Release Date: May 3, 2016

FINAL
Seasonal Assessment of Resource Adequacy for the ERCOT Region (SARA)
Summer 2016

SUMMARY

The ERCOT Region is expected to have sufficient installed generating capacity to serve peak demands given expected weather conditions for the upcoming summer season (June - September 2016). This capacity is also sufficient given expected weather combined with either extremely low wind output or extreme outages.

This SARA report includes a 70,588 MW summer peak load forecast that reflects the same expectations for average weather that ERCOT assumed for the preliminary SARA report. Total generation resource capacity is estimated at 78,434 MW, which includes 736 MW of planned capacity additions (about 680 MW of thermal capacity and 55 MW of renewables based on summer peak-hour ratings). As with the preliminary report, this final report reflects use of an 80% summer peak average capacity contribution for solar resources. Note that capacity for two units—the PHR Peakers gas-fired plant and Baffin Wind—is excluded from the report because these facilities are now expected to be available later in the summer. Such treatment is consistent with past practice in SARA reports.

Total generation capacity also reflects 416 MW of additional mothballed capacity and a decrease of 512 MW in planned capacity relative to the amounts reported in the preliminary summer SARA report. The new mothball capacity includes the 371 MW Greens Bayou 5 unit, which is undergoing review for transmission system reliability impacts. (Note that ERCOT has initially determined that this unit may be needed for Reliability Must–Run Service. ERCOT's final determination will be made by May 28, 2016). The final summer unit outage forecast is 3,171 MW, developed from historical summer season outage data gathered since the start of the Texas Nodal Market in December 2010.

At this time, ERCOT does not anticipate changes to available generation capacity for the summer season due to compliance with environmental regulations, and continues to monitor implementation and consults with generation resource owners on their regulatory compliance plans.

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Forecasted Capacity and Demand

Operational Resources (Thermal and Hydro), MW	65,916	Based on current Seasonal Maximum Sustainable Limits reported through the unit registration process
Switchable Capacity Total, MW	3,496	Installed capacity of units that can interconnect with other Regions and are available to ERCOT
less Switchable Capacity Unavailable to ERCOT, MW	(300)	Based on survey responses of Switchable Resource owners
Mothball Resources, MW	805	Based on seasonal Mothball units plus Probability of Return responses of Mothball Resource owners
Private Use Network Capacity Contribution, MW	4,266	Average capability of the top 20 hours in the summer peak seasons for the past three years (2012-2014)
Non-Coastal Wind Resources Capacity Contribution, MW	1,693	Based on 12% of installed capacity for non-coastal wind resources per ERCOT Nodal Protocols Section 3.2.6.2.2
Coastal Wind Resources Capacity Contribution, MW	1,015	Based on 55% of installed capacity for coastal wind resources per ERCOT Nodal Protocols Section 3.2.6.2.2
Solar Utility-Scale, Peak Average Capacity Contribution, MW	230	Based on 80% of rated capacity for solar resources per Nodal Protocols Section 3.2.6.2.2
RMR Resources to be under Contract, MW	0	No RMR Resources currently under contract
Non-Synchronous Ties Capacity Contribution, MW	577	Average capability of the top 20 hours in the summer peak seasons for the past three years (2013-2015)
Planned Thermal Resources with Signed IA, Air Permits and Water Rights, MW	680	Based on in-service dates provided by developers of generation resources
Planned Non-Coastal Wind with signed IA , MW	49	Based on in-service dates provided by developers of generation resources and 12% of installed capacity for non-coastal wind resources
Planned Coastal Wind with signed IA , MW	0	Based on in-service dates provided by developers of generation resources and 55% of installed capacity for coastal wind resources
Planned Solar Utility-Scale with signed IA, MW	6	Based on 80% of rated capacity for solar resources per Nodal Protocols Section 3.2.6.2.2
[a] Total Resources, MW	78,434	
[b] Peak Demand, MW	70,588	Based on normal weather from 2002-2014
[c] Reserve Capacity [a - b], MW	7,846	

Range of Potential Risks

	Forecasted Summer Season Peak Load	Extreme Load / Typical Generation Outages	Extreme Load / Low Wind Output	Extreme Load / Extreme Generation Outages	
Seasonal Load Adjustment	-	2,754	2,754	2,754	Based on extreme weather forecast using 2011 weather data.
Typical Maintenance Outages	324	324	324	324	Based on historical average of planned outages during daily peak hours for June through September weekdays (starting in August 2010).
Typical Forced Outages, Thermal	2,847	2,847	2,847	2,847	Based on historical average of forced outages during daily peak hours for June through September weekdays (starting in August 2010).
90th Percentile Forced Outages, Thermal	-	-	-	1,802	Based on historical forced outages assuming a 90% confidence interval
Low Wind Output Adjustment	-	-	2,078	-	Based on the 10th percentile of wind output associated with the 100 highest Net Load hours (Load minus wind output) for the 2013-2015 summer Peak Load seasons; this wind output level is 679 MW.
[d] Total Uses of Reserve Capacity	3,171	5,925	8,003	7,727	
[e] Capacity Available for Operating Reserves (c-d), MW	4,675	1,921	(157)	119	
Less than 2,300 MW indicates risk of EEA1					

