



**Report on the Capacity, Demand and Reserves
(CDR) in the ERCOT Region, 2021-2030**

December 16, 2020

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Disclaimer

CDR WORKING PAPER

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Notes on Changes Relative to the Last CDR Report, Published May 2020

1 The following Planned Resources have been moved to Operational Status since the release of the May 2020 CDR report:

Project Name	Unit Code	County	Fuel	Zone	Installed Summer Capacity MW	Summer Peak Ave. Capacity Contribution MW
PALMAS ALTAS WIND	PALMWIND_UNIT1	CAMERON	WIND-C	COASTAL	145	88
PEYTON CREEK WIND	PEY_UNIT1	MATAGORDA	WIND-C	COASTAL	151	92
BLUE SUMMIT WIND 3 A	BLSUMIT3_UNIT_17	WILBARGER	WIND-O	WEST	13	3
BLUE SUMMIT WIND 3 B	BLSUMIT3_UNIT_25	WILBARGER	WIND-O	WEST	182	35
FOWLER RANCH	FWLR_SLR_UNIT1	CRANE	SOLAR	WEST	150	120
HOLSTEIN SOLAR 1	HOLSTEIN_SOLAR1	NOLAN	SOLAR	WEST	102	82
HOLSTEIN SOLAR 2	HOLSTEIN_SOLAR2	NOLAN	SOLAR	WEST	102	82
LAPETUS SOLAR	LAPETUS_UNIT_1	ANDREWS	SOLAR	WEST	101	81
OBERON SOLAR	OBERON_UNIT_1	ECTOR	SOLAR	WEST	180	144
PROSPERO SOLAR 1	PROSPERO_UNIT1	ANDREWS	SOLAR	WEST	154	123
PROSPERO SOLAR 2	PROSPERO_UNIT2	ANDREWS	SOLAR	WEST	150	120
QUEEN SOLAR PHASE II	QUEEN_SL_SOLAR3	UPTON	SOLAR	WEST	98	78
QUEEN SOLAR PHASE II	QUEEN_SL_SOLAR4	UPTON	SOLAR	WEST	108	86
RAMBLER SOLAR	RAMBLER_UNIT1	TOM GREEN	SOLAR	WEST	200	160
CATAN SOLAR	DG_CS10_CATAN	KARNES	SOLAR	SOUTH	10	8
BRP ALVIN (DGR)	BRPALVIN_UNIT1	BRAZORIA	STORAGE	COASTAL	10	-
BRP ANGELTON (DGR)	BRPANGLE_UNIT1	BRAZORIA	STORAGE	COASTAL	10	-
BRP BRAZORIA (DGR)	BRP_BRAZ_UNIT1	BRAZORIA	STORAGE	COASTAL	10	-
BRP HEIGHTS (DGR)	BRHEIGHT_UNIT1	GALVESTON	STORAGE	HOUSTON	10	-
BRP ODESSA SW (DGR)	BRPODESA_UNIT1	ECTOR	STORAGE	WEST	10	-
COMMERCE ST ESS (DGR)	X443ESS1_SWRI	BEXAR	STORAGE	SOUTH	10	-
FLAT TOP BATTERY (DGR)	FLTBES_BESS1	REEVES	STORAGE	WEST	10	-
JOHNSON CITY BESS (DGR)	JC_BAT_UNIT_1	BLANCO	STORAGE	SOUTH	2	-
TOTAL					1,917	1,301

2 The following Planned Resources have finalized the necessary agreements and permits to be added to the CDR report:

Project Name	GENERATION INTERCONNECTION PROJECT CODE	County	Fuel	Zone	Year of Projected Commercial Operations ^(a)	Installed Summer Capacity MW	Summer Peak Ave. Capacity Contribution MW
AIR PRODUCTS GCA	21INR0012	GALVESTON	GAS-ST	HOUSTON	2022	60	60
BRANDON (LP&L)	21INR0201	LUBBOCK	GAS-GT	PANHANDLE	2021	21	21
CHAMON 2	19INR0056	HARRIS	GAS-GT	HOUSTON	2021	100	100
OLD BLOOMINGTON ROAD	19INR0057	VICTORIA	GAS-GT	SOUTH	2021	100	100
R MASSENGALE (LP&L)	21INR0202	LUBBOCK	GAS-CC	PANHANDLE	2021	58	58
TOPAZ POWER PLANT	20INR0231	GALVESTON	GAS-GT	HOUSTON	2021	510	510
TY COOKE (LP&L)	21INR0506	LUBBOCK	GAS-GT	PANHANDLE	2021	33	33
CAROL WIND	20INR0217	POTTER	WIND-P	PANHANDLE	2021	169	49
AJAX WIND	20INR0142	WILBARGER	WIND-O	WEST	2021	630	120
ANCHOR WIND	21INR0387	EASTLAND	WIND-O	NORTH	2021	300	57
AQUILLA LAKE WIND	19INR0145	HILL	WIND-O	NORTH	2021	202	38
AQUILLA LAKE 2 WIND	20INR0256	HILL	WIND-O	NORTH	2021	100	19
BAIRD NORTH II WIND	21INR0498	CALLAHAN	WIND-O	WEST	2021	20	4
FOXTROT WIND	20INR0129	KARNES	WIND-O	SOUTH	2022	504	96
HUTT WIND	21INR0005	MIDLAND	WIND-O	WEST	2021	336	64
MONARCH CREEK WIND	21INR0263	THROCKMORTON	WIND-O	WEST	2021	209	40
PRIDDY WIND	16INR0085	MILLS	WIND-O	NORTH	2021	300	57
VORTEX WIND	20INR0120	THROCKMORTON	WIND-O	WEST	2021	350	67
7V SOLAR	21INR0351	FAYETTE	SOLAR	SOUTH	2023	246	197
BIG STAR SOLAR	21INR0413	BASTROP	SOLAR	SOUTH	2022	221	176
BLUE JAY SOLAR	19INR0085	GRIMES	SOLAR	NORTH	2021	210	168
BRIGHTSIDE SOLAR	18INR0060	BEE	SOLAR	SOUTH	2021	50	40
CAROL SOLAR	21INR0274	POTTER	SOLAR	PANHANDLE	2021	223	179

CASTRO SOLAR	20INR0050	CASTRO	SOLAR	PANHANDLE	2021	223	178
CONCHO VALLEY SOLAR	21INR0384	TOM GREEN	SOLAR	WEST	2022	160	128
CORAZON SOLAR PHASE II	22INR0257	WEBB	SOLAR	SOUTH	2022	204	163
CUTLASS SOLAR	19INR0131	FORT BEND	SOLAR	HOUSTON	2022	300	240
DELILAH SOLAR 1	21INR0221	LAMAR	SOLAR	NORTH	2021	250	200
DELILAH SOLAR 1A	21INR0490	LAMAR	SOLAR	NORTH	2023	200	160
DELILAH SOLAR 1B	21INR0491	LAMAR	SOLAR	NORTH	2021	250	200
FIGHTING JAYS SOLAR	21INR0278	FORT BEND	SOLAR	HOUSTON	2022	357	285
GREEN HOLLY SOLAR	21INR0021	DAWSON	SOLAR	WEST	2023	414	331
INDIGO SOLAR	21INR0031	FISHER	SOLAR	WEST	2021	125	100
NOBLE SOLAR	20INR0214	DENTON	SOLAR	NORTH	2022	279	223
OLD HICKORY SOLAR	20INR0236	JACKSON	SOLAR	SOUTH	2022	250	200
PINE FOREST SOLAR	20INR0203	HOPKINS	SOLAR	NORTH	2022	284	227
RAMSEY SOLAR	20INR0130	WHARTON	SOLAR	SOUTH	2021	514	411
ROSELAND SOLAR	20INR0205	FALLS	SOLAR	NORTH	2022	500	400
RED HOLLY SOLAR	21INR0022	DAWSON	SOLAR	WEST	2023	260	208
RED-TAILED HAWK SOLAR	21INR0389	WHARTON	SOLAR	SOUTH	2021	355	284
RUETER SOLAR	20INR0202	BOSQUE	SOLAR	NORTH	2022	200	160
SBRANCH SOLAR PROJECT	22INR0205	WHARTON	SOLAR	SOUTH	2022	154	123
SECOND DIVISION SOLAR	20INR0248	BRAZORIA	SOLAR	COASTAL	2022	100	80
SOLEMIO	19INR0093	HOPKINS	SOLAR	NORTH	2021	81	65
SPARTA SOLAR	22INR0352	BEE	SOLAR	SOUTH	2022	256	205
STARR SOLAR RANCH	20INR0216	STARR	SOLAR	SOUTH	2021	136	109
TRES BAHIAS SOLAR	20INR0266	CALHOUN	SOLAR	COASTAL	2021	195	156
TYSON NICK SOLAR	20INR0222	LAMAR	SOLAR	NORTH	2021	90	72
VANCOURT SOLAR	21INR0213	CAMERON	SOLAR	COASTAL	2021	46	37
VISION SOLAR 1	20INR0082	NAVARRO	SOLAR	NORTH	2021	129	103
ZIER SOLAR	21INR0019	KINNEY	SOLAR	SOUTH	2022	160	128
BRP DICKENS BESS	22INR0325	DICKENS	STORAGE	PANHANDLE	2022	202	-
CROSSETT POWER BATT	21INR0510	CRANE	STORAGE	WEST	2021	209	-
GAMBIT	21INR0364	BRAZORIA	STORAGE	COASTAL	2021	102	-
GREEN HOLLY STORAGE	21INR0029	DAWSON	STORAGE	WEST	2023	50	-
HIGH LONESOME BESS	20INR0280	CROCKETT	STORAGE	WEST	2022	50	-
IGNACIO GRID	21INR0522	HIDALGO	STORAGE	SOUTH	2021	102	-
LILY STORAGE	20INR0294	KAUFMAN	STORAGE	NORTH	2021	52	-
QUEEN BESS	20INR0281	UPTON	STORAGE	WEST	2022	50	-
RED HOLLY STORAGE	21INR0033	DAWSON	STORAGE	WEST	2023	50	-
REPUBLIC ROAD STORAGE	21INR0460	ROBERTSON	STORAGE	NORTH	2021	50	-
ROUGHNECK STORAGE	19INR0176	BRAZORIA	STORAGE	COASTAL	2021	50	-
SP TX-12B BESS	21INR0357	UPTON	STORAGE	WEST	2021	25	-

BRP ANGELTON (DGR)	BRPANGLE_UNIT1	BRAZORIA	STORAGE	COASTAL	2020	10	-
BRP DICKINSON (DGR)	BRP_DIKN_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	10	-
BRP MAGNOLIA (DGR)	BRPMAGNO_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	10	-
BRP PUEBLO I (DGR)	BRP_PBL1_UNIT1	MAVERICK	STORAGE	SOUTH	2020	5	-
BRP PUEBLO II (DGR)	BRP_PBL2_UNIT1	MAVERICK	STORAGE	SOUTH	2020	10	-
BRP SEMINOLE (DGR)	BRP_SEMI_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	10	-
BRP SWEENEY (DGR)	BRP_SWNY_UNIT1	BRAZORIA	STORAGE	COASTAL	2020	10	-
BRP ZAPATA I (DGR)	BRP_ZPT1_UNIT1	ZAPATA	STORAGE	SOUTH	2020	10	-
BRP ZAPATA II (DGR)	BRP_ZPT2_UNIT1	ZAPATA	STORAGE	SOUTH	2020	5	-
FLOWER VALLEY BATTERY (DGR)	FLVABES1_FLATU1	REEVES	STORAGE	WEST	2020	10	-
HOEFSROAD BESS (DGR)	HRBESS_BEES	REEVES	STORAGE	WEST	2020	2	-
SWOOSE BATTERY (DGR)	SWOOSE1_SWOOSEU1	WARD	STORAGE	WEST	2020	10	-
TRIPLE BUTTE (DGR)	TRIPBUT1_BELU1	PECOS	STORAGE	WEST	2021	8	-
TOTAL						12,525	7,429

(a) This date is based on the projected Commercial Operations Date (COD) reported by the project developer. In contrast, a unit's first summer CDR forecast year (reported in the SummerCapacities sheet) is defined as the first year in which the capacity is available for the entire summer Peak Load Season. (The summer Peak Load Season constitutes the months of June, July, August and September.) For example, if a unit has a projected COD of July 1, 2020, the first summer CDR forecast year would be 2021.

Planned projects with (DGR) suffix are Distributed Generation Resources (DGRs). Since they are 10 MW or less, they are not going through the GINR application process.

Notable Resource Changes:

Recent Retirements:

- DECKER CREEK STG 1 (315 MW), as of 10/31/20.
- TEXAS GAS SULFUR CTG 1 (69 MW), as of 11/30/20.

Upcoming Retirements:

- SAM RAYBURN POWER CTG 1 (11 MW), retiring on 2/28/21.
- SAM RAYBURN POWER CTG 2 (11 MW), retiring on 2/28/21.
- TRINIDAD STG 6 (235 MW), retiring on 4/29/21, RMR study pending.

Recent Extended Outages

- R W MILLER STG 1 (70 MW) started in 8/14/20 and expected to last for 18 months.

Recent Seasonal Mothballs

- NACOGDOCHES POWER (105 MW), as of 10/16/20. Available between May 15th and October 15th.

Notable Reporting Changes:

- The load forecast now includes a "Rooftop Solar PV Forecast" line item, which reduces the Firm Peak Load forecast. The rooftop solar PV forecast was created for business and residential classes based on the load profile assignment for each weather zone. ERCOT developed an average solar capacity factor at the time of the summer peak demand by comparing the average electricity usage per ESIID for premises with and without rooftop solar PV. After unitizing the two usage profiles, a comparison of the profiles yielded a 46% usage reduction. This analysis was performed on the entire population of ERCOT's ESIIDs. Other forecast assumptions include the starting installed rooftop solar PV amount of approximately 700 MW as of August 2020, and a forecast of approximately 2,100 MW by August, 2030.

- The capacity of 'Proposed Generation Resources Based on Interconnection Milestone Status' table in the Generation Resource Scenarios tab includes a new Planned Resource Category: Synchronized Planned Projects. This group represents projects that ERCOT has approved for grid synchronization but have not passed all qualification testing necessary to be approved for participation in ERCOT market operations.

Definitions

Available Mothballed Capacity based on Owner's Return Probability

Mothballed capacity with a return-to-service probability of 50% or greater for a given season of the year, as provided by its owner, constitutes available mothballed generation. Return probabilities for individual units are considered protected information under the ERCOT Protocols and therefore are not included in this report.

Capacity Pending Retirement

Announced retired capacity that is undergoing ERCOT grid reliability reviews pursuant to Nodal Protocol Section 3.14.1.2

Distribution Resource Types:

Settlement Only Distribution Generator (SODG)

A generator that is connected to the Distribution System with a rating of:

- (1) One MW or less that chooses to register as an SODG; or
- (2) Greater than one and up to ten MW that is capable of providing a net export to the ERCOT System and does not register as a Distribution Generation Resource (DGR).

