

NRC000027

05/09/2011

Assumptions in Model:

	Switchables
	New unit added to the 2010 list
	Private use network generation
	RMR
	New unit with signed interconnect and air permit
	Mothballs
	Uncertain on technology type

- All four STP units removed from this case.
- Mothballs removed from dispatch.
- 2009 Actual ERCOT load by hour.
- New units with signed interconnect and air permit are not included in dispatch.
- Gas price used (fuel index price on next tab) is from 2009 State of the Market report.
- Unit fuel cost data is from Section 6.8.2.1 of the Zonal Protocols - Resource Category Generic Costs
- Start Up costs are not included.
- LaaRs, DC Ties and Block Load Transfers were separated by 0.10 heat rates for purposes of this model.
- Renewable availability factors are based on the hourly average of the actual wind capacity factors in 2009 (file ERCOT_2009_Hourly_Wind_Output)
- Availability factors for all unit types except wind, LaaRs, DC ties and BLTs are from NERC 2005-2009 Generating Availability Reports (EAF).
- Distributed generation given a dispatch rank of 12. They are indicated by mnemonic of DG in unit dispatch list.
- PUN plants > 300 MW assumed CC greater than 90 MW, i.e., dispatch rank = 5
- PUN plants < 300 MW but > 150 assumed CC less than 90 MW, i.e., dispatch rank = 6
- PUN plants < 150 MW but > 90 assumed simple cycle greater than 90 MW, i.e., dispatch rank = 9
- PUN plants < 90 MW assumed simple cycle less than 90 MW, i.e., dispatch rank = 11
- A proxy Block Load Transfer of 1,500 MWs is included.

\$ 3.74

[illegible]