Unit Capacities - Summer

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
	Operational Resources (Thermal)							
4	COMANCHE PEAK U1		CPSES_UNIT1	SOMERVELL	NUCLEAR	NORTH	1990	1,205.0
5	COMANCHE PEAK U2		CPSES_UNIT2	SOMERVELL	NUCLEAR	NORTH	1993	1,195.0
6	SOUTH TEXAS U1		STP_STP_G1	MATAGORDA	NUCLEAR	COASTAL	1988	1,286.0
7	SOUTH TEXAS U2		STP_STP_G2	MATAGORDA	NUCLEAR	COASTAL	1989	1,295.0
8	BIG BROWN U1		BBSES_UNIT1	FREESTONE	COAL	NORTH	1971	606.0
9	BIG BROWN U2		BBSES_UNIT2	FREESTONE	COAL	NORTH	1972	602.0
10	COLETO CREEK		COLETO_COLETOG1	GOLIAD	COAL	SOUTH	1980	660.0
11	FAYETTE POWER U1		FPPYD1_FPP_G1	FAYETTE	COAL	SOUTH	1979	604.0
12	FAYETTE POWER U2		FPPYD1_FPP_G2	FAYETTE	COAL	SOUTH	1980	599.0
13	FAYETTE POWER U3		FPPYD2_FPP_G3	FAYETTE	COAL	SOUTH	1988	437.0
14	GIBBONS CREEK U1		GIBCRK_GIB_CRG1	GRIMES	COAL	NORTH	1983	470.0
15	J K SPRUCE U1		CALAVERS_JKS1	BEXAR	COAL	SOUTH	1992	560.0
16	J K SPRUCE U2		CALAVERS_JKS2	BEXAR	COAL	SOUTH	2010	775.0
17	J T DEELY U1		CALAVERS_JTD1	BEXAR	COAL	SOUTH	1977	420.0
18	J T DEELY U2		CALAVERS_JTD2	BEXAR	COAL	SOUTH	1978	420.0
19	LIMESTONE U1		LEG_LEG_G1	LIMESTONE	COAL	NORTH	1985	831.0
20	LIMESTONE U2		LEG_LEG_G2	LIMESTONE	COAL	NORTH	1986	858.0
21	MARTIN LAKE U1		MLSES_UNIT1	RUSK	COAL	NORTH	1977	800.0
22	MARTIN LAKE U3		MLSES_UNIT3	RUSK	COAL	NORTH	1979	805.0
23	MONTICELLO U1		MNSES_UNIT1	TITUS	COAL	NORTH	1974	535.0
24	MONTICELLO U2		MNSES_UNIT2	TITUS	COAL	NORTH	1975	535.0
25	MONTICELLO U3		MNSES_UNIT3	TITUS	COAL	NORTH	1978	795.0
26	OAK GROVE SES U1		OGSES_UNIT1A	ROBERTSON	COAL	NORTH	2010	840.0
27	OAK GROVE SES U2		OGSES_UNIT2	ROBERTSON	COAL	NORTH	2011	825.0
28	OKLAUNION U1		OKLA_OKLA_G1	WILBARGER	COAL	WEST	1986	650.0
29	SAN MIGUEL U1		SANMIGL_G1	ATASCOSA	COAL	SOUTH	1982	391.0
30	SANDOW U5		SD5SES_UNIT5	MILAM	COAL	SOUTH	2010	600.0
31	SANDY CREEK U1		SCES_UNIT1	MCLENNAN	COAL	NORTH	2013	970.0
32	TWIN OAKS U1		TNP_ONE_TNP_O_1	ROBERTSON	COAL	NORTH	1990	156.0
33	TWIN OAKS U2		TNP_ONE_TNP_O_2	ROBERTSON	COAL	NORTH	1991	156.0
34	W A PARISH U5		WAP_WAP_G5	FT. BEND	COAL	HOUSTON	1977	659.0
35	W A PARISH U6		WAP_WAP_G6	FT. BEND	COAL	HOUSTON	1978	658.0
36	W A PARISH U7		WAP_WAP_G7	FT. BEND	COAL	HOUSTON	1980	577.0
37	W A PARISH U8		WAP_WAP_G8	FT. BEND	COAL	HOUSTON	1982	610.0
38	ARTHUR VON ROSENBERG 1 CTG 1		BRAUNIG_AVR1_CT1	BEXAR	GAS	SOUTH	2000	149.0
39	ARTHUR VON ROSENBERG 1 CTG 2		BRAUNIG_AVR1_CT2	BEXAR	GAS	SOUTH	2000	149.0
40	ARTHUR VON ROSENBERG 1 STG		BRAUNIG_AVR1_ST	BEXAR	GAS	SOUTH	2000	160.0
41	BARNEY M DAVIS REPOWER CTG 3		B_DAVIS_B_DAVIG3	NUECES	GAS	COASTAL	2010	157.0
42	BARNEY M DAVIS REPOWER CTG 4		B_DAVIS_B_DAVIG4	NUECES	GAS	COASTAL	2010	157.0
43	BARNEY M DAVIS REPOWER STG 2		B_DAVIS_B_DAVIG2	NUECES	GAS	COASTAL	1976	319.0
44	BASTROP ENERGY CENTER CTG 1		BASTEN_GTG1100	BASTROP	GAS	SOUTH	2002	150.0
45	BASTROP ENERGY CENTER CTG 2		BASTEN_GTG2100	BASTROP	GAS	SOUTH	2002	150.0
46	BASTROP ENERGY CENTER STG		BASTEN_ST0100	BASTROP	GAS	SOUTH	2002	233.0
47	BOSQUE ENERGY CENTER CTG 1		BOSQUESW_BSQSU_1	BOSQUE	GAS	NORTH	2000	148.9
48	BOSQUE ENERGY CENTER STG 4		BOSQUESW_BSQSU_4	BOSQUE	GAS	NORTH	2001	81.4
49	BOSQUE ENERGY CENTER CTG 2		BOSQUESW_BSQSU_2	BOSQUE	GAS	NORTH	2000	148.9
50	BOSQUE ENERGY CENTER CTG 3		BOSQUESW_BSQSU_3	BOSQUE	GAS	NORTH	2001	150.2
51	BOSQUE ENERGY CENTER STG 5		BOSQUESW_BSQSU_5	BOSQUE	GAS	NORTH	2009	214.9
52	BRAZOS VALLEY CTG 1		BVE_UNIT1	FORT BEND	GAS	HOUSTON	2003	166.0
53	BRAZOS VALLEY CTG 2		BVE_UNIT2	FORT BEND	GAS	HOUSTON	2003	166.0
54	BRAZOS VALLEY STG 3		BVE_UNIT3	FORT BEND	GAS	HOUSTON	2003	270.0
55	CALENERGY-FALCON SEABOARD CTG 1		FLCNS_UNIT1	HOWARD	GAS	WEST	1987	75.0
56	CALENERGY-FALCON SEABOARD CTG 2		FLCNS_UNIT2	HOWARD	GAS	WEST	1987	75.0
57	CALENERGY-FALCON SEABOARD STG 3		FLCNS_UNIT3	HOWARD	GAS	WEST	1988	70.0
58	CEDAR BAYOU 4 CTG 1		CBY4_CT41	CHAMBERS	GAS	HOUSTON	2009	163.0
59	CEDAR BAYOU 4 CTG 2		CBY4_CT42	CHAMBERS	GAS	HOUSTON	2009	163.0
60	CEDAR BAYOU 4 STG		CBY4_ST04	CHAMBERS	GAS	HOUSTON	2009	178.0
61	COLORADO BEND ENERGY CENTER CTG 1		CBEC_GT1	WHARTON	GAS	SOUTH	2007	70.0
62	COLORADO BEND ENERGY CENTER CTG 2		CBEC_GT2	WHARTON	GAS	SOUTH	2007	62.0
63	COLORADO BEND ENERGY CENTER STG 1		CBEC_STG1	WHARTON	GAS	SOUTH	2007	101.0
64	COLORADO BEND ENERGY CENTER CTG 3		CBEC_GT3	WHARTON	GAS	SOUTH	2008	69.0
65	COLORADO BEND ENERGY CENTER CTG 4		CBEC_GT4	WHARTON	GAS	SOUTH	2008	63.0
66	COLORADO BEND ENERGY CENTER STG 2		CBEC_STG2	WHARTON	GAS	SOUTH	2008	103.0
67	CVC CHANNELVIEW CTG 1		CVC_CVC_G1	HARRIS	GAS	HOUSTON	2008	172.0
68	CVC CHANNELVIEW CTG 2		CVC_CVC_G2	HARRIS	GAS	HOUSTON	2008	164.0
69	CVC CHANNELVIEW CTG 3		CVC_CVC_G3	HARRIS	GAS	HOUSTON	2008	164.0
70	CVC CHANNELVIEW STG 5		CVC_CVC_G5	HARRIS	GAS	HOUSTON	2008	146.0
71	DEER PARK ENERGY CENTER CTG 1		DDPEC_GT1	HARRIS	GAS	HOUSTON	2002	181.0
72	DEER PARK ENERGY CENTER CTG 2		DDPEC_GT2	HARRIS	GAS	HOUSTON	2002	193.0
73	DEER PARK ENERGY CENTER CTG 3		DDPEC_GT3	HARRIS	GAS	HOUSTON	2002	181.0
74	DEER PARK ENERGY CENTER CTG 4		DDPEC_GT4	HARRIS	GAS	HOUSTON	2002	193.0
75	DEER PARK ENERGY CENTER STG		DDPEC_ST1	HARRIS	GAS	HOUSTON	2002	290.0
76	DEER PARK ENERGY CENTER CTG 6		DDPEC_GT6	HARRIS	GAS	HOUSTON	2014	165.0
77	ENNIS POWER STATION CTG 2		ETCCS_CT1	ELLIS	GAS	NORTH	2002	196.0
78	ENNIS POWER STATION STG 1		ETCCS_UNIT1	ELLIS	GAS	NORTH	2002	116.0
79	FERGUSON REPLACEMENT CTG1		FERGCC_FERGGT1	LLANO	GAS	SOUTH	2014	161.9
80	FERGUSON REPLACEMENT CTG2		FERGCC_FERGGT2	LLANO	GAS	SOUTH	2014	161.9
81	FERGUSON REPLACEMENT STG		FERGCC_FERGST1	LLANO	GAS	SOUTH	2014	186.0
82	FORNEY ENERGY CENTER CTG 11		FRNYPP_GT11	KAUFMAN	GAS	NORTH	2003	169.0
83	FORNEY ENERGY CENTER CTG 12		FRNYPP_GT12	KAUFMAN	GAS	NORTH	2003	161.0
84	FORNEY ENERGY CENTER CTG 13		FRNYPP_GT13	KAUFMAN	GAS	NORTH	2003	161.0
85	FORNEY ENERGY CENTER CTG 21		FRNYPP_GT21	KAUFMAN	GAS	NORTH	2003	169.0
86	FORNEY ENERGY CENTER CTG 22		FRNYPP_GT22	KAUFMAN	GAS	NORTH	2003	161.0
87	FORNEY ENERGY CENTER CTG 23		FRNYPP_GT23	KAUFMAN	GAS	NORTH	2003	161.0
88	FORNEY ENERGY CENTER STG 10		FRNYPP_ST10	KAUFMAN	GAS	NORTH	2003	420.0
89	FORNEY ENERGY CENTER STG 20		FRNYPP_ST20	KAUFMAN	GAS	NORTH	2003	420.0
90	FREESTONE ENERGY CENTER CTG 1		FREC_GT1	FREESTONE	GAS	NORTH	2002	151.6
91	FREESTONE ENERGY CENTER CTG 2		FREC_GT2	FREESTONE	GAS	NORTH	2002	151.6
92	FREESTONE ENERGY CENTER STG 3		FREC_ST3	FREESTONE	GAS	NORTH	2002	176.2
93	FREESTONE ENERGY CENTER CTG 4		FREC_GT4	FREESTONE	GAS	NORTH	2002	151.7
94	FREESTONE ENERGY CENTER CTG 5		FREC_GT5	FREESTONE	GAS	NORTH	2002	151.7
95	FREESTONE ENERGY CENTER STG 6		FREC_ST6	FREESTONE	GAS	NORTH	2002	174.5
96	GUADALUPE ENERGY CENTER CTG 1		GUADG_GAS1	GUADALUPE	GAS	SOUTH	2000	148.0
97	GUADALUPE ENERGY CENTER CTG 2		GUADG_GAS2	GUADALUPE	GAS	SOUTH	2000	148.0
98	GUADALUPE ENERGY CENTER CTG 3		GUADG_GAS3	GUADALUPE	GAS	SOUTH	2000	148.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
99	GUADALUPE ENERGY CENTER CTG 4		GUADG_GAS4	GUADALUPE	GAS	SOUTH	2000	148.0
100	GUADALUPE ENERGY CENTER STG 5		GUADG_STM5	GUADALUPE	GAS	SOUTH	2000	197.0
101	GUADALUPE ENERGY CENTER STG 6		GUADG_STM6	GUADALUPE	GAS	SOUTH	2000	197.0
102	HAYS ENERGY FACILITY CSG 1		HAYSEN_HAYSENG1	HAYS	GAS	SOUTH	2002	216.0
103	HAYS ENERGY FACILITY CSG 2		HAYSEN_HAYSENG2	HAYS	GAS	SOUTH	2002	216.0
104	HAYS ENERGY FACILITY CSG 3		HAYSEN_HAYSENG3	HAYS	GAS	SOUTH	2002	225.0
105	HAYS ENERGY FACILITY CSG 4		HAYSEN_HAYSENG4	HAYS	GAS	SOUTH	2002	225.0
106	HIDALGO ENERGY CENTER CTG 1		DUKE_DUKE_GT1	HIDALGO	GAS	SOUTH	2000	143.0
107	HIDALGO ENERGY CENTER CTG 2		DUKE_DUKE_GT2	HIDALGO	GAS	SOUTH	2000	143.0
108	HIDALGO ENERGY CENTER STG		DUKE_DUKE_ST1	HIDALGO	GAS	SOUTH	2000	172.0
109	JACK COUNTY GEN FACILITY CTG 1		JACKCNTY_CT1	JACK	GAS	NORTH	2005	150.0
110	JACK COUNTY GEN FACILITY CTG 2		JACKCNTY_CT2	JACK	GAS	NORTH	2005	150.0
111	JACK COUNTY GEN FACILITY STG 1		JACKCNTY_STG	JACK	GAS	NORTH	2005	295.0
112	JACK COUNTY GEN FACILITY CTG 3		JCKCNTY2_CT3	JACK	GAS	NORTH	2011	150.0
113	JACK COUNTY GEN FACILITY CTG 4		JCKCNTY2_CT4	JACK	GAS	NORTH	2011	150.0
114	JACK COUNTY GEN FACILITY STG 2		JCKCNTY2_ST2	JACK	GAS	NORTH	2011	295.0
115	JOHNSON COUNTY GEN FACILITY CTG		TEN_CT1	JOHNSON	GAS	NORTH	1997	163.0
116	JOHNSON COUNTY GEN FACILITY STG		TEN_STG	JOHNSON	GAS	NORTH	1997	106.0
117	LAMAR ENERGY CENTER CTG 11		LPCCS_CT11	LAMAR	GAS	NORTH	2000	163.0
118	LAMAR ENERGY CENTER CTG 12		LPCCS_CT12	LAMAR	GAS	NORTH	2000	153.0
119	LAMAR ENERGY CENTER CTG 21		LPCCS_CT21	LAMAR	GAS	NORTH	2000	153.0
120	LAMAR ENERGY CENTER CTG 22		LPCCS_CT22	LAMAR	GAS	NORTH	2000	163.0
121	LAMAR ENERGY CENTER STG 1		LPCCS_UNIT1	LAMAR	GAS	NORTH	2000	204.0
122	LAMAR ENERGY CENTER STG 2		LPCCS_UNIT2	LAMAR	GAS	NORTH	2000	204.0
123	LOST PINES POWER CTG 1		LOSTPI_LOSTPGT1	BASTROP	GAS	SOUTH	2001	170.0
124	LOST PINES POWER CTG 2		LOSTPI_LOSTPGT2	BASTROP	GAS	SOUTH	2001	170.0
125	LOST PINES POWER STG		LOSTPI_LOSTPST1	BASTROP	GAS	SOUTH	2001	188.0
126	MAGIC VALLEY STATION CTG 1		NEDIN_NEDIN_G1	HIDALGO	GAS	SOUTH	2001	208.6
127	MAGIC VALLEY STATION CTG 2		NEDIN_NEDIN_G2	HIDALGO	GAS	SOUTH	2001	208.6
128	MAGIC VALLEY STATION STG		NEDIN_NEDIN_G3	HIDALGO	GAS	SOUTH	2001	253.0
129	MIDLOTHIAN ENERGY FACILITY CS 1		MDANP_CT1	ELLIS	GAS	NORTH	2001	235.0