SODGs are settled for exported energy only, but may not participate in the Ancillary Services market, Reliability Unit Commitment (RUC), Security-Constrained Economic Dispatch (SCED), or make energy offers.

Distribution Generation Resource (DGR)

A Generation Resource connected to the Distribution System that is either:

- (1) Greater than ten MW and not registered with the Public Utility Commission of Texas (PUCT) as a self-generator; or
- (2) Ten MW or less that chooses to register as a Generation Resource to participate in the ERCOT markets.

DGRs must be registered with ERCOT in accordance with Planning Guide Section 6.8.2, Resource Registration Process, and will be modeled in ERCOT systems in accordance with Section 3.10.7.2, Modeling of Resources and Transmission Loads.

Emergency Response Service

ERCOT uses the methodology specified in Protocol Section 3.2.6.2.1, Peak Load Estimate, to derive the ERS capacity forecast for future years. The Current Year for the calculations is defined as the latest year for which ERS has been procured. The ERS capacity amounts are grossed up by 2% to reflect avoided transmission line losses.

Energy Efficiency Program Savings Forecast

ERCOT's energy efficiency forecast uses the PUCT's annual verified energy efficiency program savings estimates as the starting point. (See the definition for verified energy efficiency program savings below.) Savings from TDSP standard offer load management programs are not included in the ERCOT energy efficiency forecast. ERCOT computes the historical average annual verified savings, but excludes 2017 from the calculation due to Hurricane Harvey load impacts. (For prior forecasts, ERCOT used a formula based on the State energy efficiency goals in Utilities Code Section 39.905. Since the impacts of the goals were assumed to accumulate for just seven years from the time that the goals must be first met (2013), ERCOT no longer uses the goal-based forecasting approach.)

Finally, ERCOT incorporates annual energy efficiency estimates from municipal utilities and electric cooperatives provided to the State Energy Conservation Office (SECO). Annual SECO report submission by these entities is required under S.B. No. 924. If annual reports for the previous calendar year are not available at the time the CDR is prepared, ERCOT incorporates report data for the most recently available reporting year.

The energy efficiency capacity amounts are grossed up by a factor representing avoided transmission and distribution line losses. The factor is currently 1.076, reflecting 2% for avoided transmission losses and 5.6% for avoided distribution losses. The loss percentages are based on transmission and distribution loss factors posted to ERCOT's MIS website.

Energy Emergency Alert (EEA)

An ERCOT EEA declaration is made when operating reserves and system frequency drop below established severity levels (Levels 1, 2 and 3) and reserves are not projected to recover within 30 minutes unless certain actions are taken. An EEA declaration initiates an orderly, predetermined procedure for maximizing the use of available Resources, including the use of voluntary load reduction programs that are only available under EEA operations. Only under the most severe EEA level, would ERCOT direct Transmission and Distribution Service Providers to start shedding Load on a rotating basis in order to maintain system reliability and integrity. See Nodal Protocol Section 6.5.9.4, Energy Emergency Alert, for more details.

Forecast Zone

The CDR report uses Forecast Zones to identify the geographical location of generation resources. Forecast Zones generally have the same boundaries as the 2003 Congestion Management Zones with the following exceptions: A) Panhandle Zone for resources in the Texas Panhandle counties and outside the 2003 Congestion Management Zones, and B) Coastal Zone for resources in 11 counties along the Texas Gulf Coast and formerly in the South Zone of the 2003 Congestion Management Zones. There are six Forecast Zones: Coastal, Houston, North, Panhandle, South, and West.

Full Interconnection Study (FIS)

The set of studies conducted by a Transmission Service Provider (TSP) for the purpose of identifying any electric system improvements or enhancements required to reliably interconnect a new All-Inclusive Generation Resource consistent with the provisions of Planning Guide Section 5, Generation Resource Interconnection or Change Request. These studies may include steady-state studies, system protection (short-circuit) studies, dynamic and transient stability studies, facility studies, and sub-synchronous oscillation studies.

Inactive Projects

Per Planning Guide Section 5.7.6, a proposed Resource shall be given the status of "Inactive" if the Resource has not met the conditions for inclusion in the ERCOT planning models, as specified in Section 6.9, Addition of Proposed Generation to the Planning Models, within two years of the date on which ERCOT posts the final FIS studies for the Resource to the MIS Secure Area. A developer may also elect Inactive status and stop any interconnection studies in process at its own discretion. When an Inactive Resource subsequently meets the requirements of Section 6.9, it shall be added to the planning models and the status changed back to Planned. If a Resource has been Inactive for five years, ERCOT may cancel the project pursuant to Planning Guide Section 5.7.7, Cancellation of a Project Due to Failure to Comply with Requirements.

Per new ERCOT Nodal Protocol rules (NPRR980), Inactive planned projects are excluded from the CDR's reserve margin calculations.

Mothballed Unit

A generation resource for which a generation entity has submitted a Notification of Suspension of Operations, for which ERCOT has declined to execute an RMR agreement, and for which the generation entity has not announced retirement of the generation resource. A seasonal mothballed unit is one in which the generation entity requests a seasonal operation period that must include the summer Peak Load Season, June 1 through September 30.

LRs (Load Resources)

Load capable of reducing or increasing the need for electrical energy or providing Ancillary Services to the ERCOT System, as described in the ERCOT Protocols, Section 6, Ancillary Services. These Resources may provide the following Ancillary Services: Responsive Reserve Service, Non-Spinning Reserve Service, Replacement Reserve Service, and Regulation Service. The Resources must be registered and qualified by ERCOT and will be scheduled by a Qualified Scheduling Entity (QSE). LR capacity has been grossed up by 2% to reflect avoided transmission line losses.

Mothballed Capacity

Capacity that is designated as mothballed by a generating unit's owner as described above, and which is not available for operations during the summer Peak Load Season (June, July, August and September) or winter Peak Load Season (December, January and February).

Peak Load Seasons

Summer months are June, July, August, and September; winter months are December, January, and February.

Private Use Networks

An electric network connected to the ERCOT transmission grid that contains load that is not directly metered by ERCOT (i.e., load that is typically netted with internal generation).

Non-Synchronous Tie

Any non-synchronous transmission interconnection between ERCOT and non-ERCOT electric power systems.

Reliability Must-Run (RMR) Unit

A generation resource unit operated under the terms of an agreement with ERCOT that would not otherwise be operated except that they are necessary to provide voltage support, stability or management of localized transmission constraints under first contingency criteria.

Signed SGIA (Standard Generation Interconnection Agreement)

An agreement that sets forth requirements for physical connection between an eligible transmission service customer and a transmission or distribution service provider.

Switchable Generation Resource (SWGR)

A generation resource that can be connected to either the ERCOT transmission grid or a grid outside the ERCOT Region.

TDSP Standard Offer Load Management Programs

For the May releases of the CDR report, ERCOT uses the megawatt amount of verified peak load capacity reductions, adjusted for avoided transmission losses, due to TDSP Standard Offer load management programs that are reported by electric utilities in the ERCOT Region to the Public Utility Commission of Texas. The reported amounts are for the most current reporting year, which is the calendar year prior to the year during which the May CDR is prepared. (For example, the May 2019 CDR report used verified program savings for the 2018 reporting year.)

For the December CDR releases, ERCOT uses TDSP data received for the current load management program year, which is more timely than the verified savings estimates provided to the PUCT. The data obtained from the TDSPs reflect verified program performance for the summer based on testing, and is adjusted for avoided transmission losses.

Unconfirmed Retirement

A Generation Resource for which a public announcement of the intent to permanently shut the unit down has been released, but a Notice of Suspension of Operations for the unit has not been received by ERCOT. This is an informal definition that is not currently included in the Nodal Protocols or Other Binding Documents.

The criteria for classifying a Generation Resource as an Unconfirmed Retirement include the following:

- A specific retirement date is cited in the announcement, or other timing information is given that indicates the unit will be unavailable as of June 1 of a CDR Reporting Year.
- The announcement, with follow-up inquiry by ERCOT, does not indicate that retirement timing is highly speculative.

Verified Energy Efficiency Program Savings

The total megawatt (MW) amount of verified peak load capacity reductions due to residential and commercial sector energy efficiency incentive programs that are reported by electric utilities in the ERCOT Region to the Public Utility Commission of Texas. See Utilities Code Section 39.905. Note that savings from TDSP standard offer load management programs are not included in the ERCOT energy efficiency forecast, but rather handled as a separate reporting line item.

Wind Peak Average Capacity Contribution

The seasonal net capacity rating of wind resources multiplied by the Seasonal Peak Average Capacity Percentage for the Coastal, Panhandle and Other CDR reporting regions.

Wind Seasonal Peak Average Capacity Percentage

The average wind capacity available for the summer and winter Peak Load Seasons for a CDR reporting region (Coastal, Panhandle, Other) divided by the installed capacity for the region, expressed as a percentage. Details for the derivation of the percentages are outlined in ERCOT Protocol Section 3.2.6.2.2 (see http://www.ercot.com/content/wcm/current_guides/53528/03-110119_Nodal.docx).

Wind Regions: Coastal, Panhandle, and Other

Wind Generation Resources (WGRs) are classified into regions based on the county that contains their Point of Interconnection (POI). The Coastal region is defined as the following counties along the Gulf Coast: Aransas, Brazoria, Calhoun, Cameron, Kenedy, Kleberg, Matagorda, Nueces, Refugio, San Patricio, and Willacy. The Panhandle region is defined as the following counties: Armstrong, Bailey, Briscoe, Carson, Castro, Childress, Cochran, Collingsworth, Crosby, Dallam, Deaf Smith, Dickens, Donley, Floyd, Gray, Hale, Hall, Hansford, Hartley, Hemphill, Hockley, Hutchinson, Lamb, Lipscomb, Lubbock, Moore, Motley, Ochiltree, Oldham, Parmer, Potter, Randall, Roberts, Sherman, Swisher, and Wheeler. The "Other" Wind Region consists of all other counties in the ERCOT Region.

The assigned Wind Region for each WGR is indicated as "WIND-C," "WIND-P," or "WIND-O" in the Fuel columns of the summer/winter Capacities tabs.

CDR Report - Executive Summary

New generation resources, including a significant amount of utility-scale solar, continue to be added to the ERCOT region at a rapid pace, resulting in higher planning reserve margins over the next several years.

The planning reserve margin for summer 2021 is forecasted to be 15.5%, based on resource updates provided to ERCOT from generation developers and an updated peak demand forecast. This is down 1.8% from what was reported in the May CDR due to solar and wind project delays and cancellations. Between 2022 and 2025, the planning reserve margin is expected to reach 25-27%.

The ERCOT region continues to see growth in customer demand, and will be incorporating demand served by Lubbock Power and Light beginning in June 2021. The forecasted peak demand for summer 2021 is 77,244 MW, and was calculated using revised economic data released by Moody's Analytics in August. ERCOT's current system-wide peak demand record is 74,820 MW, set on Aug. 12, 2019, between 4 and 5 p.m.

ERCOT has seen a significant increase in utility-scale solar resources, and based on the grid operator's current interconnection queue for new generation projects, this trend is expected to continue over the next several years.

The grid operator is also seeing continued and accelerated growth in rooftop solar projects. In response, ERCOT included its first, separate rooftop solar PV forecast in the CDR. The forecast was created to show the incremental capacity growth beyond the historical growth trend reflected in the load forecast.

Based on preliminary data from generation owners, planned resources expected to be available by summer 2021 have a summer-rated capacity of 5,620 MW. This includes 816 MW of gas-fired resources, 1,765 MW of wind resources and 3,039 MW of utility-scale solar resources. An additional 9,273 MW of summer-rated solar capacity is expected to be added by June 2022.

Resources totaling 1,917 MW of installed capacity have been approved by ERCOT for commercial operations since the May CDR, and a total of 12,525 MW of installed capacity became eligible for inclusion in the CDR.

The mid-year CDR report will be released in May 2021.

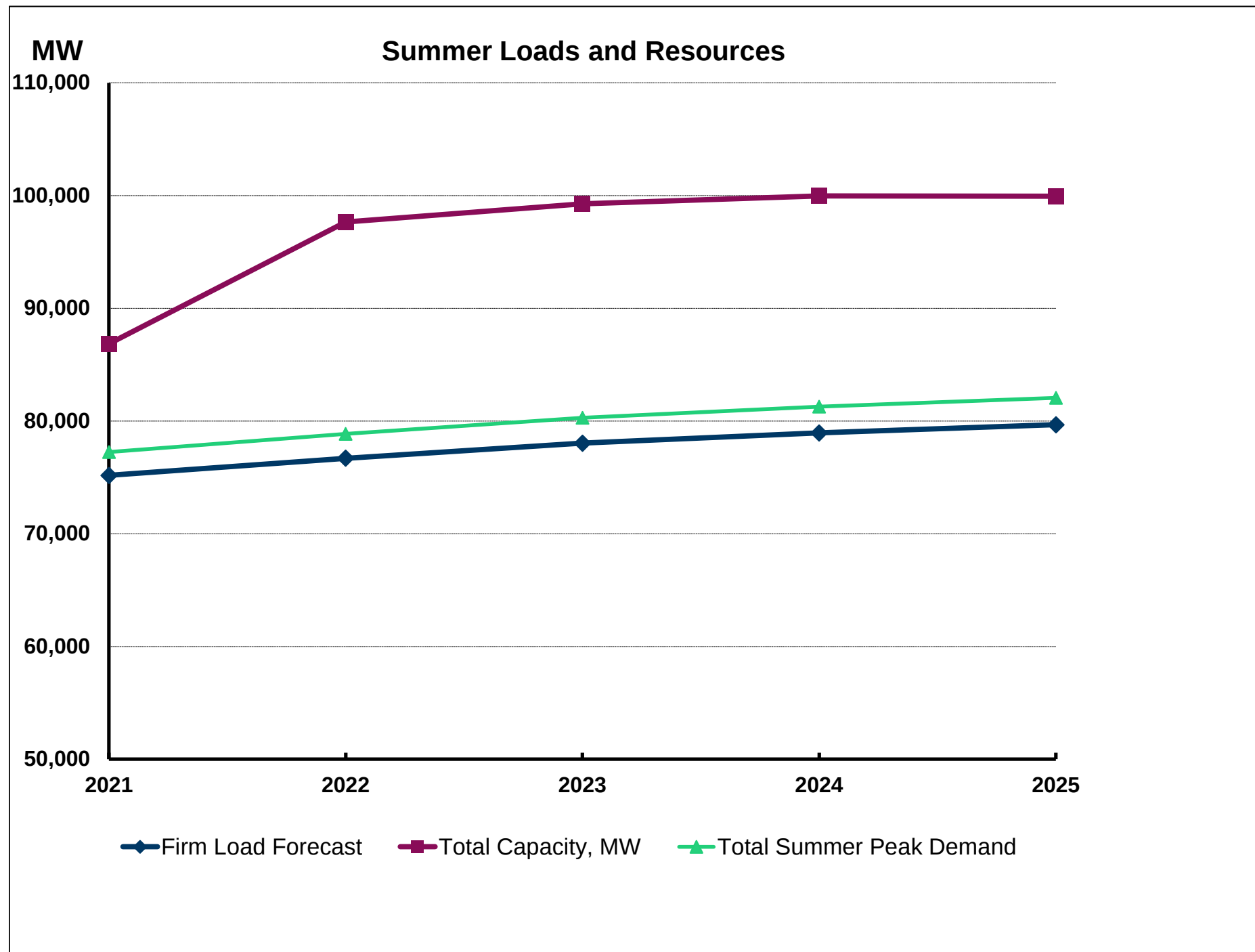
Report on the Capacity, Demand and Reserves in the ERCOT Region