Rank		Tech Type	In service	MW from CDR	Availability Factor	Corrected MWs	Cumulative MWs
1	1 Pyron Wind Farm	Wind	2007	249.0	0.245	61.0	61.0
2	1 Buffalo Gap Wind Farm 2	Wind	2006	233.0	0.245	57.1	118.0
3	1 Horse Hollow Wind 3	Wind	2006	220.0	0.245	53.9	171.9
4	1 Horse Hollow Wind 1	Wind	2008	210.0	0.245	51.4	223.4
5	1 Capricorn Ridge Wind 1	Wind	2007	200.0	0.245	49.0	272.3
6	1 Mesquite Wind	Wind	2006	200.0	0.245	49.0	321.3
7	1 Panther Creek 3	Wind	2009	200.0	0.245	49.0	370.3
8	1 Penascal Wind	Wind	2010	200.0	0.245	49.0	419.3
9	1 Roscoe Wind Farm	Wind	2006	200.0	0.245	49.0	468.3
10	1 Inadale Wind	Wind	2006	197.0	0.245	48.2	516.5
11	1 Capricorn Ridge Wind 2	Wind	2007	186.0	0.245	45.6	562.1
12	1 Horse Hollow Wind 4	Wind	2006	180.0	0.245	44.1	606.2
13	1 Papalote Creek Wind Farm	Wind	2010	180.0	0.245	44.1	650.3
14	1 Turkey Track Wind Energy Center	Wind	2008	170.0	0.245	41.6	691.9
15	1 Hackberry Wind Farm	Wind	2008	165.0	0.245	40.4	732.3
16	1 Notrees-1	Wind	2008	153.0	0.245	37.5	769.8
17	1 Buffalo Gap Wind Farm 3	Wind	2007	150.0	0.245	36.7	806.5
18	1 Goat Wind	Wind	2008	150.0	0.245	36.7	843.2
19	1 Langford Wind Power	Wind	2010	150.0	0.245	36.7	880.0
20	1 McAdoo Wind Farm	Wind	2008	150.0	0.245	36.7	916.7
21	1 Sherbino I	Wind	2008	150.0	0.245	36.7	953.5
22	1 Trent Wind Farm	Wind	1999	150.0	0.245	36.7	990.2
23	1 Gulf Wind I	Wind	2003	143.0	0.245	35.0	1025.2
24	1 Panther Creek 1	Wind	2008	143.0	0.245	35.0	1060.2
25	1 Capricorn Ridge Wind 3	Wind	2008	140.0	0.245	34.3	1094.5
26	1 Gulf Wind II	Wind	2008	140.0	0.245	34.3	1128.8
27	1 Desert Sky Wind Farm 2	Wind	2002	135.0	0.245	33.1	1161.9
28	1 Camp Springs 1	Wind	2004	130.0	0.245	31.8	1193.7
29	1 Sweetwater Wind 4	Wind	2004	130.0	0.245	31.8	1225.6
30	1 Loraine Windpark I	Wind	2009	126.0	0.245	30.9	1256.4
31	1 Loraine Windpark II	Wind	2009	125.0	0.245	30.6	1287.0
32	1 Forest Creek Wind Farm	Wind	2008	124.0	0.245	30.4	1317.4
33	1 Barton Chapel Wind	Wind	2007	120.0	0.245	29.4	1346.8
34	1 Buffalo Gap Wind Farm 1	Wind	2006	120.0	0.245	29.4	1376.2
35	1 Camp Springs 2	Wind	2007	120.0	0.245	29.4	1405.6
36	1 Champion Wind Farm	Wind	2008	120.0	0.245	29.4	1435.0
37	1 Stanton Wind Energy	Wind	2008	120.0	0.245	29.4	1464.4
38	1 Sweetwater Wind 7	Wind	2007	119.0	0.245	29.1	1493.5
39	1 Elbow Creek Wind Project	Wind	2008	117.0	0.245	28.7	1522.2
40	1 Capricorn Ridge Wind 4	Wind	2007	115.0	0.245	28.2	1550.3
41	1 Horse Hollow Wind 2	Wind	2005	115.0	0.245	28.2	1578.5
42	1 Panther Creek 2	Wind	2008	115.0	0.245	28.2	1606.7
43	1 Callahan Wind	Wind	2004	114.0	0.245	27.9	1634.6
44	1 Wolfe Ridge	Wind	2008	113.0	0.245	27.7	1662.2
45	1 Sweetwater Wind 6	Wind	2007	105.0	0.245	25.7	1688.0
46	1 Penascal Wind	Wind	2001	101.0	0.245	24.7	1712.7
47	1 Penascal Wind	Wind	2008	101.0	0.245	24.7	1737.4
48	1 Nacogdoches Project	Biomass		0.0	0.245	0.0	1737.4
49	1 Post Oak Wind 1	Wind	2008	100.0	0.245	24.5	1761.9
50	1 Post Oak Wind 2	Wind	2007	100.0	0.245	24.5	1786.4
51	1 Sweetwater Wind 3	Wind	2006	100.0	0.245	24.5	1810.9