130	MIDLOTHIAN ENERGY FACILITY CS 2		MDANP_CT2	ELLIS	GAS	NORTH	2001	235.0
131	MIDLOTHIAN ENERGY FACILITY CS 3		MDANP_CT3	ELLIS	GAS	NORTH	2001	235.0
132	MIDLOTHIAN ENERGY FACILITY CS 4		MDANP_CT4	ELLIS	GAS	NORTH	2001	235.0
133	MIDLOTHIAN ENERGY FACILITY CS 5		MDANP_CT5	ELLIS	GAS	NORTH	2002	252.0
134	MIDLOTHIAN ENERGY FACILITY CS 6		MDANP_CT6	ELLIS	GAS	NORTH	2002	252.0
135	NUECES BAY REPOWER CTG 8		NUECES_B_NUECESG8	NUECES	GAS	COASTAL	2010	157.0
136	NUECES BAY REPOWER CTG 9		NUECES_B_NUECESG9	NUECES	GAS	COASTAL	2010	157.0
137	NUECES BAY REPOWER STG 7		NUECES_B_NUECESG7	NUECES	GAS	COASTAL	1972	319.0
138	ODESSA-ECTOR POWER CTG 11		OECCS_CT11	ECTOR	GAS	WEST	2001	146.4
139	ODESSA-ECTOR POWER CTG 12		OECCS_CT12	ECTOR	GAS	WEST	2001	143.6
140	ODESSA-ECTOR POWER CTG 21		OECCS_CT21	ECTOR	GAS	WEST	2001	141.9
141	ODESSA-ECTOR POWER CTG 22		OECCS_CT22	ECTOR	GAS	WEST	2001	137.7
142	ODESSA-ECTOR POWER STG 1		OECCS_UNIT1	ECTOR	GAS	WEST	2001	210.0
143	ODESSA-ECTOR POWER STG 2		OECCS_UNIT2	ECTOR	GAS	WEST	2001	210.0
144	PANDA SHERMAN POWER CTG1		PANDA_S_SHER1CT1	GRAYSON	GAS	NORTH	2014	196.0
145	PANDA SHERMAN POWER CTG2		PANDA_S_SHER1CT2	GRAYSON	GAS	NORTH	2014	195.0
146	PANDA SHERMAN POWER STG		PANDA_S_SHER1ST1	GRAYSON	GAS	NORTH	2014	326.0
147	PANDA TEMPLE I POWER CTG1		PANDA_T1_TMPL1CT1	BELL	GAS	NORTH	2014	195.0
148	PANDA TEMPLE I POWER CTG2		PANDA_T1_TMPL1CT2	BELL	GAS	NORTH	2014	195.0
149	PANDA TEMPLE I POWER STG		PANDA_T1_TMPL1ST1	BELL	GAS	NORTH	2014	312.0
150	PANDA TEMPLE II POWER CTG1		PANDA_T2_TMPL2CT1	BELL	GAS	NORTH	2015	191.2
151	PANDA TEMPLE II POWER CTG2		PANDA_T2_TMPL2CT2	BELL	GAS	NORTH	2015	191.2
152	PANDA TEMPLE II POWER STG		PANDA_T2_TMPL2ST1	BELL	GAS	NORTH	2015	334.7
153	PARIS ENERGY CENTER CTG 1		TNSKA_GT1	LAMAR	GAS	NORTH	1989	76.0
154	PARIS ENERGY CENTER CTG 2		TNSKA_GT2	LAMAR	GAS	NORTH	1989	76.0
155	PARIS ENERGY CENTER STG		TNSKA_STG	LAMAR	GAS	NORTH	1990	87.0
156	PASADENA COGEN FACILITY CTG 2		PSG_PSG_GT2	HARRIS	GAS	HOUSTON	2000	164.0
157	PASADENA COGEN FACILITY CTG 3		PSG_PSG_GT3	HARRIS	GAS	HOUSTON	2000	164.0
158	PASADENA COGEN FACILITY STG 2		PSG_PSG_ST2	HARRIS	GAS	HOUSTON	2000	167.0
159	QUAIL RUN ENERGY CTG 1		QALSW_GT1	ECTOR	GAS	WEST	2007	74.0
160	QUAIL RUN ENERGY CTG 2		QALSW_GT2	ECTOR	GAS	WEST	2007	74.0
161	QUAIL RUN ENERGY STG 1		QALSW_STG1	ECTOR	GAS	WEST	2007	98.0
162	QUAIL RUN ENERGY CTG 3		QALSW_GT3	ECTOR	GAS	WEST	2008	72.0
163	QUAIL RUN ENERGY CTG 4		QALSW_GT4	ECTOR	GAS	WEST	2008	72.0
164	QUAIL RUN ENERGY STG 2		QALSW_STG2	ECTOR	GAS	WEST	2008	98.0
165	RIO NOGALES POWER CTG 1		RIONOG_CT1	GUADALUPE	GAS	SOUTH	2002	154.0
166	RIO NOGALES POWER CTG 2		RIONOG_CT2	GUADALUPE	GAS	SOUTH	2002	154.0
167	RIO NOGALES POWER CTG 3		RIONOG_CT3	GUADALUPE	GAS	SOUTH	2002	154.0
168	RIO NOGALES POWER STG 4		RIONOG_ST1	GUADALUPE	GAS	SOUTH	2002	323.0
169	SAM RAYBURN POWER CTG 7		RAYBURN_RAYBURG7	VICTORIA	GAS	SOUTH	2003	50.0
170	SAM RAYBURN POWER CTG 8		RAYBURN_RAYBURG8	VICTORIA	GAS	SOUTH	2003	50.0
171	SAM RAYBURN POWER CTG 9		RAYBURN_RAYBURG9	VICTORIA	GAS	SOUTH	2003	50.0
172	SAM RAYBURN POWER STG 10		RAYBURN_RAYBURG10	VICTORIA	GAS	SOUTH	2003	40.0
173	SANDHILL ENERGY CENTER CTG 5A		SANDHSYD_SH_5A	TRAVIS	GAS	SOUTH	2004	150.0
174	SANDHILL ENERGY CENTER STG 5C		SANDHSYD_SH_5C	TRAVIS	GAS	SOUTH	2004	145.0
175	SILAS RAY POWER STG 6		SILASRAY_SILAS_6	CAMERON	GAS	COASTAL	1962	20.0
176	SILAS RAY POWER CTG 9		SILASRAY_SILAS_9	CAMERON	GAS	COASTAL	1996	38.0
177	T H WHARTON POWER CTG 31		THW_THWGT31	HARRIS	GAS	HOUSTON	1972	57.0
178	T H WHARTON POWER CTG 32		THW_THWGT32	HARRIS	GAS	HOUSTON	1972	57.0
179	T H WHARTON POWER CTG 33		THW_THWGT33	HARRIS	GAS	HOUSTON	1972	57.0
180	T H WHARTON POWER CTG 34		THW_THWGT34	HARRIS	GAS	HOUSTON	1972	57.0
181	T H WHARTON POWER STG 3		THW_THWST_3	HARRIS	GAS	HOUSTON	1974	104.0
182	T H WHARTON POWER CTG 41		THW_THWGT41	HARRIS	GAS	HOUSTON	1972	57.0
183	T H WHARTON POWER CTG 42		THW_THWGT42	HARRIS	GAS	HOUSTON	1972	57.0
184	T H WHARTON POWER CTG 43		THW_THWGT43	HARRIS	GAS	HOUSTON	1974	57.0
185	T H WHARTON POWER CTG 44		THW_THWGT44	HARRIS	GAS	HOUSTON	1974	57.0
186	T H WHARTON POWER STG 4		THW_THWST_4	HARRIS	GAS	HOUSTON	1974	104.0
187	TEXAS CITY POWER CTG A		TXCTY_CTA	GALVESTON	GAS	HOUSTON	2000	96.6
188	TEXAS CITY POWER CTG B		TXCTY_CTB	GALVESTON	GAS	HOUSTON	2000	96.6
189	TEXAS CITY POWER CTG C		TXCTY_CTC	GALVESTON	GAS	HOUSTON	2000	96.6
190	TEXAS CITY POWER STG		TXCTY_ST	GALVESTON	GAS	HOUSTON	2000	131.6
191	VICTORIA POWER CTG 6		VICTORIA_VICTORG6	VICTORIA	GAS	SOUTH	2009	160.0
192	VICTORIA POWER STG 5		VICTORIA_VICTORG5	VICTORIA	GAS	SOUTH	1963	125.0
193	WICHITA FALLS CTG 1		WFCOGEN_UNIT1	WICHITA	GAS	WEST	1987	20.0
194	WICHITA FALLS CTG 2		WFCOGEN_UNIT2	WICHITA	GAS	WEST	1987	20.0
195	WICHITA FALLS CTG 3		WFCOGEN_UNIT3	WICHITA	GAS	WEST	1987	20.0
196	WICHITA FALLS STG 4		WFCOGEN_UNIT4	WICHITA	GAS	WEST	1987	17.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
197	WISE-TRACTEBEL POWER CTG 1		WCPP_CT1	WISE	GAS	NORTH	2004	212.0
198	WISE-TRACTEBEL POWER CTG 2		WCPP_CT2	WISE	GAS	NORTH	2004	212.0
199	WISE-TRACTEBEL POWER STG 1		WCPP_ST1	WISE	GAS	NORTH	2004	241.0
200	WOLF HOLLOW POWER CTG 1		WHCCS_CT1	HOOD	GAS	NORTH	2002	212.5
201	WOLF HOLLOW POWER CTG 2		WHCCS_CT2	HOOD	GAS	NORTH	2002	212.5
202	WOLF HOLLOW POWER STG		WHCCS_STG	HOOD	GAS	NORTH	2002	280.0
203	ATKINS CTG 7		ATKINS_ATKINSG7	BRAZOS	GAS	NORTH	1973	18.0
204	DANSBY CTG 2		DANSBY_DANSBYG2	BRAZOS	GAS	NORTH	2004	45.0
205	DANSBY CTG 3		DANSBY_DANSBYG3	BRAZOS	GAS	NORTH	2010	47.0
206	DECKER CREEK CTG 1		DECKER_DPGT_1	TRAVIS	GAS	SOUTH	1989	48.0
207	DECKER CREEK CTG 2		DECKER_DPGT_2	TRAVIS	GAS	SOUTH	1989	48.0
208	DECKER CREEK CTG 3		DECKER_DPGT_3	TRAVIS	GAS	SOUTH	1989	48.0
209	DECKER CREEK CTG 4		DECKER_DPGT_4	TRAVIS	GAS	SOUTH	1989	48.0
210	DECORDOVA CTG 1		DCSES_CT10	HOOD	GAS	NORTH	1990	71.0
211	DECORDOVA CTG 2		DCSES_CT20	HOOD	GAS	NORTH	1990	70.0
212	DECORDOVA CTG 3		DCSES_CT30	HOOD	GAS	NORTH	1990	69.0
213	DECORDOVA CTG 4		DCSES_CT40	HOOD	GAS	NORTH	1990	68.0
214	ECTOR COUNTY ENERGY CTG 1		ECEC_G1	ECTOR	GAS	WEST	2015	147.0
215	ECTOR COUNTY ENERGY CTG 2		ECEC_G2	ECTOR	GAS	WEST	2015	147.0
216	EXTEX LAPORTE GEN STN CTG 1		AZ_AZ_G1	HARRIS	GAS	HOUSTON	2009	38.0
217	EXTEX LAPORTE GEN STN CTG 2		AZ_AZ_G2	HARRIS	GAS	HOUSTON	2009	38.0
218	EXTEX LAPORTE GEN STN CTG 3		AZ_AZ_G3	HARRIS	GAS	HOUSTON	2009	38.0
219	EXTEX LAPORTE GEN STN CTG 4		AZ_AZ_G4	HARRIS	GAS	HOUSTON	2009	38.0
220	GREENS BAYOU CTG 73		GBY_GBYGT73	HARRIS	GAS	HOUSTON	1976	46.0
221	GREENS BAYOU CTG 74		GBY_GBYGT74	HARRIS	GAS	HOUSTON	1976	46.0
222	GREENS BAYOU CTG 81		GBY_GBYGT81	HARRIS	GAS	HOUSTON	1976	46.0
223	GREENS BAYOU CTG 82		GBY_GBYGT82	HARRIS	GAS	HOUSTON	1976	58.0
224	GREENS BAYOU CTG 83		GBY_GBYGT83	HARRIS	GAS	HOUSTON	1976	56.0
225	GREENS BAYOU CTG 84		GBY_GBYGT84	HARRIS	GAS	HOUSTON	1976	46.0
226	GREENVILLE IC ENGINE PLANT		STEAM_ENGINE_1	HUNT	GAS	NORTH	2010	8.4
227	GREENVILLE IC ENGINE PLANT		STEAM_ENGINE_2	HUNT	GAS	NORTH	2010	8.4
228	GREENVILLE IC ENGINE PLANT		STEAM_ENGINE_3	HUNT	GAS	NORTH	2010	8.4
229	LAREDO CTG 4		LARDVFTN_G4	WEBB	GAS	SOUTH	2008	90.1
230	LAREDO CTG 5		LARDVFTN_G5	WEBB	GAS	SOUTH	2008	87.3
231	LEON CREEK PEAKER CTG 1		LEON_CRK_LCPCT1	BEXAR	GAS	SOUTH	2004	45.0
232	LEON CREEK PEAKER CTG 2		LEON_CRK_LCPCT2	BEXAR	GAS	SOUTH	2004	46.0
233	LEON CREEK PEAKER CTG 3		LEON_CRK_LCPCT3	BEXAR	GAS	SOUTH	2004	44.0
234	LEON CREEK PEAKER CTG 4		LEON_CRK_LCPCT4	BEXAR	GAS	SOUTH	2004	46.0
235	MORGAN CREEK CTG 1		MGSES_CT1	MITCHELL	GAS	WEST	1988	68.0
236	MORGAN CREEK CTG 2		MGSES_CT2	MITCHELL	GAS	WEST	1988	68.0
237	MORGAN CREEK CTG 3		MGSES_CT3	MITCHELL	GAS	WEST	1988	68.0
238	MORGAN CREEK CTG 4		MGSES_CT4	MITCHELL	GAS	WEST	1988	68.0
239	MORGAN CREEK CTG 5		MGSES_CT5	MITCHELL	GAS	WEST	1988	68.0
240	MORGAN CREEK CTG 6		MGSES_CT6	MITCHELL	GAS	WEST	1988	67.0
241	PEARSALL IC ENGINE PLANT A		PEARSAL2_AGR_A	FRIO	GAS	SOUTH	2012	50.6
242	PEARSALL IC ENGINE PLANT B		PEARSAL2_AGR_B	FRIO	GAS	SOUTH	2012	50.6
243	PEARSALL IC ENGINE PLANT C		PEARSAL2_AGR_C	FRIO	GAS	SOUTH	2012	50.6
244	PEARSALL IC ENGINE PLANT D		PEARSAL2_AGR_D	FRIO	GAS	SOUTH	2012	50.6
245	PERMIAN BASIN CTG 1		PB2SES_CT1	WARD	GAS	WEST	1988	68.0
246	PERMIAN BASIN CTG 2		PB2SES_CT2	WARD	GAS	WEST	1988	65.0
247	PERMIAN BASIN CTG 3		PB2SES_CT3	WARD	GAS	WEST	1988	68.0
248	PERMIAN BASIN CTG 4		PB2SES_CT4	WARD	GAS	WEST	1990	69.0
249	PERMIAN BASIN CTG 5		PB2SES_CT5	WARD	GAS	WEST	1990	70.0
250	R W MILLER CTG 4		MIL_MILLERG4	PALO PINTO	GAS	NORTH	1994	104.0
251	R W MILLER CTG 5		MIL_MILLERG5	PALO PINTO	GAS	NORTH	1994	104.0
252	RAY OLINGER CTG 4		OLINGR_OLING_4	COLLIN	GAS	NORTH	2001	75.0
253	SAM RAYBURN CTG 1		RAYBURN_RAYBURG1	VICTORIA	GAS	SOUTH	1963	11.0
254	SAM RAYBURN CTG 2		RAYBURN_RAYBURG2	VICTORIA	GAS	SOUTH	1963	11.0
255	SAN JACINTO SES CTG 1		SJS_SJS_G1	HARRIS	GAS	HOUSTON	1995	81.0
256	SAN JACINTO SES CTG 2		SJS_SJS_G2	HARRIS	GAS	HOUSTON	1995	81.0
257	SANDHILL ENERGY CENTER CTG 1		SANDHSYD_SH1	TRAVIS	GAS	SOUTH	2001	47.0
258	SANDHILL ENERGY CENTER CTG 2		SANDHSYD_SH2	TRAVIS	GAS	SOUTH	2001	47.0
259	SANDHILL ENERGY CENTER CTG 3		SANDHSYD_SH3	TRAVIS	GAS	SOUTH	2001	47.0
260	SANDHILL ENERGY CENTER CTG 4		SANDHSYD_SH4	TRAVIS	GAS	SOUTH	2001	47.0