Summer Summary: 2021-2025

Load Forecast, MW:	2021	2022	2023	2024	2025
Summer Peak Demand (based on normal weather)	77,244	78,855	80,280	81,267	82,058
plus: Energy Efficiency Program Savings Forecast	2,110	2,337	2,648	2,884	3,205
Total Summer Peak Demand (before Reductions from Energy Efficiency Programs)	79,354	81,192	82,929	84,151	85,263
less: Rooftop solar PV Forecast	-100	-190	-280	-359	-426
less: Load Resources providing Responsive Reserves	-898	-898	-898	-898	-898
less: Load Resources providing Non-Spinning Reserves	0	0	0	0	0
less: Emergency Response Service (10- and 30-min ramp products)	-811	-811	-811	-811	-811
less: TDSP Standard Offer Load Management Programs	-262	-262	-262	-262	-262
less: Energy Efficiency Program Savings Forecast	-2,110	-2,337	-2,648	-2,884	-3,205
Firm Peak Load, MW	75,173	76,695	78,030	78,937	79,661

Resources, MW:	2021	2022	2023	2024	2025
Installed Capacity, Thermal/Hydro	64,026	64,096	64,096	64,096	64,096
Switchable Capacity	3,490	3,490	3,490	3,490	3,490
less: Switchable Capacity Unavailable to ERCOT	-542	-542	-542	-542	-542
Available Mothballed Capacity	588	470	470	470	470
Capacity from Private Use Networks	3,259	3,172	3,167	3,122	3,082
Coastal Wind, Peak Average Capacity Contribution (61% of installed capacity)	2,188	2,188	2,188	2,188	2,188
Panhandle Wind, Peak Average Capacity Contribution (29% of installed capacity)	1,279	1,279	1,279	1,279	1,279
Other Wind, Peak Average Capacity Contribution (19% of installed capacity)	3,251	3,251	3,251	3,251	3,251
Solar Utility-Scale, Peak Average Capacity Contribution (80% of installed capacity)	3,069	3,069	3,069	3,069	3,069
Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
RMR Capacity to be under Contract	0	0	0	0	0
Capacity Pending Retirement	-235	-235	-235	-235	-235
Operational Generation Capacity, MW	80,372	80,237	80,232	80,187	80,147
Non-Synchronous Ties, Capacity (Based on average net import contribution during summer 2019 EEA events)	850	850	850	850	850
Planned Resources (not wind, solar or storage) with Signed IA, Air Permits and Adequate Water Supplies	816	1,199	1,199	1,199	1,199
Planned Coastal Wind with Signed IA, Peak Average Capacity Contribution (61% of installed capacity)	829	952	1,088	1,088	1,088
Planned Panhandle Wind with Signed IA, Peak Average Capacity Contribution (29% of installed capacity)	0	49	93	93	93
Planned Other Wind with Signed IA, Peak Average Capacity Contribution (19% of installed capacity)	935	2,046	2,141	2,217	2,217
Planned Solar Utility-Scale, Peak Average Capacity Contribution (80% of installed capacity)	3,039	12,312	13,645	14,333	14,333
Planned Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
Total Capacity, MW	86,842	97,645	99,249	99,968	99,928

Reserve Margin	15.5%	27.3%	27.2%	26.6%	25.4%
(Total Resources - Firm Load Forecast) / Firm Load Forecast					



Unit Megawatt Capacities - Summer

UNIT NAME	INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
3 Operational Resources (Thermal)																
4 COMANCHE PEAK U1		CPSES_UNIT1	SOMERVELL	NUCLEAR	NORTH	1990	1,205.0	1,205.0	1,205.0	1,205.0	1,205.0	1,205.0	1,205.0	1,205.0	1,205.0	1,205.0
5 COMANCHE PEAK U2		CPSES_UNIT2	SOMERVELL	NUCLEAR	NORTH	1993	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0	1,195.0
6 SOUTH TEXAS U1	20INR0287	STP_STP_G1	MATAGORDA	NUCLEAR	COASTAL	1988	1,293.2	1,293.2	1,293.2	1,293.2	1,293.2	1,293.2	1,293.2	1,293.2	1,293.2	1,293.2
7 SOUTH TEXAS U2		STP_STP_G2	MATAGORDA	NUCLEAR	COASTAL	1989	1,280.0	1,280.0	1,280.0	1,280.0	1,280.0	1,280.0	1,280.0	1,280.0	1,280.0	1,280.0
8 COLETO CREEK		COLETO_COLETOG1	GOLIAD	COAL	SOUTH	1980	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0	655.0
9 FAYETTE POWER U1		FPPYD1_FPP_G1	FAYETTE	COAL	SOUTH	1979	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
10 FAYETTE POWER U2		FPPYD1_FPP_G2	FAYETTE	COAL	SOUTH	1980	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0	599.0
11 FAYETTE POWER U3		FPPYD2_FPP_G3	FAYETTE	COAL	SOUTH	1988	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0	437.0
12 J K SPRUCE U1		CALAVERS_JKS1	BEXAR	COAL	SOUTH	1992	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0	560.0
13 J K SPRUCE U2		CALAVERS_JKS2	BEXAR	COAL	SOUTH	2010	785.0	785.0	785.0	785.0	785.0	785.0	785.0	785.0	785.0	785.0
14 LIMESTONE U1		LEG_LEG_G1	LIMESTONE	COAL	NORTH	1985	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0	824.0
15 LIMESTONE U2		LEG_LEG_G2	LIMESTONE	COAL	NORTH	1986	836.0	836.0	836.0	836.0	836.0	836.0	836.0	836.0	836.0	836.0
16 MARTIN LAKE U1	MLSES_UNIT1	RUSK	COAL	NORTH	1977	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0
17 MARTIN LAKE U2	MLSES_UNIT2	RUSK	COAL	NORTH	1978	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0
18 MARTIN LAKE U3	MLSES_UNIT3	RUSK	COAL	NORTH	1979	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0	805.0
19 OAK GROVE SES U1	OGSES_UNIT1A	ROBERTSON	COAL	NORTH	2010	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0
20 OAK GROVE SES U2	OGSES_UNIT2	ROBERTSON	COAL	NORTH	2011	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0	855.0
21 SAN MIGUEL U1	SANMIGL_G1	ATASCOSA	COAL	SOUTH	1982	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0
22 SANDY CREEK U1	SCES_UNIT1	MCLENNAN	COAL	NORTH	2013	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
23 TWIN OAKS U1	TNP_ONE_TNP_O_1	ROBERTSON	COAL	NORTH	1990	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
24 TWIN OAKS U2	TNP_ONE_TNP_O_2	ROBERTSON	COAL	NORTH	1991	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
25 W A PARISH U5	WAP_WAP_G5	FORT BEND	COAL	HOUSTON	1977	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0	664.0
26 W A PARISH U6	WAP_WAP_G6	FORT BEND	COAL	HOUSTON	1978	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0	663.0
27 W A PARISH U7	WAP_WAP_G7	FORT BEND	COAL	HOUSTON	1980	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0	577.0
28 W A PARISH U8	WAP_WAP_G8	FORT BEND	COAL	HOUSTON	1982	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0
29 ARTHUR VON ROSENBERG 1 CTG 1	BRAUNIG_AVR1_CT1	BEXAR	GAS-CC	SOUTH	2000	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
30 ARTHUR VON ROSENBERG 1 CTG 2	BRAUNIG_AVR1_CT2	BEXAR	GAS-CC	SOUTH	2000	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
31 ARTHUR VON ROSENBERG 1 STG	BRAUNIG_AVR1_ST	BEXAR	GAS-CC	SOUTH	2000	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0	190.0
32 ATKINS CTG 7	ATKINS_ATKINSG7	BRAZOS	GAS-GT	NORTH	1973	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
33 BARNEY M DAVIS CTG 3	B_DAVIS_B_DAVIG3	NUECES	GAS-CC	COASTAL	2010	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0
34 BARNEY M DAVIS CTG 4	B_DAVIS_B_DAVIG4	NUECES	GAS-CC	COASTAL	2010	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0	157.0
35 BARNEY M DAVIS STG 1	B_DAVIS_B_DAVIG1	NUECES	GAS-ST	COASTAL	1974	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
36 BARNEY M DAVIS STG 2	B_DAVIS_B_DAVIG2	NUECES	GAS-CC	COASTAL	1976	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0	319.0
37 BASTROP ENERGY CENTER CTG 1	BASTEN_GTG1100	BASTROP	GAS-CC	SOUTH	2002	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
38 BASTROP ENERGY CENTER CTG 2	BASTEN_GTG2100	BASTROP	GAS-CC	SOUTH	2002	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
39 BASTROP ENERGY CENTER STG	BASTEN_ST0100	BASTROP	GAS-CC	SOUTH	2002	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0	233.0
40 BOSQUE ENERGY CENTER CTG 1	BOSQUESW_BSQSJU_1	BOSQUE	GAS-CC	NORTH	2000	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0
41 BOSQUE ENERGY CENTER CTG 2	BOSQUESW_BSQSJU_2	BOSQUE	GAS-CC	NORTH	2000	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0	143.0
42 BOSQUE ENERGY CENTER CTG 3	BOSQUESW_BSQSJU_3	BOSQUE	GAS-CC	NORTH	2001	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
43 BOSQUE ENERGY CENTER STG 4	BOSQUESW_BSQSJU_4	BOSQUE	GAS-CC	NORTH	2001	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
44 BOSQUE ENERGY CENTER STG 5	BOSQUESW_BSQSJU_5	BOSQUE	GAS-CC	NORTH	2009	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5	213.5
45 BRAZOS VALLEY CTG 1	BVE_UNIT1	FORT BEND	GAS-CC	HOUSTON	2003	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7
46 BRAZOS VALLEY CTG 2	BVE_UNIT2	FORT BEND	GAS-CC	HOUSTON	2003	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7	149.7
47 BRAZOS VALLEY CTG 3	BVE_UNIT3	FORT BEND	GAS-CC	HOUSTON	2003	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9
48 CALENERGY-FALCON SEABOARD CTG 1	FLCNS_UNIT1	HOWARD	GAS-CC	WEST	1987	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
49 CALENERGY-FALCON SEABOARD CTG 2	FLCNS_UNIT2	HOWARD	GAS-CC	WEST	1987	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
50 CALENERGY-FALCON SEABOARD CTG 3	FLCNS_UNIT3	HOWARD	GAS-CC	WEST	1988	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
51 CALHOUN (PORT COMFORT) CTG 1	CALHOUN_UNIT1	CALHOUN	GAS-GT	COASTAL	2017	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
52 CALHOUN (PORT COMFORT) CTG 2	CALHOUN_UNIT2	CALHOUN	GAS-GT	COASTAL	2017	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
53 CASTLEMAN CHAMON CTG 1	CHAMON_CTG_0101	HARRIS	GAS-GT	HOUSTON	2017	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
54 CASTLEMAN CHAMON CTG 2	CHAMON_CTG_0301	HARRIS	GAS-GT	HOUSTON	2017	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.0
55 CEDAR BAYOU 4 CTG 1	CBY4_CT41	CHAMBERS	GAS-CC	HOUSTON	2009	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0
56 CEDAR BAYOU 4 CTG 2	CBY4_CT42	CHAMBERS	GAS-CC	HOUSTON	2009	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0
57 CEDAR BAYOU 4 STG	CBY4_ST04	CHAMBERS	GAS-CC	HOUSTON	2009	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0
58 CEDAR BAYOU STG 1	CBY_CBY_G1	CHAMBERS	GAS-ST	HOUSTON	1970	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
59 CEDAR BAYOU STG 2	CBY_CBY_G2	CHAMBERS	GAS-ST	HOUSTON	1972	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0	749.0
60 COLORADO BEND ENERGY CENTER CTG 1	CBEC_GT1	WHARTON	GAS-CC	SOUTH	2007	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
61 COLORADO BEND ENERGY CENTER CTG 2	CBEC_GT2	WHARTON	GAS-CC	SOUTH	2007	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
62 COLORADO BEND ENERGY CENTER CTG 3	CBEC_GT3	WHARTON	GAS-CC	SOUTH	2008	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
63 COLORADO BEND ENERGY CENTER CTG 4	CBEC_GT4	WHARTON	GAS-CC	SOUTH	2008	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
64 COLORADO BEND ENERGY CENTER STG 1	CBEC_STG1	WHARTON	GAS-CC	SOUTH	2007	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
65 COLORADO BEND ENERGY CENTER STG 2	CBEC_STG2	WHARTON	GAS-CC	SOUTH	2008	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
66 COLORADO BEND II CTG 7	CBECII_CT7	WHARTON	GAS-CC	SOUTH	2017	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
67 COLORADO BEND II CTG 8	CBECII_CT8	WHARTON	GAS-CC	SOUTH	2017	335.0	335.0	335.0	335.0	335.0	335.0	335.0	335.0	335.0	335.0	335.0
68 COLORADO BEND II STG 9	CBECII_STG9	WHARTON	GAS-CC	SOUTH	2017	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4	478.4
69 CVC CHANNELVIEW CTG 1	CVC_CVC_G1	HARRIS	GAS-CC	HOUSTON	2008	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0	169.0
70 CVC CHANNELVIEW CTG 2	CVC_CVC_G2	HARRIS	GAS-CC	HOUSTON	2008	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0
71 CVC CHANNELVIEW CTG 3	CVC_CVC_G3	HARRIS	GAS-CC	HOUSTON	2008	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0
72 CVC CHANNELVIEW STG 5	CVC_CVC_G5	HARRIS	GAS-CC	HOUSTON	2008	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0	144.0
73 DANSBY CTG 2	DANSBY_DANSBYG2	BRAZOS	GAS-GT	NORTH	2004	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
74 DANSBY CTG 3	DANSBY_DANSBYG3	BRAZOS	GAS-GT	NORTH	2010	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
75 DANSBY STG 1	DANSBY_DANSBYG1	BRAZOS	GAS-ST	NORTH	1978	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0	107.0
76 DECKER CREEK CTG 1	DECKER_DPGT_1	TRAVIS	GAS-GT	SOUTH	1989	48.0										