52	1 Green Mountain Energy 1	BRAZ_WND_WND1	Wind	2008	99.0	0.245	24.2	1835.2
53	1 South Trent Wind Farm	STWF_T1	Wind	2007	98.0	0.245	24.0	1859.2
54	1 Bull Creek Wind Plant	BULLCRK_WND1	Wind	2008	91.0	0.245	22.3	1881.4
55	1 Sand Bluff Wind Farm	MCDLD_SBW1	Wind	2008	90.0	0.245	22.0	1903.5
56	1 Bull Creek Wind Plant	BULLCRK_WND2	Wind	2008	89.0	0.245	21.8	1925.3
57	1 Red Canyon	RDCANYON_RDCNY1	Wind	2008	84.0	0.245	20.6	1945.9
58	1 Indian Mesa Wind Farm	INDNNWP_INDNNWP	Wind	2008	80.0	0.245	19.6	1965.5
59	1 King Mountain NE	KING_NE_KINGNE	Wind	2001	80.0	0.245	19.6	1985.0
60	1 King Mountain NW	KING_NW_KINGNW	Wind	2001	80.0	0.245	19.6	2004.6
61	1 King Mountain SW	KING_SW_KINGSW	Wind	2001	80.0	0.245	19.6	2024.2
62	1 Pecos Wind (Woodward 1)	WOODWRD1_WOODWRD1	Wind	2008	80.0	0.245	19.6	2043.8
63	1 Pecos Wind (Woodward 2)	WOODWRD2_WOODWRD2	Wind	2001	80.0	0.245	19.6	2063.4
64	1 Sweetwater Wind 5	SWEETWN4_WND5	Wind	2005	80.0	0.245	19.6	2083.0
65	1 West Texas Wind Energy	SW_MESA_SW_MESA	Wind	1999	70.0	0.245	17.1	2100.2
66	1 Snyder Wind Farm	ENAS_ENA1	Wind	2007	63.0	0.245	15.4	2115.6
67	1 Green Mountain Energy 2	BRAZ_WND_WND2	Wind	2003	61.0	0.245	14.9	2130.5
68	1 Silver Star	FLTCK_SSI	Wind	2008	60.0	0.245	14.7	2145.2
69	1 Whirlwind Energy	WEC_WECG1	Wind	1999	60.0	0.245	14.7	2159.9
70	1 Ocotillo Wind Farm	OWF_OW	Wind	2008	59.0	0.245	14.5	2174.4
71	1 Lufkin	08INR0033	Biomass		0.0	0.245	0.0	2174.4
72	1 King Mountain SE	KING_SE_KINGSE	Wind	2001	43.0	0.245	10.5	2184.9
73	1 Texas Big Spring	SGMTN_SIGNALMT	Wind	1999	40.0	0.245	9.8	2194.7
74	1 Sweetwater Wind 1	SWEETWND_WND1	Wind	2008	37.0	0.245	9.1	2203.8
75	1 Kunitz Wind	KUNITZ_WIND_LGE	Wind	2001	35.0	0.245	8.6	2212.3
76	1 Delaware Mountain Wind Farm	DELAWARE_WIND_NWP	Wind	2001	30.0	0.245	7.3	2219.7
77	1 Desert Sky Wind Farm 1	INDNENR_INDNENR	Wind	2001	25.0	0.245	6.1	2225.8
78	1 Sweetwater Wind 2	SWEETWN2_WND24	Wind	2003	16.0	0.245	3.9	2229.7
79	1 Atascocita 1	_HB_DG1	Biomass	2003	10.1	0.245	2.5	2232.2
80	1 Covel Gardens LG Power Station	DG_MEDIN_1UNIT	Other	2005	10.0	0.245	2.4	2234.6
81	1 Tessonman Road 1	DG_WALZE_4UNITS	Biomass	2003	10.0	0.245	2.4	2237.1
82	1 Wolfe Flats	DG_TURL_UNIT1	Wind	2007	10.0	0.245	2.4	2239.5
83	1 Coastal Plains RDF	_AV_DG1	Biomass	2003	6.7	0.245	1.6	2241.2
84	1 Austin Landfill Gas	DG_SPRIN_4UNITS	Other	1988	6.4	0.245	1.6	2242.8
85	1 DFW Gas Recovery	DG_BIO2_4UNITS	Biomass	1980	6.4	0.245	1.6	2244.3
86	1 Skyline Landfill Gas	DG_FERIS_4UNITS	Other	2007	6.4	0.245	1.6	2245.9
87	1 RGV Sugar Mill	DG_S_SNR_UNIT1	Biomass	1973	4.5	0.245	1.1	2247.0
88	1 Baytown 1	TRN_DG1	Biomass	2003	3.9	0.245	1.0	2247.9
89	1 Bluebonnet 1	_LB_DG1	Biomass	2003	3.9	0.245	1.0	2248.9
90	1 Nelson Gardens Landfill 1	DG_PEAR3_2UNITS	Other	1990	3.6	0.245	0.9	2249.8
91	1 Trinity Oaks LFG	DG_KLRG_1UNIT	Biomass	2009	3.2	0.245	0.8	2250.6
92	1 TSTC West Texas Wind	DG_ROSC2_1UNIT	Wind	2008	2.0	0.245	0.5	2251.1
93	2 Denison Dam 1	DNDAM_DENISOG1	Hydro	1944	40.0	0.860	34.4	2285.4
94	2 Denison Dam 2	DNDAM_DENISOG2	Hydro	1944	40.0	0.860	34.4	2319.8
95	2 Amistad Hydro 1	AMISTAD_AMISTAG1	Hydro	1983	38.0	0.860	32.7	2352.5
96	2 Amistad Hydro 2	AMISTAD_AMISTAG2	Hydro	1983	38.0	0.860	32.7	2385.2
97	2 Marshall Ford 1	MARSFO_MARSFOG1	Hydro	1941	36.0	0.860	31.0	2416.1
98	2 Marshall Ford 3	MARSFO_MARSFOG3	Hydro	1941	36.0	0.860	31.0	2447.1
99	2 Marshall Ford 2	MARSFO_MARSFOG2	Hydro	1941	35.0	0.860	30.1	2477.2
100	2 Granite Shoals 1	WIRTZ_WIRTZ_G1	Hydro	1951	30.0	0.860	25.8	2503.0
101	2 Granite Shoals 2	WIRTZ_WIRTZ_G2	Hydro	1951	30.0	0.860	25.8	2528.8
102	2 Marble Falls 1	MARBFA_MARBFAG1	Hydro	1951	21.0	0.860	18.1	2546.8
103	2 Marble Falls 2	MARBFA_MARBFAG2	Hydro	1951	21.0	0.860	18.1	2564.9
104	2 Buchanan 1	BUCHAN_BUCHANG1	Hydro	1938	18.0	0.860	15.5	2580.4