261	SANDHILL ENERGY CENTER CTG 6		SANDHSYD_SH6	TRAVIS	GAS	SOUTH	2010	47.0
262	SANDHILL ENERGY CENTER CTG 7		SANDHSYD_SH7	TRAVIS	GAS	SOUTH	2010	47.0
263	SILAS RAY CTG 10		SILASRAY_SILAS_10	CAMERON	GAS	COASTAL	2004	46.0
264	T H WHARTON CTG 51		THW_THWGT51	HARRIS	GAS	HOUSTON	1975	57.0
265	T H WHARTON CTG 52		THW_THWGT52	HARRIS	GAS	HOUSTON	1975	57.0
266	T H WHARTON CTG 53		THW_THWGT53	HARRIS	GAS	HOUSTON	1975	57.0
267	T H WHARTON CTG 54		THW_THWGT54	HARRIS	GAS	HOUSTON	1975	57.0
268	T H WHARTON CTG 55		THW_THWGT55	HARRIS	GAS	HOUSTON	1975	57.0
269	T H WHARTON CTG 56		THW_THWGT56	HARRIS	GAS	HOUSTON	1975	57.0
270	T H WHARTON CTG G1		THW_THWGT_1	HARRIS	GAS	HOUSTON	1967	13.0
271	TEXAS GULF SULPHUR		TGF_TGFGT_1	WHARTON	GAS	SOUTH	1985	79.0
272	V H BRAUNIG CTG 5		BRAUNIG_VHB6CT5	BEXAR	GAS	SOUTH	2009	48.0
273	V H BRAUNIG CTG 6		BRAUNIG_VHB6CT6	BEXAR	GAS	SOUTH	2009	48.0
274	V H BRAUNIG CTG 7		BRAUNIG_VHB6CT7	BEXAR	GAS	SOUTH	2009	48.0
275	V H BRAUNIG CTG 8		BRAUNIG_VHB6CT8	BEXAR	GAS	SOUTH	2009	47.0
276	W A PARISH CTG 1		WAP_WAPGT_1	FT. BEND	GAS	HOUSTON	1967	13.0
277	WINCHESTER POWER PARK CTG 1		WIPOPA_WPP_G1	FAYETTE	GAS	SOUTH	2009	44.0
278	WINCHESTER POWER PARK CTG 2		WIPOPA_WPP_G2	FAYETTE	GAS	SOUTH	2009	44.0
279	WINCHESTER POWER PARK CTG 3		WIPOPA_WPP_G3	FAYETTE	GAS	SOUTH	2009	44.0
280	WINCHESTER POWER PARK CTG 4		WIPOPA_WPP_G4	FAYETTE	GAS	SOUTH	2009	44.0
281	B M DAVIS STG U1		B_DAVIS_B_DAVIG1	NUECES	GAS	COASTAL	1974	330.0
282	CEDAR BAYOU STG U1		CBY_CBY_G1	CHAMBERS	GAS	HOUSTON	1970	745.0
283	CEDAR BAYOU STG U2		CBY_CBY_G2	CHAMBERS	GAS	HOUSTON	1972	749.0
284	DANSBY STG U1		DANSBY_DANSBYG1	BRAZOS	GAS	NORTH	1978	107.0
285	DECKER CREEK STG U1		DECKER_DPG1	TRAVIS	GAS	SOUTH	1971	315.0
286	DECKER CREEK STG U2		DECKER_DPG2	TRAVIS	GAS	SOUTH	1978	420.0
287	GRAHAM STG U1		GRSES_UNIT1	YOUNG	GAS	WEST	1960	234.0
288	GRAHAM STG U2		GRSES_UNIT2	YOUNG	GAS	WEST	1969	390.0
289	HANDLEY STG U3		HLSES_UNIT3	TARRANT	GAS	NORTH	1963	395.0
290	HANDLEY STG U4		HLSES_UNIT4	TARRANT	GAS	NORTH	1976	435.0
291	HANDLEY STG U5		HLSES_UNIT5	TARRANT	GAS	NORTH	1977	435.0
292	LAKE HUBBARD STG U1		LHSES_UNIT1	DALLAS	GAS	NORTH	1970	392.0
293	LAKE HUBBARD STG U2		LHSES_UNIT2A	DALLAS	GAS	NORTH	1973	523.0
294	MOUNTAIN CREEK STG U6		MCSES_UNIT6	DALLAS	GAS	NORTH	1956	122.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
295	MOUNTAIN CREEK STG U7		MCSES_UNIT7	DALLAS	GAS	NORTH	1958	118.0
296	MOUNTAIN CREEK STG U8		MCSES_UNIT8	DALLAS	GAS	NORTH	1967	568.0
297	O W SOMMERS STG U1		CALAVERS_OWS1	BEXAR	GAS	SOUTH	1972	420.0
298	O W SOMMERS STG U2		CALAVERS_OWS2	BEXAR	GAS	SOUTH	1974	410.0
299	PEARSALL STG U1		PEARSALL_PEARS_1	FRIO	GAS	SOUTH	1961	19.0
300	PEARSALL STG U2		PEARSALL_PEARS_2	FRIO	GAS	SOUTH	1961	22.0
301	PEARSALL STG U3		PEARSALL_PEARS_3	FRIO	GAS	SOUTH	1961	20.0
302	POWERLANE PLANT STG U1		STEAM1A_STEAM_1	HUNT	GAS	NORTH	1966	20.0
303	POWERLANE PLANT STG U2		STEAM_STEAM_2	HUNT	GAS	NORTH	1967	26.0
304	POWERLANE PLANT STG U3		STEAM_STEAM_3	HUNT	GAS	NORTH	1978	41.0
305	R W MILLER STG U1		MIL_MILLERG1	PALO PINTO	GAS	NORTH	1968	75.0
306	R W MILLER STG U2		MIL_MILLERG2	PALO PINTO	GAS	NORTH	1972	120.0
307	R W MILLER STG U3		MIL_MILLERG3	PALO PINTO	GAS	NORTH	1975	208.0
308	RAY OLINGER STG U1		OLINGR_OLING_1	COLLIN	GAS	NORTH	1967	78.0
309	RAY OLINGER STG U2		OLINGR OLING 2	COLLIN	GAS	NORTH	1971	107.0
310	RAY OLINGER STG U3		OLINGR OLING 3	COLLIN	GAS	NORTH	1975	146.0
311	SIM GIDEON STG U1		GIDEON GIDEONG1	BASTROP	GAS	SOUTH	1965	130.0
312	SIM GIDEON STG U2		GIDEON GIDEONG2	BASTROP	GAS	SOUTH	1968	135.0
313	SIM GIDEON STG U3		GIDEON_GIDEONG3	BASTROP	GAS	SOUTH	1972	336.0
314	SPENCER STG U4		SPNCER_SPNCE_4	DENTON	GAS	NORTH	1966	61.0
315	SPENCER STG U5		SPNCER_SPNCE_5	DENTON	GAS	NORTH	1973	61.0
316	STRYKER CREEK STG U1		SCSES_UNIT1A	CHEROKEE	GAS	NORTH	1958	167.0
317	STRYKER CREEK STG U2		SCSES_UNIT2	CHEROKEE	GAS	NORTH	1965	502.0
318	TRINIDAD STG U6		TRSES_UNIT6	HENDERSON	GAS	NORTH	1965	235.0
319	V H BRAUNIG STG U1		BRAUNIG_VHB1	BEXAR	GAS	SOUTH	1966	220.0
320	V H BRAUNIG STG U2		BRAUNIG_VHB2	BEXAR	GAS	SOUTH	1968	230.0
321	V H BRAUNIG STG U3		BRAUNIG_VHB3	BEXAR	GAS	SOUTH	1970	412.0
322	W A PARISH STG U1		WAP_WAP_G1	FT. BEND	GAS	HOUSTON	1958	169.0
323	W A PARISH STG U2		WAP WAP G2	FT. BEND	GAS	HOUSTON	1958	169.0
324	W A PARISH STG U3		WAP WAP G3	FT. BEND	GAS	HOUSTON	1961	246.0
325	W A PARISH STG U4		WAP WAP G4	FT. BEND	GAS	HOUSTON	1968	536.0
326	NACOGDOCHES POWER		NACPW UNIT1	NACOGDOCHES	BIOMASS	NORTH	2012	105.0
327	BIOENERGY AUSTIN WALZEM RD LFG		DG_WALZE_4UNITS	BEXAR	BIOMASS	SOUTH	2002	9.8
328	BIOENERGY TEXAS COVEL GARDENS LFG		DG_MEDIN_1UNIT	BEXAR	BIOMASS	SOUTH	2005	9.6
329	FORT WORTH METHANE LFG		DG_RDLML_1UNIT	TARRANT	BIOMASS	NORTH	2011	1.6
330	GRAND PRAIRIE LFG		DG_TRIRA_1UNIT	DALLAS	BIOMASS	NORTH	2015	4.0
331	MCKINNEY LFG		DG_MKNSW_2UNITS	COLLIN	BIOMASS	NORTH	2011	3.2
332	NELSON GARDENS LFG		DG_78252_4UNITS	BEXAR	BIOMASS	SOUTH	2013	4.2
333	SKYLINE LFG		DG_FERIS_4 UNITS	DALLAS	BIOMASS	NORTH	2007	6.4
334	TRINITY OAKS LFG		DG_KLBRG_1UNIT	DALLAS	BIOMASS	NORTH	2011	3.2
335	VIRIDIS ENERGY-ALVIN LFG		DG_AV_DG1	GALVESTON	BIOMASS	HOUSTON	2002	6.7
336	VIRIDIS ENERGY-HUMBLE LFG		DG_HB_DG1	HARRIS	BIOMASS	HOUSTON	2002	10.0
337	VIRIDIS ENERGY-LIBERTY LFG		DG LB DG1	HARRIS	BIOMASS	HOUSTON	2002	3.9
338	VIRIDIS ENERGY-TRINITY BAY LFG		DG TRN DG1	CHAMBERS	BIOMASS	HOUSTON	2002	3.9
339	WM RENEWABLE-AUSTIN LFG		DG SPRIN 4UNITS	TRAVIS	BIOMASS	SOUTH	2007	6.4
340	WM RENEWABLE-DFW GAS RECOVERY LFG		DG BIO2 4UNITS	DENTON	BIOMASS	NORTH	2009	6.4
341	WM RENEWABLE-BIOENERGY PARTNERS LFG		DG_BIOE_2UNITS	DENTON	BIOMASS	NORTH	1988	6.2
342	WM RENEWABLE-MESQUITE CREEK LFG		DG_FREIH_2UNITS	COMAL	BIOMASS	SOUTH	2011	3.2
343	WM RENEWABLE-WESTSIDE LFG		DG_WSTHL_3UNITS	PARKER	BIOMASS	NORTH	2010	4.8
344	NOTREES BATTERY FACILITY		NWF_NBS	WINKLER	STORAGE	WEST	2012	-
345	**Operational Capacity Total (Nuclear, Coal, Gas, Biomass)**							**65,654.2**
346								
347	**Operational Resources (Hydro)**							
348	AMISTAD HYDRO 1		AMISTAD_AMISTAG1	VAL VERDE	HYDRO	WEST	1983	37.9
349	AMISTAD HYDRO 2		AMISTAD_AMISTAG2	VAL VERDE	HYDRO	WEST	1983	37.9
350	AUSTIN HYDRO 1		AUSTPL_AUSTING1	TRAVIS	HYDRO	SOUTH	1940	8.0
351	AUSTIN HYDRO 2		AUSTPL AUSTING2	TRAVIS	HYDRO	SOUTH	1940	9.0
352	BUCHANAN HYDRO 1		BUCHAN BUCHANG1	LLANO	HYDRO	SOUTH	1938	16.0
353	BUCHANAN HYDRO 2		BUCHAN BUCHANG2	LLANO	HYDRO	SOUTH	1938	16.0
354	BUCHANAN HYDRO 3		BUCHAN BUCHANG3	LLANO	HYDRO	SOUTH	1950	17.0
355	DENISON DAM 1		DNDAM_DENISOG1	GRAYSON	HYDRO	NORTH	1944	40.0
356	DENISON DAM 2		DNDAM_DENISOG2	GRAYSON	HYDRO	NORTH	1948	40.0
357	FALCON HYDRO 1		FALCON_FALCONG1	STARR	HYDRO	SOUTH	1954	12.0
358	FALCON HYDRO 2		FALCON_FALCONG2	STARR	HYDRO	SOUTH	1954	12.0
359	FALCON HYDRO 3		FALCON_FALCONG3	STARR	HYDRO	SOUTH	1954	12.0
360	GRANITE SHOALS HYDRO 1		WIRTZ_WIRTZ_G1	BURNET	HYDRO	SOUTH	1951	29.0
361	GRANITE SHOALS HYDRO 2		WIRTZ_WIRTZ_G2	BURNET	HYDRO	SOUTH	1951	29.0
362	INKS HYDRO 1		INKSDA_INKS_G1	LLANO	HYDRO	SOUTH	1938	14.0
363	MARBLE FALLS HYDRO 1		MARBFA_MARBFAG1	BURNET	HYDRO	SOUTH	1951	21.0
364	MARBLE FALLS HYDRO 2		MARBFA_MARBFAG2	BURNET	HYDRO	SOUTH	1951	20.0
365	MARSHALL FORD HYDRO 1		MARSFO MARSFOG1	TRAVIS	HYDRO	SOUTH	1941	36.0
366	MARSHALL FORD HYDRO 2		MARSFO MARSFOG2	TRAVIS	HYDRO	SOUTH	1941	36.0
367	MARSHALL FORD HYDRO 3		MARSFO MARSFOG3	TRAVIS	HYDRO	SOUTH	1941	29.0
368	WHITNEY DAM HYDRO		WND WHITNEY1	BOSQUE	HYDRO	NORTH	1953	24.0
369	WHITNEY DAM HYDRO 2		WND_WHITNEY2	BOSQUE	HYDRO	NORTH	1953	24.0
370	ARLINGTON OUTLET HYDROELECTRIC FACILITY		DG_OAKHL_1UNIT	TARRANT	HYDRO	NORTH	2014	1.4
371	EAGLE PASS HYDRO		DG_EAGLE_HY_EAGLE_HY1	MAVERICK	HYDRO	SOUTH	2005	9.6
372	GUADALUPE BLANCO RIVER AUTH-CANYON		DG_CANYHY_CANYHYG1	COMAL	HYDRO	SOUTH	1989	6.0
373	GUADALUPE BLANCO RIVER AUTH-LAKEWOOD TAP		DG_LKWDT_2UNITS	GONZALES	HYDRO	SOUTH	1931	4.8
374	GUADALUPE BLANCO RIVER AUTH-MCQUEENEY		DG_MCQUE_5UNITS	GUADALUPE	HYDRO	SOUTH	1928	7.7
375	GUADALUPE BLANCO RIVER AUTH-SCHUMANSVILLE		DG_SCHUM_2UNITS	GUADALUPE	HYDRO	SOUTH	1928	3.6
376	LEWISVILLE HYDRO-CITY OF GARLAND		DG_LWSVL_1UNIT	DENTON	HYDRO	NORTH	1991	2.2
377	**Operational Capacity Total (Hydro)**							**555.1**
378	Hydro Capacity Contribution (Top 20 Hours)		HYDRO_CAP_CONT					437.2
379								
380	Operational Capacity Unavailable due to Extended Outage or Derate		OPERATION UNAVAIL					(175.0)
381	**Operational Capacity Total (Including Hydro and Extend Outage or Derate)**		OPERATION TOTAL					65,916.4
382								
383	**Operational Resources (Switchable)**							
384	TENASKA KIAMICHI STATION 1CT101		KMCHI_1CT101	FANNIN	GAS	NORTH	2003	153.0
385	TENASKA KIAMICHI STATION 1CT201		KMCHI_1CT201	FANNIN	GAS	NORTH	2003	155.0
386	TENASKA KIAMICHI STATION 1ST		KMCHI_1ST	FANNIN	GAS	NORTH	2003	315.0
387	TENASKA KIAMICHI STATION 2CT101		KMCHI_2CT101	FANNIN	GAS	NORTH	2003	153.0
388	TENASKA KIAMICHI STATION 2CT201		KMCHI_2CT201	FANNIN	GAS	NORTH	2003	155.0
389	TENASKA KIAMICHI STATION 2ST		KMCHI_2ST	FANNIN	GAS	NORTH	2003	315.0
390	TENASKA FRONTIER STATION CTG 1		FTR_FTR_G1	GRIMES	GAS	NORTH	2000	160.0
391	TENASKA FRONTIER STATION CTG 2		FTR_FTR_G2	GRIMES	GAS	NORTH	2000	160.0
392	TENASKA FRONTIER STATION CTG 3		FTR_FTR_G3	GRIMES	GAS	NORTH	2000	160.0