Unit Megawatt Capacities - Summer

UNIT NAME		INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
136 GUADALUPE ENERGY CENTER CTG 4			GUADG_GAS4	GUADALUPE	GAS-CC	SOUTH	2000	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0
137 GUADALUPE ENERGY CENTER STG 5			GUADG_STM5	GUADALUPE	GAS-CC	SOUTH	2000	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
138 GUADALUPE ENERGY CENTER STG 6			GUADG_STM6	GUADALUPE	GAS-CC	SOUTH	2000	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0	198.0
139 HANDLEY STG 3			HLSSE_UNIT3	TARRANT	GAS-ST	NORTH	1963	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0
140 HANDLEY STG 4			HLSSE_UNIT4	TARRANT	GAS-ST	NORTH	1976	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
141 HANDLEY STG 5			HLSSE_UNIT5	TARRANT	GAS-ST	NORTH	1977	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
142 HAYS ENERGY FACILITY CSG 1			HAYSEN_HAYSENG1	HAYS	GAS-CC	SOUTH	2002	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
143 HAYS ENERGY FACILITY CSG 2		21INR0527	HAYSEN_HAYSENG2	HAYS	GAS-CC	SOUTH	2002	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0	211.0
144 HAYS ENERGY FACILITY CSG 3		21INR0527	HAYSEN_HAYSENG3	HAYS	GAS-CC	SOUTH	2002	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
145 HAYS ENERGY FACILITY CSG 4			HAYSEN_HAYSENG4	HAYS	GAS-CC	SOUTH	2002	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0	213.0
146 HIDALGO ENERGY CENTER CTG 1			DUKE_DUK_E_GT1	HIDALGO	GAS-CC	SOUTH	2000	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
147 HIDALGO ENERGY CENTER CTG 2			DUKE_DUK_E_GT2	HIDALGO	GAS-CC	SOUTH	2000	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0	149.0
148 HIDALGO ENERGY CENTER STG 1			DUKE_DUK_E_ST1	HIDALGO	GAS-CC	SOUTH	2000	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0	168.0
149 JACK COUNTY GEN FACILITY CTG 1			JACKCNTY_CT1	JACK	GAS-CC	NORTH	2006	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
150 JACK COUNTY GEN FACILITY CTG 2			JACKCNTY_CT2	JACK	GAS-CC	NORTH	2006	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0	155.0
151 JACK COUNTY GEN FACILITY CTG 3			JCKCNTY2_CT3	JACK	GAS-CC	NORTH	2011	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
152 JACK COUNTY GEN FACILITY CTG 4			JCKCNTY2_CT4	JACK	GAS-CC	NORTH	2011	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
153 JACK COUNTY GEN FACILITY STG 1			JACKCNTY_STG	JACK	GAS-CC	NORTH	2006	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0
154 JACK COUNTY GEN FACILITY STG 2			JCKCNTY2_ST2	JACK	GAS-CC	NORTH	2011	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0	295.0
155 JOHNSON COUNTY GEN FACILITY CTG 1			TEN_CT1	JOHNSON	GAS-CC	NORTH	1997	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0	163.0
156 JOHNSON COUNTY GEN FACILITY STG 1			TEN_STG	JOHNSON	GAS-CC	NORTH	1997	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
157 LAKE HUBBARD STG 1			LHSES_UNIT1	DALLAS	GAS-ST	NORTH	1970	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
158 LAKE HUBBARD STG 2			LHSES_UNIT2A	DALLAS	GAS-ST	NORTH	1973	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
159 LAMAR ENERGY CENTER CTG 11			LP														

Unit Megawatt Capacities - Summer

UNIT NAME	INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
920 RE MAPLEWOOD 2A SOLAR	17	INR0020a	PECOS	SOLAR	WEST	2021	-	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0	222.0
921 RE MAPLEWOOD 2B SOLAR	17	INR0020b	PECOS	SOLAR	WEST	2021	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
922 RED HOLLY SOLAR	21	INR0022	DAWSON	SOLAR	WEST	2023	-	-	-	260.0	260.0	260.0	260.0	260.0	260.0	260.0
923 RED-TAILED HAWK SOLAR	21	INR0389	WHARTON	SOLAR	SOUTH	2021	-	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3
924 RIPPEY SOLAR	20	INR0031	COOKE	SOLAR	NORTH	2020	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
925 RODEO SOLAR	19	INR0103	ANDREWS	SOLAR	WEST	2021	-	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
926 ROSELAND SOLAR	20	INR0205	FALLS	SOLAR	NORTH	2022	-	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0
927 RUETER SOLAR	20	INR0202	BOSQUE	SOLAR	NORTH	2022	-	-	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
928 SBRANCH SOLAR PROJECT	22	INR0205	WHARTON	SOLAR	SOUTH	2022	-	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0	154.0
929 SECOND DIVISION SOLAR	20	INR0248	BRAZORIA	SOLAR	COASTAL	2022	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
930 SHAKES SOLAR	19	INR0073	ZAVALA	SOLAR	SOUTH	2021	-	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0	206.0
931 SODA LAKE SOLAR 2	20	INR0143	CRANE	SOLAR	WEST	2022	-	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0
932 SOLEMIO	19	INR0093	HOPKINS	SOLAR	NORTH	2021	-	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
933 SPARTA SOLAR	22	INR0352	BEE	SOLAR	SOUTH	2022	-	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
934 STARR SOLAR RANCH	20	INR0216	STARR	SOLAR	SOUTH	2021	-	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
935 STRATEGIC SOLAR 1	20	INR0081	ELLIS	SOLAR	NORTH	2021	-	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9
936 SUN VALLEY	19	INR0169	HILL	SOLAR	NORTH	2022	-	-	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
937 TAYGETE II SOLAR	21	INR0233	PECOS	SOLAR	WEST	2021	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8
938 TAYGETE SOLAR	20	INR0054	PECOS	SOLAR	WEST	2021	255.1	255.1	255.1	255.1	255.1	255.1	255.1	255.1	255.1	255.1
939 TEXAS SOLAR NOVA	19	INR0001	KENT	SOLAR	WEST	2022	-	252.2	252.2	252.2	252.2	252.2	252.2	252.2	252.2	252.2
940 TIMBERWOLF POI A	20	INR0226	UPTON	SOLAR	WEST	2022	-	-	152.1	152.1	152.1	152.1	152.1	152.1	152.1	152.1
941 TRES BAHIAS SOLAR	20	INR0266	CALHOUN	SOLAR	COASTAL	2021	-	195.0	195.0	195.0	195.0	195.0	195.0	195.0	195.0	195.0
942 TYSON NICK SOLAR	20	INR0222	LAMAR	SOLAR	NORTH	2021	-	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
943 UPTON SOLAR	16	INR0114	UPTON	SOLAR	WEST	2021	-	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
944 VANCOURT SOLAR	21	INR0213	CAMERON	SOLAR	COASTAL	2021	-	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
945 VISION SOLAR 1	20	INR0082	NAVARRO	SOLAR	NORTH	2021	-	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2	129.2
946 WAGYU SOLAR	18	INR0062	BRAZORIA	SOLAR	COASTAL	2020	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
947 WESTORIA SOLAR	20	INR0101	BRAZORIA	SOLAR	COASTAL	2021	-	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4	203.4
948 ZIER SOLAR	21	INR0019	KINNEY	SOLAR	SOUTH	2022	-	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
949 Planned Capacity Total (Solar)							3,798.8	15,389.5	17,056.6	17,916.6	17,916.6	17,916.6	17,916.6	17,916.6	17,916.6	17,916.6
950 Solar Peak Average Capacity Percentage		SOLAR_PL_PEAK_PCT	%				80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
951																
952 Planned Storage Resources with Executed SGIA																
953 AZURE SKY BESS	21	INR0476	HASKELL	STORAGE	WEST	2021	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
954 BAT CAVE	21	INR0365	MASON	STORAGE	SOUTH	2021	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
955 BRP DICKENS BESS	22	INR0325	DICKENS	STORAGE	PANHANDLE	2022	-	-	202.4	202.4	202.4	202.4	202.4	202.4	202.4	202.4
956 CHISHOLM GRID	20	INR0089	TARRANT	STORAGE	NORTH	2021	-	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7
957 CROSSETT POWER BATT	21	INR0510	CRANE	STORAGE	WEST	2021	-	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6	208.6
958 EUNICE STORAGE	20	INR0220	ANDREWS	STORAGE	WEST	2021	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3	40.3
959 GAMBIT	21	INR0364	BRAZORIA	STORAGE	COASTAL	2021	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4
960 GREEN HOLLY STORAGE	21	INR0029	DAWSON	STORAGE	WEST	2023	-	-	-	50.0	50.0	50.0	50.0	50.0	50.0	50.0
961 HIGH LONESOME BESS	20	INR0280	CROCKETT	STORAGE	WEST	2022	-	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
962 IGNACIO GRID	21	INR0522	HIDALGO	STORAGE	SOUTH	2021	-	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
963 LILY STORAGE	20	INR0294	KAUFMAN	STORAGE	NORTH	2021	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
964 MADERO GRID	21	INR0244	HIDALGO	STORAGE	SOUTH	2021	-	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
965 NORTH FORK	20	INR0276	WILLIAMSON	STORAGE	SOUTH	2021	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
966 QUEEN BESS	20	INR0281	UPTON	STORAGE	WEST	2022	-	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
967 RED HOLLY STORAGE	21	INR0033	DAWSON	STORAGE	WEST	2023	-	-	-	50.0	50.0	50.0	50.0	50.0	50.0	50.0
968 REPUBLIC ROAD STORAGE	21	INR0460	ROBERTSON	STORAGE	NORTH	2021	-	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
969 ROUGHNECK STORAGE	19	INR0176	BRAZORIA	STORAGE	COASTAL	2021	-	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
970 SILICON HILL STORAGE	21	INR0291	TRAVIS	STORAGE	SOUTH	2021	-	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6	104.6
971 SP TX-12B BESS	21	INR0357	UPTON	STORAGE	WEST	2021	-	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1	25.1
972 BRP DICKINSON (DGR)		BRP_DIKN_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
973 BRP MAGNOLIA (DGR)		BRP_MAGNO_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
974 BRP PUEBLO I (DGR)		BRP_PBL1_UNIT1	MAVERICK	STORAGE	SOUTH	2020	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
975 BRP PUEBLO II (DGR)		BRP_PBL2_UNIT1	MAVERICK	STORAGE	SOUTH	2020	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
976 BRP SEMINOLE (DGR)		BRP_SEMI_UNIT1	GALVESTON	STORAGE	HOUSTON	2020	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
977 BRP SWEENEY (DGR)		BRP_SWNY_UNIT1	BRAZORIA	STORAGE	COASTAL	2020	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
978 BRP ZAPATA I (DGR)		BRP_ZPT1_UNIT1	ZAPATA	STORAGE	SOUTH	2020	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
979 BRP ZAPATA II (DGR)		BRP_ZPT2_UNIT1	ZAPATA	STORAGE	SOUTH	2020	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
980 FLOWER VALLEY BATTERY (DGR)		FLVABES1_FLATU1	REEVES	STORAGE	WEST	2020	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
981 HOEFSROAD BESS (DGR)		HRBESS_BESS	REEVES	STORAGE	WEST	2020	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
982 SWOOSE BATTERY (DGR)		SWOOSE1_SWOOSEU1	WARD	STORAGE	WEST	2020	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
983 TRIPLE BUTTE (DGR)		TRIPBUT1_BELU1	PECOS	STORAGE	WEST	2021	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
984 Planned Capacity Total (Storage)							572.1	1,415.1	1,617.5	1,717.5	1,717.5	1,717.5	1,717.5	1,717.5	1,717.5	1,717.5
985 Storage Peak Average Capacity Percentage		STORAGE_PL_PEAK_PCT	%				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
986																
987 Inactive Planned Resources																
988 HALYARD WHARTON ENERGY CENTER	16	INR0044	WHARTON	GAS-GT	SOUTH	2021	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0	484.0
989 CHOCOLATE BAYOU W	16	INR0074	BRAZORIA	WIND-C	COASTAL	2022	-	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5	149.5
990 GOODNIGHT WIND	14	INR0033	ARMSTRONG	WIND-P	PANHANDLE	2022	-	504.4	504.4	504.4	504.4	504.4	504.4	504.4	504.4	504.4
991 MARIAH DEL ESTE	13	INR0010a	PARMER	WIND-P	PANHANDLE	2020	152.5	152.5	152.5	152.5	152.5	152.5	152.5	152.5	152.5	152.5
992 NORTHDRAW WIND	13	INR0025	RANDALL	WIND-P	PANHANDLE	2020	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
993 PANHANDLE WIND 3	14	INR0030c	CARSON	WIND-P	PANHANDLE	2022	-	-	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0
994 WILDROSE WIND (SWISHER WIND)	13	INR0038	SWISHER	WIND-P	PANHANDLE	2021	-	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5	302.5
995 LOMA PINTA WIND	16	INR0112	LA SALLE	WIND-O	SOUTH	2021	-	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
996 AGATE SOLAR	20	INR0023	ELLIS	SOLAR	NORTH	2020	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
997 GARNET SOLAR	20	INR0021	WILLIAMSON	SOLAR	SOUTH	2020	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

Unit Megawatt Capacities - Summer

UNIT NAME	INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
998 MISAE SOLAR II	20INR0091		CHILDRESS	SOLAR	PANHANDLE	2022	-	-	517.3	517.3	517.3	517.3	517.3	517.3	517.3	517.3
999 SPINEL SOLAR	20INR0025		MEDINA	SOLAR	SOUTH	2020	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
1000 Inactive Planned Capacity Total							896.5	2,052.9	2,818.2	2,818.2	2,818.2	2,818.2	2,818.2	2,818.2	2,818.2	2,818.2
1001																
1002 Seasonal Mothballed Resources																
1003 GREGORY POWER PARTNERS GT1 (AS OF 10/17/2019, AVAILABLE 5/1 THROUGH 9/30)		LGE_LGE_GT1	SAN PATRICIO	GAS-CC	COASTAL	2000	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
1004 GREGORY POWER PARTNERS GT2 (AS OF 10/17/2019, AVAILABLE 5/1 THROUGH 9/30)		LGE_LGE_GT2	SAN PATRICIO	GAS-CC	COASTAL	2000	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0	145.0
1005 GREGORY POWER PARTNERS STG (AS OF 10/17/2019,AVAILABLE 5/1 THROUGH 9/30)		LGE_LGE_STG	SAN PATRICIO	GAS-CC	COASTAL	2000	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
1006 SPENCER STG U4 (AS OF 10/3/2018, AVAILABLE 5/20 THROUGH 10/10)		SPNCER_SPNCE_4	DENTON	GAS-ST	NORTH	1966	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
1007 SPENCER STG U5 (AS OF 10/3/2018, AVAILABLE 5/20 THROUGH 10/10)		SPNCER_SPNCE_5	DENTON	GAS-ST	NORTH	1973	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
1008 NACOGDOCHES POWER (AS OF 10/16/2020, AVAILABLE 5/15 THROUGH 10/15)		NACPW_UNIT1	NACOGDOCHES	BIOMASS	NORTH	2012	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
1009 Total Seasonal Mothballed Capacity							588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0	588.0
1010																
1011 Mothballed Resources																
1012 J T DEELY U1 (AS OF 12/31/2018)		CALAVERS_JTD1_M	BEXAR	COAL	SOUTH	1977	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0
1013 J T DEELY U2 (AS OF 12/31/2018)		CALAVERS_JTD2_M	BEXAR	COAL	SOUTH	1978	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0
1014 Total Mothballed Capacity							840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
1015																
1016 Retiring Resources Unavailable to ERCOT (since last CDR/SARA)																
1017 TEXAS GULF SULPHUR CTG 1 (RETIRED ON 11/30/2020)		TGF_TGFGT_1	WHARTON	GAS-GT	SOUTH	1985	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
1018 Total Retiring Capacity							69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0

Notes:

Capacity changes due to planned repower/upgrade projects are reflected in the operational units' ratings upon receipt and ERCOT approval of a new Resource Asset Registration Form (RARF). 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 regulation reserves rather than sustained capacity available to meet system peak loads.