105	2 Buchanan 2	BUCHAN_BUCHANG2	Hydro	1938	18.0	0.860	15.5	2595.8
106	2 Buchanan 3	BUCHAN_BUCHANG3	Hydro	1950	18.0	0.860	15.5	2611.3
107	2 Whitney 1	WND_WHITNEY1	Hydro	1953	15.0	0.860	12.9	2624.2
108	2 Whitney 2	WND_WHITNEY2	Hydro	1953	15.0	0.860	12.9	2637.1
109	2 Inks 1	INKSDA_INKS_G1	Hydro	1938	14.0	0.860	12.0	2649.1
110	2 Falcon Hydro 1	FALCON_FALCONG1	Hydro	1954	12.0	0.860	10.3	2659.5
111	2 Falcon Hydro 2	FALCON_FALCONG2	Hydro	1954	12.0	0.860	10.3	2669.8
112	2 Falcon Hydro 3	FALCON_FALCONG3	Hydro	1954	12.0	0.860	10.3	2680.1
113	2 Morris Sheppard	MSP_MSP_1	Hydro	1942	12.0	0.860	10.3	2690.4
114	2 Morris Sheppard	MSP_MSP_2	Hydro	1942	12.0	0.860	10.3	2700.7
115	2 Austin 2	AUSTPL_AUSTING2	Hydro	1940	9.0	0.860	7.7	2708.5
116	2 Austin 1	AUSTPL_AUSTING1	Hydro	1940	8.0	0.860	6.9	2715.3
117	2 McQueeney (Abbott)	DG_MCQUE_5UNITS	Hydro	1927	8.0	0.860	6.9	2722.2
118	2 Dunlop (Schumansville) 1	DG_SCHUM_2UNITS	Hydro	1927	3.6	0.860	3.1	2725.3
119	2 Canyon 1	CANYHY_CANYHYG1	Hydro	1989	3.0	0.860	2.6	2727.9
120	2 Canyon 2	CANYHY_CANYHYG2	Hydro	1989	3.0	0.860	2.6	2730.5
121	2 Lewisville 1	DG_LWSVL_1UNIT	Hydro	1992	2.8	0.860	2.4	2732.9
122	2 Eagle Pass 1	EAGLE_HY_EAGLE_HY1	Hydro	1954	2.0	0.860	1.7	2734.6
123	2 Eagle Pass 2	EAGLE_HY_EAGLE_HY2	Hydro	1954	2.0	0.860	1.7	2736.3
124	2 Eagle Pass 3	EAGLE_HY_EAGLE_HY3	Hydro	1954	2.0	0.860	1.7	2738.0
125	2 Small Hydro of Texas 1	CUECPL_UNIT1	Hydro	1992	1.0	0.860	0.9	2738.9
126	3 South Texas 1	STP_STP_G1	Nuclear	1988	0.0	0.900	0.0	2738.9
127	3 South Texas 2	STP_STP_G2	Nuclear	1989	0.0	0.900	0.0	2738.9
128	3 STP 3		Nuclear		0	0.900	0.0	2738.9
129	3 STP 4		Nuclear		0	0.900	0.0	2738.9
130	3 Comanche Peak 1	CPSES_UNIT1	Nuclear	1990	1209.0	0.900	1088.1	3827.0
131	3 Comanche Peak 2	CPSES_UNIT2	Nuclear	1993	1158.0	0.900	1042.2	4869.2
132	4 Sandy Creek 1	09INR0001	Coal		0.0	0.842	0.0	4869.2
133	4 Limestone 2	LEG_LEG_G2	Coal	1986	858.0	0.842	722.4	5591.6
134	4 Limestone 1	LEG_LEG_G1	Coal	1985	831.0	0.842	699.6	6291.2
135	4 Martin Lake 3	MLSES_UNIT3	Coal	1979	818.0	0.842	688.7	6979.8