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
393	TENASKA FRONTIER STATION STG 4		FTR_FTR_G4	GRIMES	GAS	NORTH	2000	400.0
394	TENASKA GATEWAY STATION CTG 1		TGCCS_CT1	RUSK	GAS	NORTH	2001	156.0
395	TENASKA GATEWAY STATION CTG 2		TGCCS_CT2	RUSK	GAS	NORTH	2001	135.0
396	TENASKA GATEWAY STATION CTG 3		TGCCS_CT3	RUSK	GAS	NORTH	2001	153.0
397	TENASKA GATEWAY STATION STG 4		TGCCS_UNIT4	RUSK	GAS	NORTH	2001	402.0
398	FRONTERA GENERATION CTG 1		FRONTERA_FRONTEG1	HIDALGO	GAS	SOUTH	1999	170.0
399	FRONTERA GENERATION CTG 2		FRONTERA_FRONTEG2	HIDALGO	GAS	SOUTH	1999	170.0
400	FRONTERA GENERATION STG		FRONTERA_FRONTEG3	HIDALGO	GAS	SOUTH	2000	184.0
401	**Switchable Capacity Total**							**3,496.0**
402								
403	Switchable Capacity Unavailable to ERCOT		SWITCH_UNAVAIL		GAS			(300.0)
404								
405	Available Mothball Capacity based on Seasonal Schedule or Owner's Return Probability		MOTH_AVAIL		COAL			805.0
406								
407	Private-Use Network Capacity Contribution (Top 20 Hours)		PUN_CAP_CONT		GAS			4,258.0
408	Private-Use Network Forecast Adjustment (per Protocol 10.3.2.4)		PUN_CAP_ADJUST		GAS			8.0
409								
410	**Operational Resources (Wind)**							
411	ANACACHO WIND		ANACACHO_ANA	KINNEY	WIND	SOUTH	2012	99.8
412	BARTON CHAPEL WIND		BRTSW_BCW1	JACK	WIND	NORTH	2007	120.0
413	BLUE SUMMIT WIND 5		BLSUMMIT_BLSMT1_5	WILBARGER	WIND	WEST	2013	9.0
414	BLUE SUMMIT WIND 6		BLSUMMIT_BLSMT1_6	WILBARGER	WIND	WEST	2013	126.4
415	BOBCAT BLUFF WIND		BCATWIND_WIND_1	ARCHER	WIND	WEST	2012	150.0
416	BRISCOE WIND		BRISCOE_WIND	BRISCOE	WIND	PANHANDLE	2015	149.8
417	BUFFALO GAP WIND 1		BUFF_GAP_UNIT1	TAYLOR	WIND	WEST	2006	120.6
418	BUFFALO GAP WIND 2_1		BUFF_GAP_UNIT2_1	TAYLOR	WIND	WEST	2007	115.5
419	BUFFALO GAP WIND 2_2		BUFF_GAP_UNIT2_2	TAYLOR	WIND	WEST	2007	117.0
420	BUFFALO GAP WIND 3		BUFF_GAP_UNIT3	TAYLOR	WIND	WEST	2008	170.2
421	BULL CREEK WIND U1		BULLCRK_WND1	BORDEN	WIND	WEST	2009	88.0
422	BULL CREEK WIND U2		BULLCRK_WND2	BORDEN	WIND	WEST	2009	90.0
423	CALLAHAN WIND		CALLAHAN_WND1	CALLAHAN	WIND	WEST	2004	114.0
424	CAMP SPRINGS WIND 1		CSEC_CSECG1	SCURRY	WIND	WEST	2007	130.5
425	CAMP SPRINGS WIND 2		CSEC_CSECG2	SCURRY	WIND	WEST	2007	120.0
426	CAPRICORN RIDGE WIND 1		CAPRIDGE_CR1	STERLING	WIND	WEST	2007	214.5
427	CAPRICORN RIDGE WIND 2		CAPRIDGE_CR3	STERLING	WIND	WEST	2008	186.0
428	CAPRICORN RIDGE WIND 3		CAPRIDGE_CR2	STERLING	WIND	WEST	2007	149.5
429	CAPRICORN RIDGE WIND 4		CAPRIDG4_CR4	COKE	WIND	WEST	2008	112.5
430	CEDRO HILL WIND 1		CEDROHIL_CHW1	WEBB	WIND	SOUTH	2010	75.0
431	CEDRO HILL WIND 2		CEDROHIL_CHW2	WEBB	WIND	SOUTH	2010	75.0
432	CHAMPION WIND		CHAMPION_UNIT1	NOLAN	WIND	WEST	2008	126.5
433	DESERT SKY WIND 1		INDNENR_INDNENR	PECOS	WIND	WEST	2002	84.0
434	DESERT SKY WIND 2		INDNENR_INDNENR_2	PECOS	WIND	WEST	2002	76.5
435	ELBOW CREEK WIND		ELB_ELBCREEK	HOWARD	WIND	WEST	2008	118.7
436	FOREST CREEK WIND		MCDLD_FCW1	GLASSCOCK	WIND	WEST	2007	124.2
437	GOAT WIND		GOAT_GOATWIND	STERLING	WIND	WEST	2008	80.0
438	GOAT WIND 2		GOAT_GOATWIN2	STERLING	WIND	WEST	2010	69.6
439	GOLDTHWAITE WIND 1		GWEC_GWEC_G1	MILLS	WIND	NORTH	2014	148.6
440	GRANDVIEW WIND 1 (CONWAY) GV1A		GRANDVW1_GV1A	CARSON	WIND	PANHANDLE	2014	107.4
441	GRANDVIEW WIND 1 (CONWAY) GV1B		GRANDVW1_GV1B	CARSON	WIND	PANHANDLE	2014	103.8
442	GREEN MOUNTAIN WIND (BRAZOS) U1		BRAZ_WND_WND1	SCURRY	WIND	WEST	2003	99.0
443	GREEN MOUNTAIN WIND (BRAZOS) U2		BRAZ_WND_WND2	SCURRY	WIND	WEST	2003	61.0
444	GREEN PASTURES WIND I		GPASTURE_WIND_I	BAYLOR	WIND	WEST	2015	150.0
445	GREEN PASTURES WIND 2		GPASTURE_WIND_II	BAYLOR	WIND	WEST	2015	150.0
446	HACKBERRY WIND		HWF_HWFG1	SHACKELFORD	WIND	WEST	2008	163.5
447	HEREFORD WIND G		HRFDWIND_WIND_G	DEAF SMITH	WIND	PANHANDLE	2015	99.9
448	HEREFORD WIND V		HRFDWIND_WIND_V	DEAF SMITH	WIND	PANHANDLE	2015	100.0
449	HORSE HOLLOW WIND 1		H_HOLLOW_WND1	TAYLOR	WIND	WEST	2005	206.6
450	HORSE HOLLOW WIND 2		HHOLLOW2_WIND1	TAYLOR	WIND	WEST	2006	158.0
451	HORSE HOLLOW WIND 3		HHOLLOW3_WND_1	TAYLOR	WIND	WEST	2006	208.0
452	HORSE HOLLOW WIND 4		HHOLLOW4_WND1	TAYLOR	WIND	WEST	2006	108.0
453	INADALE WIND		INDL_INADALE1	NOLAN	WIND	WEST	2008	196.6
454	INDIAN MESA WIND		INDNNWP_INDNNWP	PECOS	WIND	WEST	2001	82.5
455	JAVELINA WIND 18		BORDAS_JAVEL18	WEBB	WIND	SOUTH	2015	19.7
456	JAVELINA WIND 20		BORDAS_JAVEL20	WEBB	WIND	SOUTH	2015	230.0
457	JUMBO ROAD WIND 1		HRFDWIND_JRDWIND1	DEAF SMITH	WIND	PANHANDLE	2015	146.2
458	JUMBO ROAD WIND 2		HRFDWIND_JRDWIND2	DEAF SMITH	WIND	PANHANDLE	2015	153.6
459	KEECHI WIND 138 KV JOPLIN		KEECHI_U1	JACK	WIND	NORTH	2015	110.0
460	KING MOUNTAIN WIND (NE)		KING_NE_KINGNE	UPTON	WIND	WEST	2001	79.3
461	KING MOUNTAIN WIND (NW)		KING_NW_KINGNW	UPTON	WIND	WEST	2001	79.3
462	KING MOUNTAIN WIND (SE)		KING_SE_KINGSE	UPTON	WIND	WEST	2001	40.3
463	KING MOUNTAIN WIND (SW)		KING_SW_KINGSW	UPTON	WIND	WEST	2001	79.3
464	LANGFORD WIND POWER		LGD_LANGFORD	TOM GREEN	WIND	WEST	2009	155.0
465	LOGANS GAP WIND I U1		LGW_UNIT1	COMANCHE	WIND	NORTH	2015	103.8
466	LOGANS GAP WIND I U2		LGW_UNIT2	COMANCHE	WIND	NORTH	2015	106.3
467	LONE STAR WIND 1 (MESQUITE)		LNCRK_G83	SHACKELFORD	WIND	WEST	2006	200.0
468	LONE STAR WIND 2 (POST OAK) U1		LNCRK2_G871	SHACKELFORD	WIND	WEST	2007	100.0
469	LONE STAR WIND 2 (POST OAK) U2		LNCRK2_G872	SHACKELFORD	WIND	WEST	2007	100.0
470	LONGHORN WIND NORTH U1		LHORN_N_UNIT1	FLOYD	WIND	PANHANDLE	2015	100.0
471	LONGHORN WIND NORTH U2		LHORN_N_UNIT2	FLOYD	WIND	PANHANDLE	2015	100.0
472	LORAINE WINDPARK I		LONEWOLF_G1	MITCHELL	WIND	WEST	2009	49.5
473	LORAINE WINDPARK II		LONEWOLF_G2	MITCHELL	WIND	WEST	2009	51.0
474	LORAINE WINDPARK III		LONEWOLF_G3	MITCHELL	WIND	WEST	2011	25.5
475	LORAINE WINDPARK IV		LONEWOLF_G4	MITCHELL	WIND	WEST	2011	24.0
476	LOS VIENTOS III WIND		LV3_UNIT_1	STARR	WIND	SOUTH	2015	200.0
477	MESQUITE CREEK WIND 1		MESQCRK_WND1	DAWSON	WIND	WEST	2015	105.6
478	MESQUITE CREEK WIND 2		MESQCRK_WND2	DAWSON	WIND	WEST	2015	105.6
479	MIAMI WIND G1		MIAM1_G1	GRAY	WIND	PANHANDLE	2014	144.3
480	MIAMI WIND G2		MIAM1_G2	GRAY	WIND	PANHANDLE	2014	144.3
481	MCADOO WIND		MWEC_G1	DICKENS	WIND	PANHANDLE	2008	150.0
482	NOTREES WIND 1		NWF_NWF1	WINKLER	WIND	WEST	2009	92.6
483	NOTREES WIND 2		NWF_NWF2	WINKLER	WIND	WEST	2009	60.0
484	OCOTILLO WIND		OWF_OWF	HOWARD	WIND	WEST	2008	58.8
485	PANHANDLE WIND 1 U1		PH1_UNIT1	CARSON	WIND	PANHANDLE	2014	109.2
486	PANHANDLE WIND 1 U2		PH1_UNIT2	CARSON	WIND	PANHANDLE	2014	109.2
487	PANHANDLE WIND 2 U1		PH2_UNIT1	CARSON	WIND	PANHANDLE	2014	94.2
488	PANHANDLE WIND 2 U2		PH2_UNIT2	CARSON	WIND	PANHANDLE	2014	96.6
489	PANTHER CREEK WIND 1		PC_NORTH_PANTHER1	HOWARD	WIND	WEST	2008	142.5
490	PANTHER CREEK WIND 2		PC_SOUTH_PANTHER2	HOWARD	WIND	WEST	2008	115.5