Unit Names with a (DGR) suffix are Distribution Generation Resources. A DGR fully participates in ERCOT's markets, but is connected to the Distribution System and is currently not required to go through the GINR application process.

Summer Fuel Types - ERCOT

Fuel type is based on the primary fuel. Capacity contribution of the wind resources is included at 61% for Coastal counties, 29% for Panhandle counties, and 19% for all other counties, while the solar capacity contribution is 80%. Private Use Network, and Hydro are included based on the three-year average historical capability for each Summer Season's 20 peak load hours. Non-Synchronous Tie resources import forecast is based on flows seen during Energy Emergency Alert (EEA) periods in the most recent summer of occurrence. Non-Synchronous Tie resources are categorized as Other. Mothballed resource capacity is excluded except for Available Mothball Capacity based on a Seasonal Availability Schedule or Owner's reported Return Probability. Private Use Network generator capacity is categorized as gas.

In MW

Fuel_Type	Capacity_Pct	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Biomass	100%	64	64	64	64	64	64	64	64	64	64
Coal	100%	13,568	13,568	13,568	13,568	13,568	13,568	13,568	13,568	13,568	13,568
Gas	100%	52,040	52,336	52,331	52,286	52,246	52,031	52,031	52,026	52,026	52,026
Nuclear	100%	4,973	4,973	4,973	4,973	4,973	4,973	4,973	4,973	4,973	4,973
Other	70%	850	850	850	850	850	850	850	850	850	850
Hydro	86%	479	479	479	479	479	479	479	479	479	479
Wind-C	61%	3,017	3,139	3,276	3,276	3,276	3,276	3,276	3,276	3,276	3,276
Wind-P	29%	1,279	1,328	1,372	1,372	1,372	1,372	1,372	1,372	1,372	1,372
Wind-O	19%	4,187	5,297	5,392	5,468	5,468	5,468	5,468	5,468	5,468	5,468
Solar	80%	6,108	15,380	16,714	17,402	17,402	17,402	17,402	17,402	17,402	17,402
Storage	0%	-	-	-	-	-	-	-	-	-	-
Total		86,564	97,415	99,019	99,738	99,698	99,483	99,483	99,478	99,478	99,478

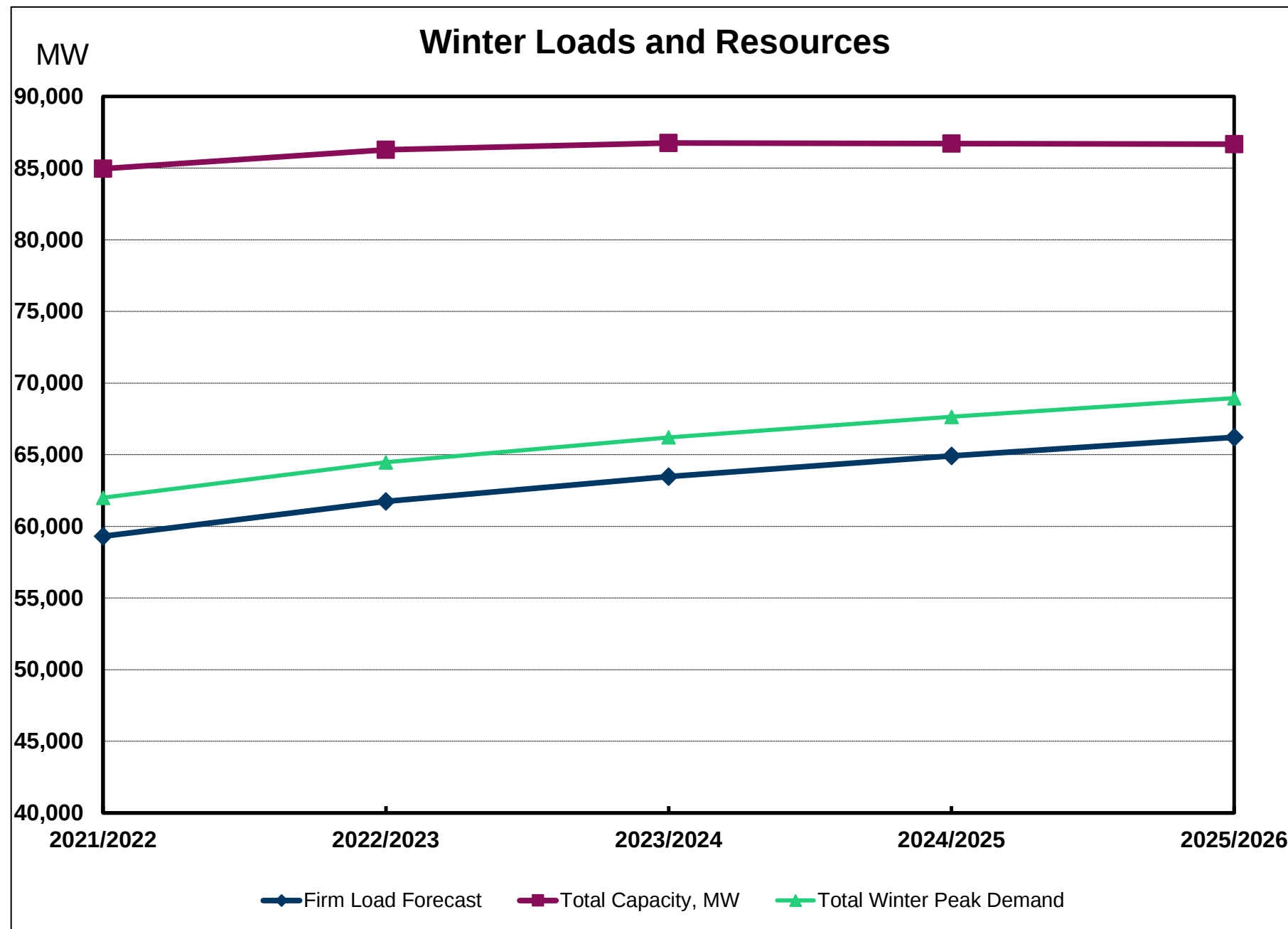
In Percentages

Fuel_Type	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Biomass	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Coal	16%	14%	14%	14%	14%	14%	14%	14%	14%	14%
Natural Gas	60%	54%	53%	52%	52%	52%	52%	52%	52%	52%
Nuclear	6%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Other	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Hydro	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Wind-C	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
Wind-P	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
Wind-O	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Solar	7%	16%	17%	17%	17%	17%	17%	17%	17%	17%
Storage	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Report on the Capacity, Demand and Reserves in the ERCOT Region

Winter Summary: 2021/2022 through 2025/2026

Load Forecast, MW:	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026
Winter Peak Demand (based on normal weather)	62,001	64,472	66,212	67,648	68,952
plus: Energy Efficiency Program Savings Forecast	2,110	2,337	2,648	2,884	3,205
Total Winter Peak Demand (before Reductions from Energy Efficiency Programs)	64,111	66,809	68,860	70,532	72,157
less: Rooftop solar PV Forecast	0	0	0	0	0
less: Load Resources providing Responsive Reserves	-1,570	-1,570	-1,570	-1,570	-1,570
less: Load Resources providing Non-Spinning Reserves	0	0	0	0	0
less: Emergency Response Service (10- and 30-min ramp products)	-1,109	-1,162	-1,162	-1,162	-1,162
less: TDSP Standard Offer Load Management Programs	0	0	0	0	0
less: Energy Efficiency Program Savings Forecast	-2,110	-2,337	-2,648	-2,884	-3,205
Firm Peak Load, MW	59,322	61,740	63,480	64,916	66,220
Resources, MW:	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026
Installed Capacity, Thermal/Hydro	67,470	67,545	67,545	67,545	67,545
Switchable Capacity	3,710	3,710	3,710	3,710	3,710
less: Switchable Capacity Unavailable to ERCOT	-568	-568	-568	-568	-568
Available Mothballed Capacity	0	0	0	0	0
Capacity from Private Use Networks	3,554	3,467	3,462	3,417	3,377
Coastal Wind, Peak Average Capacity Contribution (43% of installed capacity)	1,542	1,542	1,542	1,542	1,542
Panhandle Wind, Peak Average Capacity Contribution (32% of installed capacity)	1,411	1,411	1,411	1,411	1,411
Other Wind, Peak Average Capacity Contribution (19% of installed capacity)	3,251	3,251	3,251	3,251	3,251
Solar Utility-Scale, Peak Average Capacity Contribution (7% of installed capacity)	269	269	269	269	269
Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
RMR Capacity to be under Contract	0	0	0	0	0
Capacity Pending Retirement	-235	-235	-235	-235	-235
Operational Generation Capacity, MW	80,404	80,392	80,387	80,342	80,302
Non-Synchronous Ties, Capacity (Based on average net import contribution during winter 2014 EEA events)	838	838	838	838	838
Planned Resources (not wind, solar or storage) with Signed IA, Air Permits and Adequate Water Supplies	1,139	1,199	1,199	1,199	1,199
Planned Coastal Wind with Signed IA, Peak Average Capacity Contribution (43% of installed capacity)	584	671	767	767	767
Planned Panhandle Wind with Signed IA, Peak Average Capacity Contribution (32% of installed capacity)	0	54	103	103	103
Planned Other Wind with Signed IA, Peak Average Capacity Contribution (19% of installed capacity)	1,542	2,046	2,217	2,217	2,217
Planned Solar Utility-Scale, Peak Average Capacity Contribution (7% of installed capacity)	459	1,088	1,254	1,254	1,254
Planned Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
Total Capacity, MW	84,966	86,287	86,764	86,719	86,679
Reserve Margin	43.2%	39.8%	36.7%	33.6%	30.9%
(Total Resources - Firm Load Forecast) / Firm Load Forecast					



