process for compiling and excluding certain outages as described above. This maximum amount, 25,541 MW, occurred on 2/15/2021, hour-ending 11:00 pm.

ERCOT defined certain outages during Winter Storm Uri as "acute." The assumption was that owners of the affected units would report these units to the PUCT and ERCOT as fully compliant with the Electric Weatherization Standard. This outage category constitutes “weather-related” outages as identified in ERCOT’s "April report on Causes of Generator Outages and Derates During the February 2021 Extreme Cold Weather Event." Acute outages are defined as those lasting at least 12 hours and involve full or partial outages of at least 90% of the units’ installed capacities. The highest hourly amount of such acute outages was 8,508 MW, and occurred on 2/15/2021, hour-ending 1:00 pm. This amount is associated with 28 units. ERCOT applied a success factor of 90% to account for (1) imperfect effectiveness of weatherization measures, (2) weatherization implementation delays, and (3) outages caused by factors not addressed by current winter preparedness activities. The resulting unplanned outage reduction is 7,657 MW.

Next, ERCOT assumed that the remaining non-acute outages—excluding those associated with gas shortages—would only be partially compliant with the Standard; specifically, generation owners would report a significant amount of good cause exceptions, and a certain amount of the exceptions would not be addressed in time for the highest-risk months of the winter (January and February). The amount of the non-acute outages was 13,769 MW. ERCOT assumed that 60% of the non-acute outages would be successfully avoided, or 8,261 MW. This success factor accounts for weatherization compliance deficiencies, implementation delays, and imperfect effectiveness of weatherization measures. Note that while fuel security improvements (e.g., onsite fuel storage and dual-fuel conversion) are not explicitly addressed, the outage reduction amounts described above could reflect implementation of those measures.

For thermal outages associated with natural gas shortages, ERCOT applied a similar success factor to the outage amount, which is 3,264 MW. This amount reflects the 2/15/2021 daily outage peak that occurred at hour-ending 11:00 PM. ERCOT assumed that 40% of the gas shortage outages would be successfully avoided, or 1,306 MW. This success factor is lower than the 60% applied to non-acute outages because weatherization efforts by gas supply and pipeline operators are currently voluntary, although the Texas Railroad Commission (RRC) has committed to conduct on-site visits to assess operator preparedness. For a list of the weatherization best practices that the RRC encourages operators to implement, see the Notice on "Preparation by Operators for Winter 2021-2022," available at: https://rrc.texas.gov/media/r5dbn5b2/2021-nto_preparation-by-operators-for-winter_2021-2022_mlb_10-6-2021.pdf.

The final step was to determine the overall percentage reduction in thermal outages, 67%. This percentage is the sum of the three outage reduction amounts described above (7,657 MW, 8,261 MW, and 1,306 MW) divided by the outage starting point, 25,541 MW. This percentage is applied to the High and Extreme Thermal Outage adjustment amounts for the applicable risk scenarios.

It is instructive to compare the 68% outage reduction percentage with the reduction percentage observed after the February 2011 extreme weather event. Relative to the 2011 event, frozen instrumentation-related outages decreased by an average of 74% for the subsequent three coldest winter days (1/6/2014, 1/7/2017, and 1/17/2018). Based on outage data used for SARA scenario development, average winter unplanned outages fell by 47% between the 2011 event and the January 2014 extreme event.

Wind and Solar Outage Reduction Impact of the October 2021 Electric Weatherization Standard

For wind resources, ERCOT used a 60% success factor to be applied to the wind outage amount not associated with icing and low temperature exceedances during Winter Storm Uri (1,435 MW). The fleet-wide 26% winter capacity contribution was then applied to determine the avoided wind outages at the time of the daily winter peak load, 224 MW. Based on filed comments from turbine manufacturers for the Texas Public Utility Commission's rulemaking to establish the Weatherization Standard (Project #51840), there appears to be little prospect that retrofit de-icing and anti-icing technologies will be implemented any time soon due to the lack of product offerings and proven cost-effectiveness for the Texas power market.

For solar resources, the impact of weatherization on outage improvements is small. There was only 498 MW of solar outages during the hour used to derive the outage reduction assumptions (2/15/2021, hour-ending 1:00 PM). After accounting for the 7% solar capacity contribution plus widespread clould cover assumed to occur during the storm's peak, the outage reduction is negligible and not accounted for in the SARA risk scenarios.