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
491	PANTHER CREEK WIND 3		PC_SOUTH_PANTHER3	HOWARD	WIND	WEST	2009	199.5
492	PECOS WIND 1 (WOODWARD)		WOODWRD1_WOODWRD1	PECOS	WIND	WEST	2001	82.5
493	PECOS WIND 2 (WOODWARD)		WOODWRD2_WOODWRD2	PECOS	WIND	WEST	2001	77.2
494	PYRON WIND		PYR_PYRON1	SCURRY	WIND	WEST	2008	249.0
495	RATTLESNAKE DEN WIND PHASE 1 G1		RSNAKE_G1	GLASSCOCK	WIND	WEST	2015	104.3
496	RATTLESNAKE DEN WIND PHASE 1 G2		RSNAKE_G2	GLASSCOCK	WIND	WEST	2015	103.0
497	RED CANYON WIND		RDCANYON_RDCNY1	BORDEN	WIND	WEST	2006	84.0
498	ROSCOE WIND		TKWSW1_ROSCOE	NOLAN	WIND	WEST	2008	209.0
499	ROUTE 66 WIND		ROUTE_66_WIND1	CARSON	WIND	PANHANDLE	2015	150.0
500	SAND BLUFF WIND		MCDLD_SBW1	GLASSCOCK	WIND	WEST	2008	90.0
501	SENDERO WIND ENERGY		EXGNSND_WIND_1	JIM HOGG	WIND	SOUTH	2015	76.0
502	SENATE WIND		SENATEWD_UNIT1	JACK	WIND	NORTH	2012	150.0
503	SHANNON WIND		SHANNONW_UNIT_1	CLAY	WIND	WEST	2015	204.1
504	SHERBINO 1 WIND		KEO_KEO_SM1	PECOS	WIND	WEST	2008	150.0
505	SHERBINO 2 WIND		KEO_SHRBINO2	PECOS	WIND	WEST	2011	147.5
506	SILVER STAR WIND		FLTCK_SSI	EASTLAND	WIND	NORTH	2008	60.0
507	SNYDER WIND		ENAS_ENA1	SCURRY	WIND	WEST	2007	63.0
508	SOUTH PLAINS WIND I		SPLAIN1_WIND1	FLOYD	WIND	PANHANDLE	2015	102.0
509	SOUTH PLAINS WIND 2		SPLAIN1_WIND2	FLOYD	WIND	PANHANDLE	2015	98.0
510	SOUTH TRENT WIND		STWF_T1	NOLAN	WIND	WEST	2008	98.2
511	SPINNING SPUR WIND TWO		SSPURTWO_WIND_1	OLDHAM	WIND	PANHANDLE	2014	161.0
512	SPINNING SPUR 3 [WIND 1]		SSPURTWO_SS3WIND1	OLDHAM	WIND	PANHANDLE	2015	96.0
513	SPINNING SPUR 3 [WIND 2]		SSPURTWO_SS3WIND2	OLDHAM	WIND	PANHANDLE	2015	98.0
514	STANTON WIND ENERGY		SWEC_G1	MARTIN	WIND	WEST	2008	120.0
515	STEPHENS RANCH WIND 1		SRWE1_UNIT1	BORDEN	WIND	WEST	2014	211.2
516	STEPHENS RANCH WIND 2		SRWE1_SRWE2	BORDEN	WIND	WEST	2015	164.7
517	SWEETWATER WIND 1		SWEETWND_WND1	NOLAN	WIND	WEST	2003	36.6
518	SWEETWATER WIND 2A		SWEETWN2_WND24	NOLAN	WIND	WEST	2006	18.1
519	SWEETWATER WIND 2B		SWEETWN2_WND2	NOLAN	WIND	WEST	2004	117.0
520	SWEETWATER WIND 3A		SWEETWN3_WND3A	NOLAN	WIND	WEST	2011	28.5
521	SWEETWATER WIND 3B		SWEETWN3_WND3B	NOLAN	WIND	WEST	2011	100.5
522	SWEETWATER WIND 4-5		SWEETWN4_WND5	NOLAN	WIND	WEST	2007	79.2
523	SWEETWATER WIND 4-4B		SWEETWN4_WND4B	NOLAN	WIND	WEST	2007	103.7
524	SWEETWATER WIND 4-4A		SWEETWN4_WND4A	NOLAN	WIND	WEST	2007	117.8
525	TEXAS BIG SPRING WIND a		SGMTN_SIGNALMT	HOWARD	WIND	WEST	1999	27.7
526	TEXAS BIG SPRING WIND b		SGMTN_SIGNALM2	HOWARD	WIND	WEST	1999	6.6
527	TRENT WIND		TRENT_TRENT	NOLAN	WIND	WEST	2001	150.0
528	TRINITY HILLS WIND 1		TRINITY_TH1_BUS1	YOUNG	WIND	WEST	2012	117.5
529	TRINITY HILLS WIND 2		TRINITY_TH1_BUS2	YOUNG	WIND	WEST	2012	107.5
530	TURKEY TRACK WIND		TTWEC_G1	NOLAN	WIND	WEST	2008	169.5
531	WEST TEXAS WIND		SW_MESA_SW_MESA	UPTON	WIND	WEST	1999	80.3
532	WHIRLWIND ENERGY		WEC_WECG1	FLOYD	WIND	PANHANDLE	2007	57.0
533	WHITETAIL WIND		EXGNWTL_WIND_1	WEBB	WIND	SOUTH	2012	91.0
534	WINDTHORST 2 WIND		WNDTHST2_UNIT1	ARCHER	WIND	WEST	2014	67.6
535	WKN MOZART WIND		MOZART_WIND_1	KENT	WIND	WEST	2012	30.0
536	WOLF RIDGE WIND		WHTTAIL_WR1	COOKE	WIND	NORTH	2008	112.5
537	TSTC WEST TEXAS WIND		DG_ROSC2_1UNIT	NOLAN	WIND	WEST	2008	2.0
538	WOLF FLATS WIND (WIND MGT)		DG_TURL_UNIT1	HALL	WIND	PANHANDLE	2007	1.0
539	**Operational Wind Capacity Sub-total (Non-Coastal Counties)**							**14,106.7**
540	Wind Peak Average Capacity Percentage (Non-Coastal)		WIND_PEAK_PCT_NC	%				12.0
541								
542	CAMERON COUNTY WIND [CAMWIND_UNIT1]		CAMWIND_UNIT1	CAMERON	WIND-C	COASTAL	2016	165.0
543	GULF WIND I		TGW_T1	KENEDY	WIND-C	COASTAL	2010	141.6
544	GULF WIND II		TGW_T2	KENEDY	WIND-C	COASTAL	2010	141.6
545	LOS VIENTOS WIND I		LV1_LV1A	WILLACY	WIND-C	COASTAL	2013	200.1
546	LOS VIENTOS WIND II		LV1_LV1B	WILLACY	WIND-C	COASTAL	2013	201.6
547	MAGIC VALLEY WIND (REDFISH) 1A		REDFISH_MV1A	WILLACY	WIND-C	COASTAL	2012	99.8
548	MAGIC VALLEY WIND (REDFISH) 1B		REDFISH_MV1B	WILLACY	WIND-C	COASTAL	2012	103.5
549	PAPALOTE CREEK WIND		PAP1_PAP1	SAN PATRICIO	WIND-C	COASTAL	2009	179.9
550	PAPALOTE CREEK WIND II		COTTON_PAP2	SAN PATRICIO	WIND-C	COASTAL	2010	200.1
551	PENASCAL WIND 1		PENA_UNIT1	KENEDY	WIND-C	COASTAL	2009	160.8
552	PENASCAL WIND 2		PENA_UNIT2	KENEDY	WIND-C	COASTAL	2009	141.6
553	PENASCAL WIND 3		PENA3_UNIT3	KENEDY	WIND-C	COASTAL	2011	100.8
554	HARBOR WIND		DG_NUECE_6UNITS	NUECES	WIND-C	COASTAL	2012	9.0
555	**Operational Wind Capacity Sub-total (Coastal Counties)**							**1,845.4**
556	Wind Peak Average Capacity Percentage (Coastal)		WIND_PEAK_PCT_C	%				55.0
557								
558	Operational Wind Capacity Total (All Counties)		WIND_OPERATIONAL					15,952.1
559								
560	**Operational Resources (Solar)**							
561	ACACIA SOLAR		ACACIA_UNIT_1	PRESIDIO	SOLAR	WEST	2012	10.0
562	FS BARILLA SOLAR-PECOS		HOVEY_UNIT1	PECOS	SOLAR	WEST	2014	22.0
563	OCI ALAMO 1 SOLAR		OCI_ALM1_UNIT1	BEXAR	SOLAR	SOUTH	2013	39.2
564	OCI ALAMO 4 SOLAR-BRACKETVILLE		ECLIPSE_UNIT1	KINNEY	SOLAR	SOUTH	2014	37.6
565	OCI ALAMO 5 (DOWNIE RANCH)		HELIOS_UNIT1	UVALDE	SOLAR	SOUTH	2015	95.0
566	WEBBERVILLE SOLAR		WEBBER_S_WSP1	TRAVIS	SOLAR	SOUTH	2011	26.7
567	BLUE WING 1 SOLAR		DG_BROOK_1UNIT	BEXAR	SOLAR	SOUTH	2010	7.6
568	BLUE WING 2 SOLAR		DG_ELEM_1UNIT	BEXAR	SOLAR	SOUTH	2010	7.3
569	OCI ALAMO 2 SOLAR-ST. HEDWIG		DG_STHWG_UNIT1	BEXAR	SOLAR	SOUTH	2014	4.4
570	OCI ALAMO 3-WALZEM SOLAR		DG_WALZM_UNIT1	BEXAR	SOLAR	SOUTH	2014	5.5
571	RENEWABLE ENERGY ALTERNATIVES-CCS1		DG_COSERVSS_CCS1	DENTON	SOLAR	NORTH	2015	2.0
572	SUNEDISON CPS3 SOMERSET 1 SOLAR		DG_SOME1_1UNIT	BEXAR	SOLAR	SOUTH	2012	5.6
573	SUNEDISON SOMERSET 2 SOLAR		DG_SOME2_1UNIT	BEXAR	SOLAR	SOUTH	2012	5.0
574	SUNEDISON RABEL ROAD SOLAR		DG_VALL1_1UNIT	BEXAR	SOLAR	SOUTH	2012	9.9
575	SUNEDISON VALLEY ROAD SOLAR		DG_VALL2_1UNIT	BEXAR	SOLAR	SOUTH	2012	9.9
576	**Operational Capacity Total (Solar)**							**287.7**
577	Solar Peak Average Capacity Percentage		SOLAR_PEAK_PCT	%				80.0
578								
579	Reliability Must-Run (RMR) Capacity		RMR_CAP_CONT		GAS			-
580								
581	**Non-Synchronous Tie Resources**							
582	EAST TIE		DC_E	FANNIN		NORTH		600.0
583	NORTH TIE		DC_N	WILBARGER		WEST		220.0
584	EAGLE PASS TIE		DC_S	MAVERICK		SOUTH		30.0
585	LAREDO VFT TIE		DC_L	WEBB		SOUTH		100.0
586	SHARYLAND RAILROAD TIE		DC_R	HIDALGO		SOUTH		150.0
587	SHARYLAND RAILROAD TIE 2		DC_R2	HIDALGO		SOUTH		150.0
588	**Non-Synchronous Ties Total**							**1,250.0**