Unit Megawatt Capacities - Winter

UNIT NAME	INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
137 GUADALUPE ENERGY CENTER STG 5		GUADG_STM5	GUADALUPE	GAS-CC	SOUTH	2000	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0
138 GUADALUPE ENERGY CENTER STG 6		GUADG_STM6	GUADALUPE	GAS-CC	SOUTH	2000	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0	203.0
139 HANDLEY STG 3		HLSES_UNIT3	TARRANT	GAS-ST	NORTH	1963	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0	395.0
140 HANDLEY STG 4		HLSES_UNIT4	TARRANT	GAS-ST	NORTH	1976	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
141 HANDLEY STG 5		HLSES_UNIT5	TARRANT	GAS-ST	NORTH	1977	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0	435.0
142 HAYS ENERGY FACILITY CSG 1		HAYSEN_HAYSENG1	HAYS	GAS-CC	SOUTH	2002	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
143 HAYS ENERGY FACILITY CSG 2	21INR0527	HAYSEN_HAYSENG2	HAYS	GAS-CC	SOUTH	2002	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
144 HAYS ENERGY FACILITY CSG 3	21INR0527	HAYSEN_HAYSENG3	HAYS	GAS-CC	SOUTH	2002	242.0	242.0	242.0	242.0	242.0	242.0	242.0	242.0	242.0	242.0
145 HAYS ENERGY FACILITY CSG 4		HAYSEN_HAYSENG4	HAYS	GAS-CC	SOUTH	2002	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0	243.0
146 HIDALGO ENERGY CENTER CTG 1		DUKE_DUKE_GT1	HIDALGO	GAS-CC	SOUTH	2000	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
147 HIDALGO ENERGY CENTER CTG 2		DUKE_DUKE_GT2	HIDALGO	GAS-CC	SOUTH	2000	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
148 HIDALGO ENERGY CENTER STG 1		DUKE_DUKE_ST1	HIDALGO	GAS-CC	SOUTH	2000	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0	176.0
149 JACK COUNTY GEN FACILITY CTG 1		JACKCNTY_CT1	JACK	GAS-CC	NORTH	2006	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
150 JACK COUNTY GEN FACILITY CTG 2		JACKCNTY_CT2	JACK	GAS-CC	NORTH	2006	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
151 JACK COUNTY GEN FACILITY CTG 3		JCKCNTY2_CT3	JACK	GAS-CC	NORTH	2011	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0
152 JACK COUNTY GEN FACILITY CTG 4		JCKCNTY2_CT4	JACK	GAS-CC	NORTH	2011	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0
153 JACK COUNTY GEN FACILITY STG 1		JACKCNTY_STG	JACK	GAS-CC	NORTH	2006	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0	293.0
154 JACK COUNTY GEN FACILITY STG 2		JCKCNTY2_ST2	JACK	GAS-CC	NORTH	2011	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0	310.0
155 JOHNSON COUNTY GEN FACILITY CTG 1		TEN_CT1	JOHNSON	GAS-CC	NORTH	1997	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0	177.0
156 JOHNSON COUNTY GEN FACILITY STG 1		TEN_STG	JOHNSON	GAS-CC	NORTH	1997	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
157 LAKE HUBBARD STG 1		LHSES_UNIT1	DALLAS	GAS-ST	NORTH	1970	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
158 LAKE HUBBARD STG 2		LHSES_UNIT2A	DALLAS	GAS-ST	NORTH	1973	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
159 LAMAR ENERGY CENTER CTG 11		LPCCS_CT11	LAMAR	GAS-CC	NORTH	2000	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0
160 LAMAR ENERGY CENTER CTG 12		LPCCS_CT12	LAMAR	GAS-CC	NORTH	2000	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0
161 LAMAR ENERGY CENTER CTG 21		LPCCS_CT21	LAMAR	GAS-CC	NORTH	2000	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0	178.0
162 LAMAR ENERGY CENTER CTG 22		LPCCS_CT22	LAMAR	GAS-CC	NORTH	2000	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0	186.0
163 LAMAR ENERGY CENTER STG 1		LPCCS_UNIT1	LAMAR	GAS-CC	NORTH	2000	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
164 LAMAR ENERGY CENTER STG 2		LPCCS_UNIT2	LAMAR	GAS-CC	NORTH	2000	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
165 LAREDO CTG 4		LARDVFTN_G4	WEBB	GAS-GT	SOUTH	2008	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
166 LAREDO CTG 5		LARDVFTN_G5	WEBB	GAS-GT	SOUTH	2008	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
167 LEON CREEK PEAKER CTG 1		LEON_CRK_LCPCT1	BEXAR	GAS-GT	SOUTH	2004	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
168 LEON CREEK PEAKER CTG 2		LEON_CRK_LCPCT2	BEXAR	GAS-GT	SOUTH	2004	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
169 LEON CREEK PEAKER CTG 3		LEON_CRK_LCPCT3	BEXAR	GAS-GT	SOUTH	2004	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
170 LEON CREEK PEAKER CTG 4		LEON_CRK_LCPCT4	BEXAR	GAS-GT	SOUTH	2004	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
171 LOST PINES POWER CTG 1		LOSTPL_LOSTPGT1	BASTROP	GAS-CC	SOUTH	2001	183.0	183.0	183.0	183.0	183.0	183.0	183.0	183.0	183.0	183.0
172 LOST PINES POWER CTG 2		LOSTPL_LOSTPGT2	BASTROP	GAS-CC	SOUTH	2001	183.0	183.0	183.0	183.0	183.0	183.0	183.0	183.0	183.0	183.0
173 LOST PINES POWER STG 1		LOSTPL_LOSTPST1	BASTROP	GAS-CC	SOUTH	2001	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0	192.0
174 MAGIC VALLEY STATION CTG 1		NEDIN_NEDIN_G1	HIDALGO	GAS-CC	SOUTH	2001	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
175 MAGIC VALLEY STATION CTG 2		NEDIN_NEDIN_G2	HIDALGO	GAS-CC	SOUTH	2001	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6	218.6
176 MAGIC VALLEY STATION CTG 3		NEDIN_NEDIN_G3	HIDALGO	GAS-CC	SOUTH	2001	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9
177 MIDLOTHIAN ENERGY FACILITY CTG 1		MDANP_CT1	ELLIS	GAS-CC	NORTH	2001	258.0	258.0	258.0	258.0	258.0	258.0	258.0	258.0	258.0	258.0
178 MIDLOTHIAN ENERGY FACILITY CTG 2		MDANP_CT2	ELLIS	GAS-CC	NORTH	2001	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0	256.0
179 MIDLOTHIAN ENERGY FACILITY CTG 3		MDANP_CT3	ELLIS	GAS-CC	NORTH	2001	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0
180 MIDLOTHIAN ENERGY FACILITY CTG 4		MDANP_CT4	ELLIS	GAS-CC	NORTH	2001	258.0	258.0	258.0	258.0	258.0	258.0	258.0	258.0	258.0	258.0
181 MIDLOTHIAN ENERGY FACILITY CTG 5		MDANP_CT5	ELLIS	GAS-CC	NORTH	2002	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0	276.0
182 MIDLOTHIAN ENERGY FACILITY CTG 6		MDANP_CT6	ELLIS	GAS-CC	NORTH	2002	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
183 MORGAN CREEK CTG 1		MGSES_CT1	MITCHELL	GAS-GT	WEST	1988	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
184 MORGAN CREEK CTG 2		MGSES_CT2	MITCHELL	GAS-GT	WEST	1988	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
185 MORGAN CREEK CTG 3		MGSES_CT3	MITCHELL	GAS-GT	WEST	1988	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
186 MORGAN CREEK CTG 4		MGSES_CT4	MITCHELL	GAS-GT	WEST	1988	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
187 MORGAN CREEK CTG 5		MGSES_CT5	MITCHELL	GAS-GT	WEST	1988	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
188 MORGAN CREEK CTG 6		MGSES_CT6	MITCHELL	GAS-GT	WEST	1988	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0
189 MOUNTAIN CREEK STG 6		MCSES_UNIT6	DALLAS	GAS-ST	NORTH	1956	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
190 MOUNTAIN CREEK STG 7		MCSES_UNIT7	DALLAS	GAS-ST	NORTH	1958	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
191 MOUNTAIN CREEK STG 8		MCSES_UNIT8	DALLAS	GAS-ST	NORTH	1967	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0	568.0
192 NUECES BAY REPOWER CTG 8		NUECES_B_NUECESG8	NUECES	GAS-CC	COASTAL	2010	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0
193 NUECES BAY REPOWER CTG 9		NUECES_B_NUECESG9	NUECES	GAS-CC	COASTAL	2010	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0	165.0
194 NUECES BAY REPOWER STG 7		NUECES_B_NUECESG7	NUECES	GAS-CC	COASTAL	1972	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0
195 O W SOMMERS STG 1		CALAVERS_OWS1	BEXAR	GAS-ST	SOUTH	1972	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0	420.0
196 O W SOMMERS STG 2		CALAVERS_OWS2	BEXAR	GAS-ST	SOUTH	1974	410.0	410.0	410.0	410.0	410.0	410.0	410.0	410.0	410.0	410.0
197 ODESSA-ECTOR POWER CTG 11		OECCS_CT11	ECTOR	GAS-CC	WEST	2001	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2
198 ODESSA-ECTOR POWER CTG 12		OECCS_CT12	ECTOR	GAS-CC	WEST	2001	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1
199 ODESSA-ECTOR POWER CTG 21	20INR0282	OECCS_CT21	ECTOR	GAS-CC	WEST	2001	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2
200 ODESSA-ECTOR POWER CTG 22	20INR0282	OECCS_CT22	ECTOR	GAS-CC	WEST	2001	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1	189.1
201 ODESSA-ECTOR POWER STG 1		OECCS_UNIT1	ECTOR	GAS-CC	WEST	2001	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0
202 ODESSA-ECTOR POWER STG 2	20INR0282	OECCS_UNIT2	ECTOR	GAS-CC	WEST	2001	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0
203 PANDA SHERMAN POWER CTG 1		PANDA_S_SHER1CT1	GRAYSON	GAS-CC	NORTH	2014	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0
204 PANDA SHERMAN POWER CTG 2		PANDA_S_SHER1CT2	GRAYSON	GAS-CC	NORTH	2014	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0	220.0
205 PANDA SHERMAN POWER STG 1		PANDA_S_SHER1ST1	GRAYSON	GAS-CC	NORTH	2014	312.0	312.0	312.0	312.0	312.0	312.0	312.0	312.0	312.0	312.0
206 PANDA TEMPLE I POWER CTG 1		PANDA_T1_TMPL1CT1	BELL	GAS-CC	NORTH	2014	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5
207 PANDA TEMPLE I POWER CTG 2		PANDA_T1_TMPL1CT2	BELL	GAS-CC	NORTH	2014	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5
208 PANDA TEMPLE I POWER STG 1		PANDA_T1_TMPL1ST1	BELL	GAS-CC	NORTH	2014	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6	333.6
209 PANDA TEMPLE II POWER CTG 1		PANDA_T2_TMPL2CT1	BELL	GAS-CC	NORTH	2015	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5	218.5
210 PANDA TEMPLE II POWER CTG 2		PANDA_T2_TMPL2CT2	BELL													

Unit Megawatt Capacities - Winter

UNIT NAME	INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
271 SANDHILL ENERGY CENTER CTG 7		SANDHSYD_SH7	TRAVIS	GAS-GT	SOUTH	2010	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
272 SANDHILL ENERGY CENTER STG 5C		SANDHSYD_SH_5C	TRAVIS	GAS-CC	SOUTH	2004	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
273 SILAS RAY CTG 10		SILASRAY_SILAS_10	CAMERON	GAS-GT	COASTAL	2004	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
274 SILAS RAY POWER CTG 9		SILASRAY_SILAS_9	CAMERON	GAS-CC	COASTAL	1996	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
275 SILAS RAY POWER STG 6		SILASRAY_SILAS_6	CAMERON	GAS-CC	COASTAL	1962	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
276 SIM GIDEON STG 1		GIDEON_GIDEONG1	BASTROP	GAS-ST	SOUTH	1965	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0	130.0
277 SIM GIDEON STG 2		GIDEON_GIDEONG2	BASTROP	GAS-ST	SOUTH	1968	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
278 SIM GIDEON STG 3		GIDEON_GIDEONG3	BASTROP	GAS-ST	SOUTH	1972	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0
279 SKY GLOBAL POWER ONE IC A		SKY1_SKY1A	COLORADO	GAS-IC	SOUTH	2016	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
280 SKY GLOBAL POWER ONE IC B		SKY1_SKY1B	COLORADO	GAS-IC	SOUTH	2016	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
281 STRYKER CREEK STG 1		SCSES_UNIT1A	CHEROKEE	GAS-ST	NORTH	1958	167.0	167.0	167.0	167.0	167.0	167.0	167.0	167.0	167.0	167.0
282 STRYKER CREEK STG 2		SCSES_UNIT2	CHEROKEE	GAS-ST	NORTH	1965	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0	502.0
283 T H WHARTON CTG 1		THW_THWGT_1	HARRIS	GAS-GT	HOUSTON	1967	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
284 T H WHARTON POWER CTG 31		THW_THWGT31	HARRIS	GAS-CC	HOUSTON	1972	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
285 T H WHARTON POWER CTG 32		THW_THWGT32	HARRIS	GAS-CC	HOUSTON	1972	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
286 T H WHARTON POWER CTG 33		THW_THWGT33	HARRIS	GAS-CC	HOUSTON	1972	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
287 T H WHARTON POWER CTG 34		THW_THWGT34	HARRIS	GAS-CC	HOUSTON	1972	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
288 T H WHARTON POWER CTG 41		THW_THWGT41	HARRIS	GAS-CC	HOUSTON	1972	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
289 T H WHARTON POWER CTG 42		THW_THWGT42	HARRIS	GAS-CC	HOUSTON	1972	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
290 T H WHARTON POWER CTG 43		THW_THWGT43	HARRIS	GAS-CC	HOUSTON	1974	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
291 T H WHARTON POWER CTG 44		THW_THWGT44	HARRIS	GAS-CC	HOUSTON	1974	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
292 T H WHARTON POWER CTG 51		THW_THWGT51	HARRIS	GAS-GT	HOUSTON	1975	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
293 T H WHARTON POWER CTG 52		THW_THWGT52	HARRIS	GAS-GT	HOUSTON	1975	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
294 T H WHARTON POWER CTG 53		THW_THWGT53	HARRIS	GAS-GT	HOUSTON	1975	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
295 T H WHARTON POWER CTG 54		THW														

Unit Megawatt Capacities - Winter

[illegible]