136	4 Martin Lake 1	MLSES_UNIT1	Coal	1977	800.0	0.842	673.5	7653.4
137	4 Martin Lake 2	MLSES_UNIT2	Coal	1978	800.0	0.842	673.5	8326.9
138	4 Oak Grove SES Unit 2	OGSES_UNIT2	Coal	2009	796.0	0.842	670.2	8997.0
139	4 Oak Grove SES Unit 1	OGSES_UNIT1	Coal	2009	785.0	0.842	660.9	9657.9
140	4 J K Spruce 2	CALAVERS_JKS2	Coal	2009	772.0	0.842	649.9	10307.9
141	4 Monticello 3	MNSES_UNIT3	Coal	1978	765.0	0.842	644.1	10951.9
142	4 Coletto Creek Unit 2	14INR0002	Coal		0.0	0.842	0.0	10951.9
143	4 Oklaunion 1	OKLA_OKLA_G1	Coal	1986	650.0	0.842	547.2	11499.2
144	4 W A Parish 6	WAP_WAP_G6	Coal	1978	650.0	0.842	547.2	12046.4
145	4 W A Parish 5	WAP_WAP_G5	Coal	1977	645.0	0.842	543.0	12589.4
146	4 Coletto Creek	COLETO_COLETOG1	Coal	1980	632.0	0.842	532.1	13121.5
147	4 Big Brown 1	BBSES_UNIT1	Coal	1971	617.0	0.842	519.5	13641.0
148	4 Big Brown 2	BBSES_UNIT2	Coal	1972	615.0	0.842	517.8	14158.7
149	4 Fayette Power Project 1	FPPYD1_FPP_G1	Coal	1979	608.0	0.842	511.9	14670.6
150	4 Fayette Power Project 2	FPPYD1_FPP_G2	Coal	1980	608.0	0.842	511.9	15182.5
151	4 W A Parish 8	WAP_WAP_G8	Coal	1982	600.0	0.842	505.1	15687.6
152	4 Monticello 1	MNSES_UNIT1	Coal	1974	583.0	0.842	490.8	16178.4
153	4 Monticello 2	MNSES_UNIT2	Coal	1975	583.0	0.842	490.8	16669.3
154	4 W A Parish 7	WAP_WAP_G7	Coal	1980	565.0	0.842	475.7	17144.9
155	4 Sandow 5	SD5SES_UNIT5	Coal	2009	560.0	0.842	471.5	17616.4
156	4 J K Spruce 1	CALAVERS_JKS1	Coal	1992	555.0	0.842	467.3	18083.7
157	4 Gibbons Creek 1	GIBCRK_GIB_CRG1	Coal	1982	470.0	0.842	395.7	18479.4

12/31/2009	2200	1386	1041	8354	1117	13448	5084	1206	2496	34132	2300	1150	500	38082	264 Frontera 2	5	\$	79.43	\$	0.0090008	\$	3,024,758.45
12/31/2009	2300	1342	974	8068	1108	13089	4798	1203	2641	33223	2300	1150	500	37173	257 Guadalupe Generating Station 4	5	\$	79.43	\$	0.0087860	\$	2,952,558.84
12/31/2009	2400	1311	953	7870	1087	12832	4672	1197	2639	32561	2300	1150	500	36511	252 Bastrop Energy Center 1	5	\$	79.43	\$	0.0086295	\$	2,899,977.83
Total														336053224					\$	89.31	\$	30,011,294,420.56