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
589	Non-Synchronous Ties Capacity Contribution (Top 20 Hours)		DCTIE_CAP_CONT		OTHER			577.0
590								
591	**Planned Thermal Resources with Executed SGIA, Air Permit, GHG Permit and Water Rights**							
592	COLORADO BEND II	17INR0007		WHARTON	GAS	SOUTH	2017	-
593	TEXAS CLEAN ENERGY PROJECT	13INR0023		ECTOR	COAL	WEST	2019	-
594	FGE TEXAS I PROJECT	16INR0010		MITCHELL	GAS	WEST	2018	-
595	ANTELOPE 1-3 IC & ELK CTG 1 (SWITCHABLE)	13INR0028		HALE	GAS	PANHANDLE	2016	-
596	LA PALOMA ENERGY CENTER PROJECT	16INR0004		CAMERON	GAS	COASTAL	2018	-
597	PHR PEAKERS [BAC_CTG1-6]	14INR0038		GALVESTON	GAS	HOUSTON	2016	-
598	SKY GLOBAL POWER ONE	16INR0057		COLORADO	GAS	SOUTH	2016	51.4
599	INDECK WHARTON ENERGY CENTER PROJECT	15INR0023		WHARTON	GAS	SOUTH	2019	-
600	PINECREST ENERGY CENTER PROJECT	16INR0006		ANGELINA	GAS	NORTH	2017	-
601	RED GATE IC PLANT [REDGATE_AGR_A-D]	14INR0040		HIDALGO	GAS	SOUTH	2016	225.0
602	ELK STATION CTG 2 (SWITCHABLE)	15INR0032		HALE	GAS	PANHANDLE	2016	202.0
603	ELK STATION CTG 3	15INR0033		HALE	GAS	PANHANDLE	2016	202.0
604	WOLF HOLLOW 2	17INR0009		HOOD	GAS	NORTH	2017	-
605	FRIENDSWOOD G	13INR0049		HARRIS	GAS	HOUSTON	2017	-
606	BETHEL CAES PROJECT	15INR0013		ANDERSON	STORAGE	NORTH	2018	-
607	HALYARD HENDERSON	16INR0045		HENDERSON	GAS	NORTH	2018	-
608	HALYARD WHARTON ENERGY CENTER	16INR0044		WHARTON	GAS	SOUTH	2017	-
609	**Planned Capacity Total (Coal, Gas & Storage)**							**680.4**
610								
611	**Planned Wind Resources with Executed SGIA**							
612	ALBERCAS WIND	15INR0049		ZAPATA	WIND	SOUTH	2016	-
613	GUNSIGHT MOUNTAIN WIND	08INR0018		HOWARD	WIND	WEST	2016	-
614	BAFFIN WIND [BAFFIN_UNIT1-2]	06INR0022c		KENEDY	WIND-C	COASTAL	2016	-
615	MIDWAY FARMS WIND	11INR0054		SAN PATRICIO	WIND-C	COASTAL	2017	-
616	LONGHORN WIND SOUTH	14INR0023b		BRISCOE	WIND	PANHANDLE	2017	-
617	MARIAH WIND A	13INR0010a		PARMER	WIND	PANHANDLE	2017	-
618	MARIAH WIND B	13INR0010b		PARMER	WIND	PANHANDLE	2016	-
619	MARIAH DEL SUR	13INR0010c		PARMER	WIND	PANHANDLE	2017	-
620	RATTLESNAKE DEN WIND 2	13INR0020b		GLASSCOCK	WIND	WEST	2017	-
621	PATRIOT WIND (PETRONILLA)	11INR0062		NUECES	WIND-C	COASTAL	2017	-
622	COMANCHE RUN WIND	12INR0029		SWISHER	WIND	PANHANDLE	2018	-
623	PAMPA WIND	12INR0018		GRAY	WIND	PANHANDLE	2017	-
624	SOUTH PLAINS WIND II	14INR0025b		FLOYD	WIND	PANHANDLE	2016	151.8
625	SOUTH PLAINS WIND III	14INR0025c		FLOYD	WIND	PANHANDLE	2016	148.5
626	WAKE WIND	14INR0047		DICKENS	WIND	PANHANDLE	2016	-
627	DOUG COLBECK'S CORNER (CONWAY)	13INR0005b		CARSON	WIND	PANHANDLE	2016	-
628	GRANDVIEW WIND 3 (CONWAY)	13INR0005c		CARSON	WIND	PANHANDLE	2016	-
629	SCANDIA WIND DEF	13INR0010def		PARMER	WIND	PANHANDLE	2017	-
630	PULLMAN ROAD WIND	15INR0079		RANDALL	WIND	PANHANDLE	2016	-
631	PANHANDLE WIND 3	14INR0030c		CARSON	WIND	PANHANDLE	2016	-
632	SALT FORK WIND	14INR0062		GRAY	WIND	PANHANDLE	2016	-
633	LOS VIENTOS IV WIND	15INR0037		STARR	WIND	SOUTH	2016	-
634	LOS VIENTOS V WIND [LV5_UNIT_1]	15INR0021		STARR	WIND	SOUTH	2016	110.0
635	PALO DURO WIND	15INR0050		DEAF SMITH	WIND	PANHANDLE	2018	-
636	CAPROCK WIND	10INR0009		CASTRO	WIND	PANHANDLE	2017	-
637	SAN ROMAN WIND	14INR0013		CAMERON	WIND-C	COASTAL	2016	-
638	TORRECILLAS WIND A	14INR0045a		WEBB	WIND	SOUTH	2016	-
639	TORRECILLAS WIND B	14INR0045b		WEBB	WIND	SOUTH	2016	-
640	CHANGING WINDS	13INR0045		CASTRO	WIND	PANHANDLE	2017	-
641	ELECTRA WIND	16INR0062a		WILBARGER	WIND	WEST	2016	-
642	LOCKETT WIND FARM	16INR0062b		WILBARGER	WIND	WEST	2017	-
643	HORSE CREEK WIND	14INR0060		HASKELL	WIND	WEST	2016	-
644	WILLOW SPRINGS WIND	14INR0060b		HASKELL	WIND	WEST	2016	-
645	MUENSTER WIND	15INR0085		COOKE	WIND	NORTH	2016	-
646	HAPPY WHITEFACE WIND	15INR0074		DEAF SMITH	WIND	PANHANDLE	2016	-
647	CHAPMAN RANCH WIND I	16INR0055		NUECES	WIND-C	COASTAL	2017	-
648	HIDALGO & STARR WIND	16INR0024		HIDALGO	WIND	SOUTH	2016	-
649	BLANCO CANYON WIND (COTTON PLAINS)	16INR0037		FLOYD	WIND	PANHANDLE	2016	-
650	BLANCO CANYON WIND (OLD SETTLER)	16INR0037b		FLOYD	WIND	PANHANDLE	2017	-
651	PUMPKIN FARM WIND	16INR0037c		FLOYD	WIND	PANHANDLE	2017	-
652	ROCK SPRINGS VAL VERDE WIND	11INR0082a		VAL VERDE	WIND	WEST	2016	-
653	MAGIC VALLEY WIND II (REDFISH 2A and 2B)	14INR0041a		WILLACY	WIND-C	COASTAL	2017	-
654	SALT FORK WIND 2	16INR0082		CARSON	WIND	PANHANDLE	2017	-
655	SANTA RITA WIND	16INR0091		REAGAN	WIND	WEST	2016	-
656	SWISHER WIND	13INR0038		SWISHER	WIND	PANHANDLE	2017	-
657	BUCKTHORN WIND 1	14INR0057		ERATH	WIND	NORTH	2016	-
658	FLUVANNA RENEWABLE 1	13INR0056		SCURRY	WIND	WEST	2017	-
659	RTS WIND	16INR0087		MCCULLOCH	WIND	SOUTH	2016	-
660	SILVER CANYON WIND A	12INR0002a		BRISCOE	WIND	PANHANDLE	2017	-
661	LOGAN'S GAP WIND II	15INR0082		COMANCHE	WIND	NORTH	2017	-
662	**Planned Capacity Total (Wind)**							**410.3**
663								
664	Planned Wind Capacity Sub-total (Non-Coastal Counties)		WIND_PLANNED_NC					410.3
665	Wind Peak Average Capacity Percentage (Non-Coastal)		WIND_PL_PEAK_PCT_NC	%				12.0
666								
667	Planned Wind Capacity Sub-total (Coastal Counties)		WIND_PLANNED_C					-
668	Wind Peak Average Capacity Percentage (Coastal)		WIND_PL_PEAK_PCT_C	%				55.0
669								
670	**Planned Solar Resources with Executed SGIA**							
671	FS BARILLA SOLAR 1B [HOVEY_UNIT2]	12INR0059b		PECOS	SOLAR	WEST	2016	7.4
672	FS BARILLA SOLAR 2	12INR0059c		PECOS	SOLAR	WEST	2017	-
673	RE ROSEROCK SOLAR	16INR0048		PECOS	SOLAR	WEST	2016	-
674	OCI ALAMO 6 (WEST TEXAS)	15INR0070_1		PECOS	SOLAR	WEST	2016	-
675	OCI ALAMO 6 (WEST TEXAS PHASE II)	15INR0070_1b		PECOS	SOLAR	WEST	2016	-
676	SE BUCKTHORN WESTEX SOLAR (RIGGINS SOLAR)	15INR0045		PECOS	SOLAR	WEST	2016	-
677	FS EAST PECOS SOLAR	16INR0073		PECOS	SOLAR	WEST	2016	-
678	OCI ALAMO 7 (PAINT CREEK)	16INR0052		HASKELL	SOLAR	WEST	2016	-
679	LC NAZARETH SOLAR	16INR0049		CASTRO	SOLAR	PANHANDLE	2016	-
680	PECOS SOLAR POWER I	15INR0059		PECOS	SOLAR	WEST	2017	-
681	BNB LAMESA SOLAR	16INR0023		DAWSON	SOLAR	WEST	2016	-
682	CAPRICORN RIDGE SOLAR	16INR0019		COKE	SOLAR	WEST	2016	-
683	UPCO POWER 1 (SP-TX-12)	16INR0065		UPTON	SOLAR	WEST	2017	-
684	CASTLE GAP SOLAR 2	16INR0065a		UPTON	SOLAR	WEST	2017	-
685	SP-TX-12-PHASE B	16INR0065B		UPTON	SOLAR	WEST	2016	-
686	SOLAIREHOLMAN 1	15INR0061		BREWSTER	SOLAR	WEST	2017	-