Unit Megawatt Capacities - Winter

UNIT NAME	INR	UNIT CODE	COUNTY	FUEL	ZONE	IN SERVICE	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
798 CAROL WIND	201NR0217		POTTER	WIND-P	PANHANDLE	2021	-	169.2	169.2	169.2	169.2	169.2	169.2	169.2	169.2	169.2
799 HART WIND	161NR0033		CASTRO	WIND-P	PANHANDLE	2022	-	-	151.5	151.5	151.5	151.5	151.5	151.5	151.5	151.5
800 AJAX WIND	201NR0142		WILBARGER	WIND-O	WEST	2021	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
801 ANCHOR WIND	211NR0387		EASTLAND	WIND-O	NORTH	2021	-	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
802 APOGEE WIND	211NR0467		HASKELL	WIND-O	WEST	2021	-	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
803 AQUILLA LAKE WIND	191NR0145		HILL	WIND-O	NORTH	2021	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0	202.0
804 AQUILLA LAKE 2 WIND	201NR0256		HILL	WIND-O	NORTH	2021	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
805 AVIATOR WIND	191NR0156		COKE	WIND-O	WEST	2020	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0	525.0
806 BAIRD NORTH WIND	201NR0083		CALLAHAN	WIND-O	WEST	2021	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2	331.2
807 BAIRD NORTH II WIND	211NR0498		CALLAHAN	WIND-O	WEST	2021	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
808 BARROW RANCH (JUMBO HILL WIND)	181NR0038		ANDREWS	WIND-O	WEST	2020	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0	160.0
809 BIG SAMPSON WIND	161NR0104		CROCKETT	WIND-O	WEST	2023	-	-	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0
810 BLACKJACK CREEK WIND	201NR0068		BEE	WIND-O	SOUTH	2021	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
811 CACTUS FLATS WIND	161NR0086		CONCHO	WIND-O	WEST	2020	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4	148.4
812 CANYON WIND	181NR0030		SCURRY	WIND-O	WEST	2022	-	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4	259.4
813 COYTE WIND	171NR0027b		SCURRY	WIND-O	WEST	2020	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6	242.6
814 EDMONDSON RANCH WIND	181NR0043		GLASSCOCK	WIND-O	WEST	2021	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
815 FOXTROT WIND	201NR0129		KARNES	WIND-O	SOUTH	2022	-	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0	504.0
816 GRIFFIN TRAIL WIND	201NR0052		KNOX	WIND-O	WEST	2021	225.6	225.6	225.6	225.6	225.6	225.6	225.6	225.6	225.6	225.6
817 HARALD (BEARKAT WIND B)	151NR0064b		GLASSCOCK	WIND-O	WEST	2020	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1	162.1
818 HIDALGO II WIND	191NR0053		HIDALGO	WIND-O	SOUTH	2020	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
819 HIGH LONESOME W	191NR0038		CROCKETT	WIND-O	WEST	2021	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
820 HIGH LONESOME WIND PHASE II	201NR0262		CROCKETT	WIND-O	WEST	2021	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6	50.6
821 HUTT WIND	211NR0005		MIDLAND	WIND-O	WEST	2021	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
822 KONTIKI 1 WIND (ERIK)	191NR0099a		GLASSCOCK	WIND-O	WEST	2023	-	-	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1
823 KONTIKI 2 WIND (ERNEST)	191NR0099b		GLASSCOCK	WIND-O	WEST	2023	-	-	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1
824 VEINADO WIND	161NR0111		STARR	WIND-O	SOUTH	2020	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6
825 LORAIN WINDPARK PHASE III	181NR0068		MITCHELL	WIND-O	WEST	2022	-	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
826 MARYNEAL WINDPOWER	181NR0031		NOLAN	WIND-O	WEST	2021	182.4	182.4	182.4	182.4	182.4	182.4	182.4	182.4	182.4	182.4
827 MAVERICK CREEK I	201NR0045		CONCHO	WIND-O	WEST	2020	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2	373.2
828 MAVERICK CREEK II	201NR0046		CONCHO	WIND-O	WEST	2021	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8	118.8
829 MESTENO WIND	161NR0081		STARR	WIND-O	SOUTH	2020	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6
830 MONARCH CREEK WIND	211NR0263		THROCKMOR	WIND-O	WEST	2021	-	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0	209.0
831 OVEJA WIND	181NR0033		IRION	WIND-O	WEST	2020	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
832 PRAIRIE HILL WIND	191NR0100		MCLENNAN	WIND-O	NORTH	2020	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
833 PRIDDY WIND	161NR0085		MILLS	WIND-O	NORTH	2021	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
834 RELOJ DEL SOL WIND	171NR0025		ZAPATA	WIND-O	SOUTH	2021	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4	209.4
835 EASTLUNNER CROSSING WIND 1	191NR0117		EASTLAND	WIND-O	NORTH	2021	-	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2	200.2
836 RTS 2 WIND (HEART OF TEXAS WIND)	181NR0016		MCCULLOCH	WIND-O	SOUTH	2020	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9	179.9
837 SAGE DRAW WIND	191NR0163		LYNN	WIND-O	WEST	2020	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0	338.0
838 TG EAST WIND	191NR0052		KNOX	WIND-O	WEST	2021	-	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0	336.0
839 VERA WIND	191NR0051		KNOX	WIND-O	WEST	2020	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8
840 VERA WIND V110	201NR0305		KNOX	WIND-O	WEST	2020	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
841 VORTEX WIND	201NR0120		THROCKMOR	WIND-O	WEST	2021	-	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0	350.0
842 WHITE MESA WIND	191NR0128		CROCKETT	WIND-O	WEST	2021	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
843 WHITEHORSE WIND	191NR0080		FISHER	WIND-O	WEST	2020	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9	418.9
844 WILDWIND	201NR0033		COOKE	WIND-O	NORTH	2021	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1
845 WKN AMADEUS WIND	141NR0009		FISHER	WIND-O	WEST	2021	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1	250.1
846 Planned Capacity Total (Wind)							9,476.1	12,498.1	13,773.6	13,773.6	13,773.6	13,773.6	13,773.6	13,773.6	13,773.6	13,773.6
847																
848 Planned Wind Capacity Sub-total (Coastal Counties)		WIND_PLANNED_C					1,359.2	1,560.2	1,784.0	1,784.0	1,784.0	1,784.0	1,784.0	1,784.0	1,784.0	1,784.0
849 Wind Peak Average Capacity Percentage (Coastal)		WIND_PL_PEAK_PCT_C	%				43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
850																
851 Planned Wind Capacity Sub-total (Panhandle Counties)		WIND_PLANNED_P					-	169.2	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
852 Wind Peak Average Capacity Percentage (Panhandle)		WIND_PL_PEAK_PCT_P	%				32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
853																
854 Planned Wind Capacity Sub-total (Other counties)		WIND_PLANNED_O					8,116.9	10,768.7	11,668.9	11,668.9	11,668.9	11,668.9	11,668.9	11,668.9	11,668.9	11,668.9
855 Wind Peak Average Capacity Percentage (Other)		WIND_PL_PEAK_PCT_O	%				19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
856																
857 Planned Solar Resources with Executed SGIA																
858 7V SOLAR	211NR0351		FAYETTE	SOLAR	SOUTH	2023	-	-	246.3	246.3	246.3	246.3	246.3	246.3	246.3	246.3
859 ANSON SOLAR	191NR0081		JONES	SOLAR	WEST	2021	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5	201.5
860 ARAGORN SOLAR	191NR0088		CULBERSON	SOLAR	WEST	2021	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2	187.2
861 AZURE SKY SOLAR	211NR0477		HASKELL	SOLAR	WEST	2021	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4	228.4
862 BIG STAR SOLAR	211NR0413		BASTROP	SOLAR	SOUTH	2022	-	220.6	220.6	220.6	220.6	220.6	220.6	220.6	220.6	220.6
863 BLUE JAY SOLAR	191NR0085		GRIMES	SOLAR	NORTH	2021	-	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
864 BLUEBELL SOLAR II	201NR0204		STERLING	SOLAR	WEST	2020	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
865 BRAVEPOST SOLAR	201NR0053		TOM GREEN	SOLAR	WEST	2022	-	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
866 BRIGHTSIDE SOLAR	181NR0060		BEE	SOLAR	SOUTH	2021	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
867 CAROL SOLAR	211NR0274		POTTER	SOLAR	PANHANDLE	2021	-	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2	223.2
868 CASTRO SOLAR	201NR0050		CASTRO	SOLAR	PANHANDLE	2021	-	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0	223.0
869 CONCHO VALLEY SOLAR	211NR0384		TOM GREEN	SOLAR	WEST	2022	-	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8	159.8
870 CONIGLIO SOLAR	201NR0037		FANNIN	SOLAR	NORTH	2021	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7	125.7
871 CORAZON SOLAR PHASE I	151NR0044		WEBB	SOLAR	SOUTH	2021	202.6	202.6	202.6	202.6	202.6	202.6	202.6	202.6	202.6	202.6
872 CORAZON SOLAR PHASE II	221NR0257		WEBB	SOLAR	SOUTH	2022	-	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9	203.9
873 COTTONWOOD BAYOU	191NR0134		BRAZORIA	SOLAR	COASTAL	2022	-	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
874 CROWDED STAR SOLAR	201NR0241		JONES	SOLAR	WEST	2023	-	-	215.0	215.0	215.0	215.0	215.0	215.0	215.0	215.0
875 CROWDED STAR SOLAR II	221NR0274		JONES	SOLAR	WEST	2023	-	-	185.0	185.0	185.0	185.0	185.0	185.0	185.0	

Winter Fuel Types - ERCOT

Fuel type is based on the primary fuel. Capacity contribution of the wind resources is included at 43% for Coastal counties, 32% for Panhandle counties, and 19% for all other counties, while the solar capacity contribution is 7%. Private Use Network, and Hydro are included based on the three-year average historical capability for each Summer Season's 20 peak load hours. Non-Synchronous Tie resources import forecast is based on flows seen during Energy Emergency Alert (EEA) periods in the most recent winter of occurrence. Non-Synchronous Tie resources are categorized as Other. Mothballed resource capacity is excluded except for Available Mothball Capacity based on a Seasonal Availability Schedule or Owner's reported Return Probability. Private Use Network generator capacity is categorized as gas.

In MW

Fuel_Type	Capacity_Pct	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
Biomass	100%	64	64	64	64	64	64	64	64	64	64
Coal	100%	13,630	13,630	13,630	13,630	13,630	13,630	13,630	13,630	13,630	13,630
Gas	100%	56,102	56,075	56,070	56,025	55,985	55,770	55,770	55,765	55,765	55,765
Nuclear	100%	5,153	5,153	5,153	5,153	5,153	5,153	5,153	5,153	5,153	5,153
Other	69%	838	838	838	838	838	838	838	838	838	838
Hydro	78%	436	436	436	436	436	436	436	436	436	436
Wind-C	43%	2,127	2,213	2,309	2,309	2,309	2,309	2,309	2,309	2,309	2,309
Wind-P	32%	1,411	1,465	1,513	1,513	1,513	1,513	1,513	1,513	1,513	1,513
Wind-O	19%	4,794	5,297	5,468	5,468	5,468	5,468	5,468	5,468	5,468	5,468
Solar	7%	727	1,356	1,523	1,523	1,523	1,523	1,523	1,523	1,523	1,523
Storage	0%	-	-	-	-	-	-	-	-	-	-
Total		85,281	86,527	87,004	86,959	86,919	86,704	86,704	86,699	86,699	86,699

In Percentages

Fuel_Type	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
Biomass	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Coal	16.0%	15.8%	15.7%	15.7%	15.7%	15.7%	15.7%	15.7%	15.7%	15.7%
Gas	65.8%	64.8%	64.4%	64.4%	64.4%	64.3%	64.3%	64.3%	64.3%	64.3%
Nuclear	6.0%	6.0%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%
Other	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Hydro	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
Wind-C	2.5%	2.6%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%	2.7%
Wind-P	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%	1.7%
Wind-O	5.6%	6.1%	6.3%	6.3%	6.3%	6.3%	6.3%	6.3%	6.3%	6.3%
Solar	0.9%	1.6%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%
Storage	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Capacity of Proposed Generation Resources Based on Interconnection Milestone Status

Planned Resource Category	Cumulative Summer Capacity Contribution (in MW) of Resources Available by June 1 of the Reporting Year				
	2021	2022	2023	2024	2025
Synchronized Planned Projects	3,409	3,409	3,409	3,409	3,409
Planning Guide 6.9 Criteria plus completed Full Interconnect Study	5,614	12,400	12,658	12,658	12,658
Meets Planning Guide Sec. 6.9 Criteria (CDR plus TSP Financial Security Posted and Notice to Proceed)	5,614	12,577	12,836	12,836	12,836
CDR Eligible (signed IA, air permits, proof of adequate water supply)	5,620	16,557	18,167	18,931	18,931
Signed Interconnection Agreement with the TSP	6,152	17,191	18,801	19,565	19,565
Full Interconnect Study Requested	6,358	27,289	52,773	59,250	59,738

Notes:

(1) Resource categories are listed by highest to lowest likelihood that the resource capacity will be in commercial operation in the reported year. For example, resources in the "Synchronized Planned Projects" category are generating, or able to generate, power for the ERCOT grid, but have not completed all qualification testing to be approved for commercial operations by ERCOT. Conversely, resources in the "Full Interconnection Study Requested" category include projects that are generally in the development proposal stage and have a significant risk of interconnection request cancellation or project development delays.

(2) The data presented here is based upon the latest information provided to ERCOT by resource developers and can change without notice.

(3) Resource developers may execute an Interconnection Agreement with a TSP prior to completion of the Full Interconnection Study. This is most common with wind and solar projects.

(4) Wind and solar resource capacities reflect their estimated summer on-peak average values as determined by the methodologies in Protocol section 3.2.6.2.2.

(5) Battery storage projects are assumed to provide no seasonal sustained peak-hour capacity contributions, and are thus reported as zero MW.

(6) Synchronized Planned Projects are projects that ERCOT has approved to generate energy for the grid but have not passed all qualification testing necessary to be approved for participation in ERCOT market operations.

Unconfirmed Retirement Capacity

Unit Name	Cumulative Summer Capacity Contribution (in MW) of Unconfirmed Retirements Not Available as of June 1 of the Reporting Year						
	2021	2022	2023	2024	2025	2026	2027
DECKER CREEK CTG 1	315	315	315	315	315	315	315
DECKER CREEK CTG 2	0	415	415	415	415	415	415
COLETO CREEK *	0	0	0	0	0	0	655
TOTAL	315	730	730	730	730	730	1,385
Reserve Margin including Unconfirmed Retirement Capacity	15.5%	27.3%	27.2%	26.6%	25.4%	24.0%	22.9%
Reserve Margin Excluding Unconfirmed Retirement Capacity	15.1%	26.4%	26.3%	25.7%	24.5%	23.1%	21.2%

Notes:

(1) An "Unconfirmed Retirement" is defined as a generation unit for which a public announcement of the intent to permanently shut the unit down has been released, but a Notice of Suspension of Operations for the unit has not been received by ERCOT.

(2) The criteria for listing a unit as an Unconfirmed Retirement include the following:

- a. A specific retirement date is cited in the announcement, or other timing information is given that indicates the unit will be unavailable as of June 1 of a CDR Reporting Year.
- b. The announcement, with follow-up inquiry by ERCOT, does not indicate that retirement timing is highly speculative.

* Vistra notified the U.S. Environmental Protection Agency on November 20, 2020 that Coleto Creek's Primary Ash Pond will be closed to meet requirements of EPA's coal combustion residual (CCR) rule, and that boiler operations will cease no later than July 17, 2027. The notification is available on Vistra's public website, <https://www.luminant.com/ccr/>.

Capacity, Demand and Reserves, Summer 2026 Through Winter 2030/2031

The summer and winter capacity summaries below show the reserve margin impact of not adding any new resources during the latter half of the CDR forecast period. Since project developers typically submit interconnection requests no more than two to four years before the facility is expected to enter commercial operations, reserve margins reported beyond this window always show a declining trend if there is positive peak demand growth.

Summer					
Load Forecast, MW:	2026	2027	2028	2029	2030
Summer Peak Demand (based on normal weather)	82,838	83,616	84,362	85,095	85,820
plus: Energy Efficiency Program Savings Forecast	3,449	3,781	4,037	4,382	4,651
Total Summer Peak Demand (before Reductions from Energy Efficiency Programs)	86,288	87,397	88,399	89,477	90,472
less: Rooftop PV Forecast	-484	-540	-580	-613	-642
less: Load Resources providing Responsive Reserves	-898	-898	-898	-898	-898
less: Load Resources providing Non-Spinning Reserves	0	0	0	0	0
less: Emergency Response Service (10- and 30-min ramp products)	-811	-811	-811	-811	-811
less: TDSP Standard Offer Load Management Programs	-262	-262	-262	-262	-262
less: Energy Efficiency Program Savings Forecast	-3,449	-3,781	-4,037	-4,382	-4,651
Firm Peak Load, MW	80,384	81,105	81,811	82,511	83,208

Resources, MW:	2026	2027	2028	2029	2030
Installed Capacity, Thermal/Hydro	64,096	64,096	64,096	64,096	64,096
Switchable Capacity, MW	3,490	3,490	3,490	3,490	3,490
less: Switchable Capacity Unavailable to ERCOT, MW	(542)	(542)	(542)	(542)	(542)
Available Mothballed Capacity, MW	470	470	470	470	470
Capacity from Private Use Networks	2,867	2,867	2,862	2,862	2,862
Coastal Wind, Peak Average Capacity Contribution (61% of installed capacity)	2,188	2,188	2,188	2,188	2,188
Panhandle Wind, Peak Average Capacity Contribution (29% of installed capacity)	1,279	1,279	1,279	1,279	1,279
Other Wind, Peak Average Capacity Contribution (19% of installed capacity)	3,251	3,251	3,251	3,251	3,251
Solar Utility-Scale, Peak Average Capacity Contribution (80% of installed capacity)	3,069	3,069	3,069	3,069	3,069
Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
RMR Capacity to be under Contract	0	0	0	0	0
Capacity Pending Retirement, MW	-235	-235	-235	-235	-235
Operational Generation Capacity, MW	79,932	79,932	79,927	79,927	79,927
Non-Synchronous Ties, Capacity (Based on average net import contribution during summer 2019 EEA events)	850	850	850	850	850
Planned Resources (not wind, solar or storage) with Signed IA, Air Permits and Adequate Water Supplies	1,199	1,199	1,199	1,199	1,199
Planned Coastal Wind with Signed IA, Peak Average Capacity Contribution (61% of installed capacity)	1,088	1,088	1,088	1,088	1,088
Planned Panhandle Wind with Signed IA, Peak Average Capacity Contribution (29% of installed capacity)	93	93	93	93	93
Planned Other Wind with Signed IA, Peak Average Capacity Contribution (19% of installed capacity)	2,217	2,217	2,217	2,217	2,217
Planned Solar Utility-Scale, Peak Average Capacity Contribution (80% of installed capacity)	14,333	14,333	14,333	14,333	14,333
Planned Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
Total Capacity, MW	99,713	99,713	99,708	99,708	99,708

Reserve Margin	24.0%	22.9%	21.9%	20.8%	19.8%
(Total Resources - Firm Load Forecast) / Firm Load Forecast					