	UNIT NAME	GENERATION INTERCONNECTION PROJECT CODE	UNIT CODE	COUNTY	FUEL	ZONE	START YEAR	CAPACITY (MW)
687	UPTON SOLAR	16INR0114		UPTON	SOLAR	WEST	2017	-
688	**Planned Capacity Total (Solar)**							**7.4**
689	Solar Peak Average Capacity Percentage		SOLAR_PL_PEAK_PCT	%				80.0
690								
691	**Seasonal Mothballed Resources**							
692	MARTIN LAKE U2 (AS OF 10/1/2015)		MLSES_UNIT2	RUSK	COAL	NORTH	1978	805.0
693	**Total Seasonal Mothballed Capacity**							**805.0**
694								
695	**Mothballed Resources**							
696	GREENS BAYOU STG U5 (AS OF 6/27/2016)		GBY_GBY_5	HARRIS	GAS	HOUSTON	1973	371.0
697	J T DEELY U1 (AS OF 12/31/2018)		CALAVERS_JTD1_M	BEXAR	COAL	SOUTH	1918	420.0
698	J T DEELY U2 (AS OF 12/31/2018)		CALAVERS_JTD2_M	BEXAR	COAL	SOUTH	1918	420.0
699	LUFKIN BIOMASS (AS OF 7/6/2016)		LFBIO_UNIT1	ANGELINA	BIOMASS	NORTH	2012	45.0
700	S R BERTRON CTG 2 (SINCE 5/15/2013)		SRB_SRBGT_2	HARRIS	GAS	HOUSTON	1967	13.0
701	S R BERTRON U1 (SINCE 5/15/2013)		SRB_SRB_G1	HARRIS	GAS	HOUSTON	1958	118.0
702	S R BERTRON U2 (SINCE 5/15/2013)		SRB_SRB_G2	HARRIS	GAS	HOUSTON	1956	174.0
703	S R BERTRON U3 (SINCE 5/22/2013)		SRB_SRB_G3	HARRIS	GAS	HOUSTON	1959	211.0
704	S R BERTRON U4 (SINCE 5/22/2013)		SRB_SRB_G4	HARRIS	GAS	HOUSTON	1960	211.0
705	W A PARISH - PETRA NOVA CTG (AS OF 5/19/2016)		PNPI_GT2	FORT BEND	GAS	HOUSTON	2013	74.0
706	**Total Mothballed Capacity**							**2,057.0**
707								
708	**Retiring Resources Unavailable to ERCOT (since last CDR)**							
709	FRONTERA GENERATION CTG 1 (Not Available for ERCOT after 10/1/2016)		FRONTERA_FRONTEG1_RET	HIDALGO	GAS	SOUTH	1916	170.0
710	FRONTERA GENERATION CTG 2 (Not Available for ERCOT after 10/1/2016)		FRONTERA_FRONTEG2_RET	HIDALGO	GAS	SOUTH	1916	170.0
711	FRONTERA GENERATION STG (Not Available for ERCOT after 10/1/2016)		FRONTERA_FRONTEG3_RET	HIDALGO	GAS	SOUTH	2016	184.0
712	**Total Retiring Capacity (since last CDR)**							**524.0**

Release Date: May 3, 2016

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 one-in-ten-years loss-of-load event criteria on a probabilistic basis.

For seasonal assessments that look ahead less than a year, specific information may be available (such as seasonal climate forecasts or anticipated common-mode events such as drought) which can be used to consider the range of resource adequacy in a more deterministic manner.

In contrast to the Capacity, Demand and Reserves (CDR) report, which addresses the sufficiency of planning reserves on an annual basis as described above, the SARA report focuses on the availability of sufficient operating reserves to avoid emergency actions such as deployment of voluntary load reduction resources. Consequently, load reduction resources included in the CDR report, such as Emergency Response Service (ERS) and Load Resources that provide operating reserves (LRs), are excluded from the SARA.

The SARA report is intended to illustrate the range of resource adequacy outcomes that might occur, and thus help fulfill the reporting requirement per Public Utility Commission of Texas rule 25.362(i)(2)(H). Several sensitivity analyses are developed by varying the value of certain parameters that affect resource adequacy. The variation in these parameters is based on historic values of these parameters or adjustments by any known or expected changes.