Winter					
Load Forecast, MW:	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
Winter Peak Demand (based on normal weather)	70,244	71,503	72,742	73,956	75,156
plus: Energy Efficiency Program Savings Forecast	3,449	3,781	4,037	4,382	4,651
Total Winter Peak Demand (before Reductions from Energy Efficiency Programs)	73,694	75,285	76,780	78,338	79,808
less: Rooftop PV Forecast	0	0	0	0	0
less: Load Resources providing Responsive Reserves	-1,570	-1,570	-1,570	-1,570	-1,570
less: Load Resources providing Non-Spinning Reserves	0	0	0	0	0
less: Emergency Response Service (10- and 30-min ramp products)	-1,162	-1,162	-1,162	-1,162	-1,162
less: TDSP Standard Offer Load Management Programs	0	0	0	0	0
less: Energy Efficiency Program Savings Forecast	-3,449	-3,781	-4,037	-4,382	-4,651
Firm Peak Load, MW	67,512	68,771	70,010	71,224	72,424

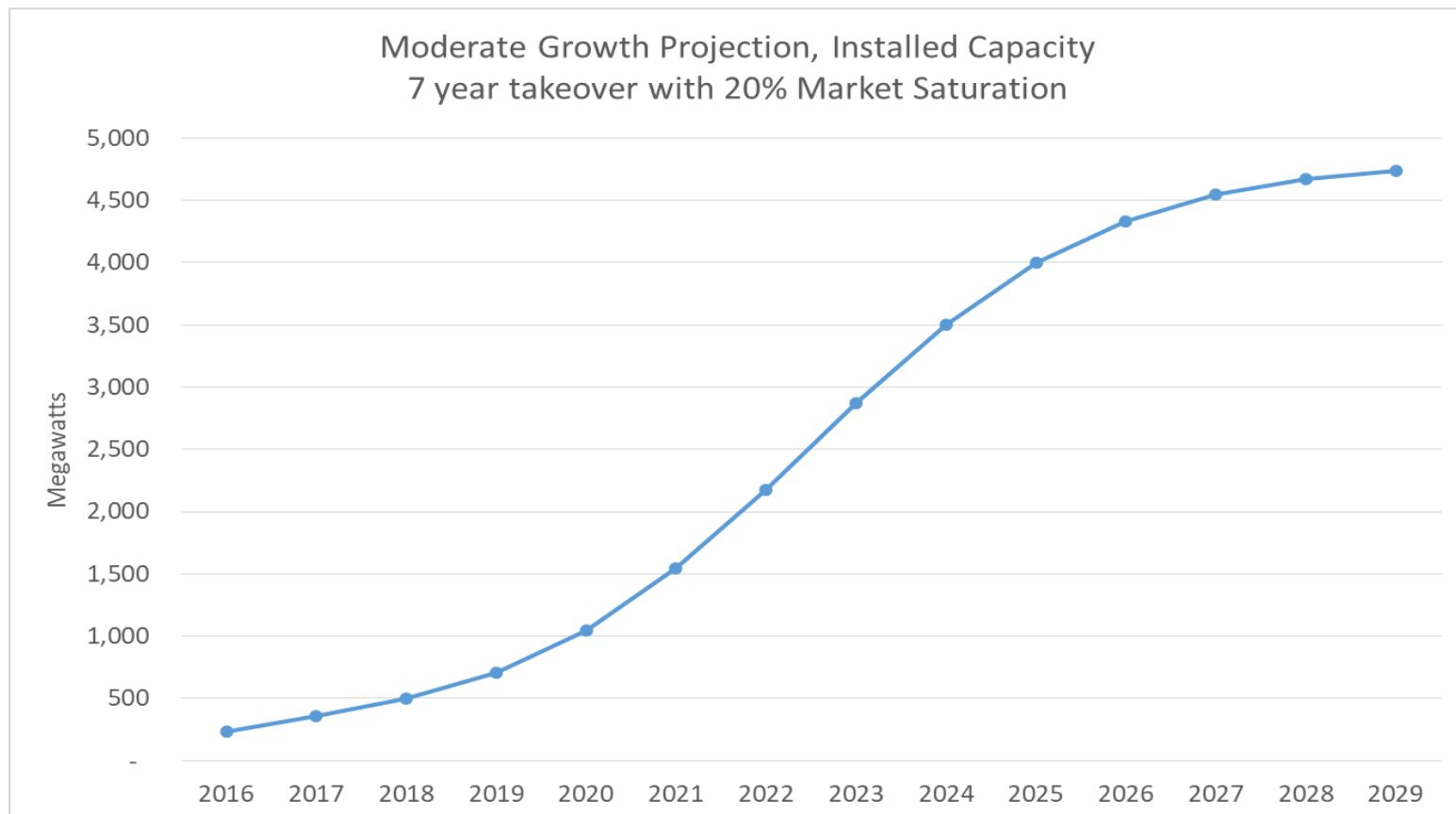
Resources, MW:	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
Installed Capacity, Thermal/Hydro	67,545	67,545	67,545	67,545	67,545
Switchable Generation Resource Capacity, MW	3,710	3,710	3,710	3,710	3,710
less: Switchable Capacity Unavailable to ERCOT	(568)	(568)	(568)	(568)	(568)
Available Mothballed Capacity	0	0	0	0	0
Capacity from Private Use Networks	3,162	3,162	3,157	3,157	3,157
Coastal Wind, Peak Average Capacity Contribution (43% of installed capacity)	1,542	1,542	1,542	1,542	1,542
Panhandle Wind, Peak Average Capacity Contribution (32% of installed capacity)	1,411	1,411	1,411	1,411	1,411
Other Wind, Peak Average Capacity Contribution (19% of installed capacity)	3,251	3,251	3,251	3,251	3,251
Solar Utility-Scale, Peak Average Capacity Contribution (7% of installed capacity)	269	269	269	269	269
Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
RMR Capacity to be under Contract	0	0	0	0	0
Capacity Pending Retirement, MW	-235	-235	-235	-235	-235
Operational Generation Capacity, MW	80,087	80,087	80,082	80,082	80,082
Non-Synchronous Ties, Capacity (Based on average net import contribution during winter 2014 EEA events)	838	838	838	838	838
Planned Resources (not wind, solar or storage) with Signed IA, Air Permits and Adequate Water Supplies	1,199	1,199	1,199	1,199	1,199
Planned Coastal Wind with Signed IA, Peak Average Capacity Contribution (43% of installed capacity)	767	767	767	767	767
Planned Panhandle Wind with Signed IA, Peak Average Capacity Contribution (32% of installed capacity)	103	103	103	103	103
Planned Other Wind with Signed IA, Peak Average Capacity Contribution (19% of installed capacity)	2,217	2,217	2,217	2,217	2,217
Planned Solar Utility-Scale, Peak Average Capacity Contribution (7% of installed capacity)	1,254	1,254	1,254	1,254	1,254
Planned Storage, Peak Average Capacity Contribution (0% of installed capacity)	0	0	0	0	0
Total Capacity, MW	86,464	86,464	86,459	86,459	86,459

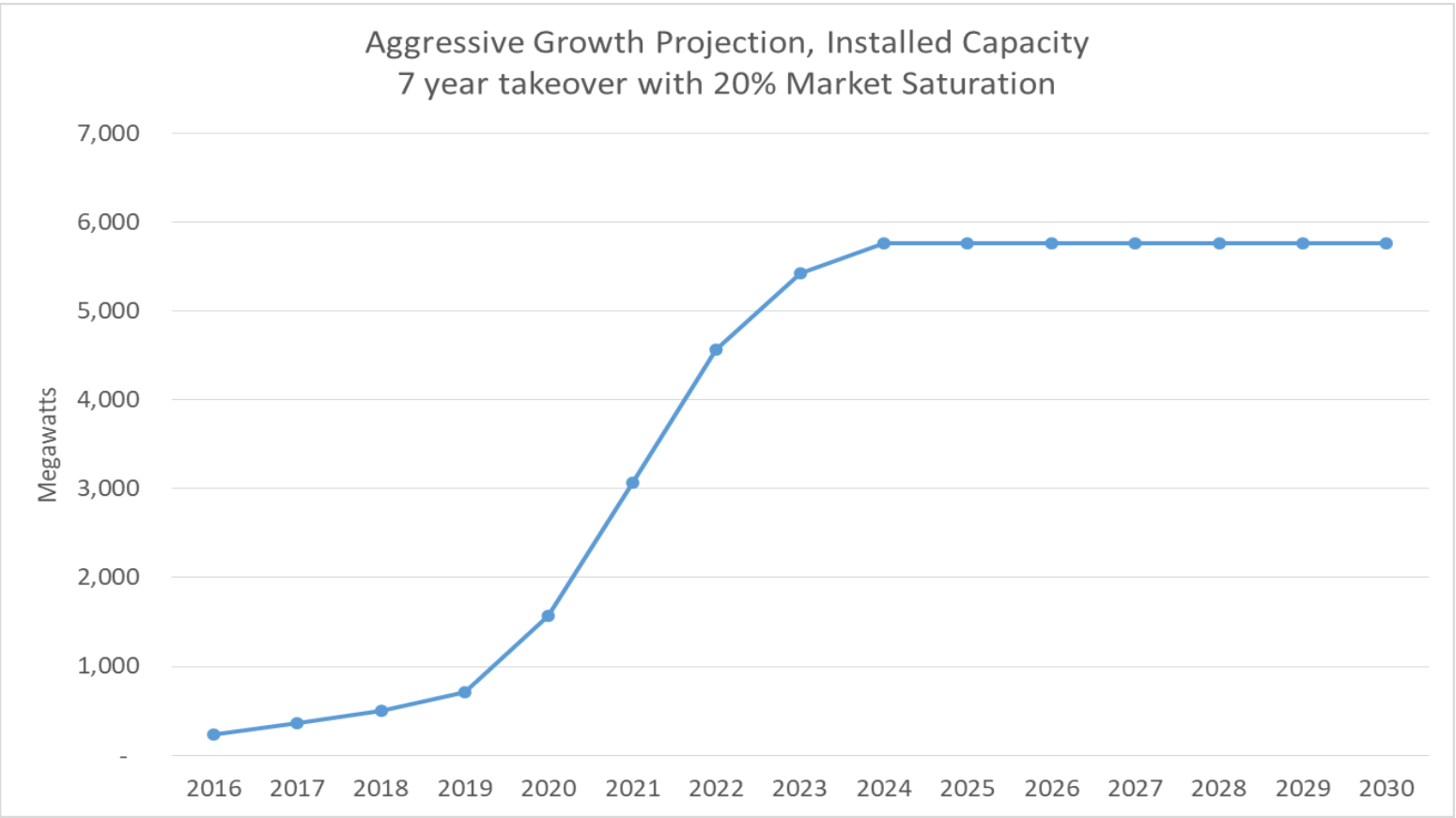
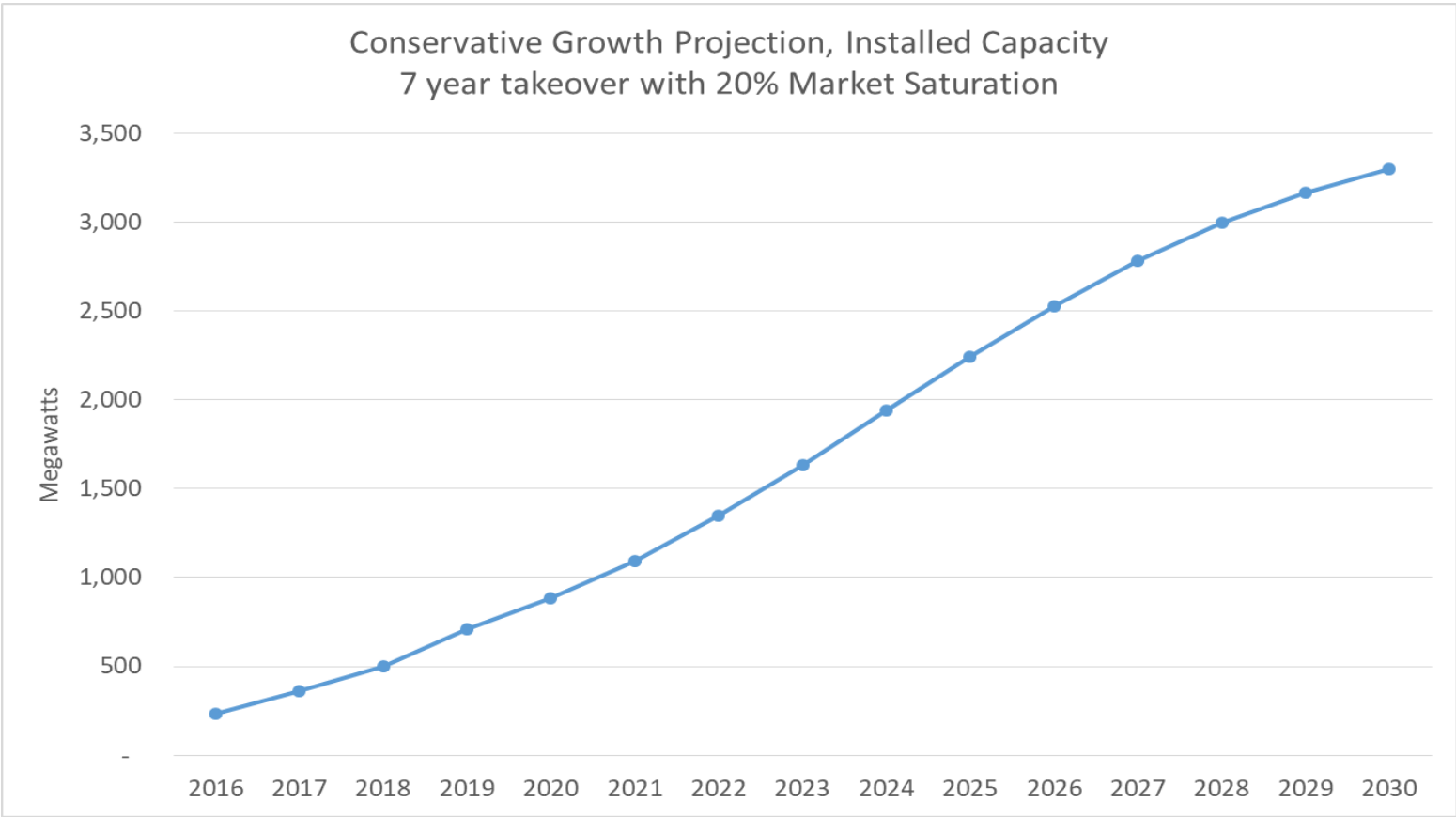
Reserve Margin	28.1%	25.7%	23.5%	21.4%	19.4%
(Total Resources - Firm Load Forecast) / Firm Load Forecast					

Rooftop Solar Photovoltaic Capacity Projections, 2020-2029

The charts below show three scenarios -- moderate, aggressive, and conservative -- for the long-term installed capacity growth of solar rooftop PV systems in the ERCOT Region. ERCOT developed the forecasts using a logistic growth or "S-curve" model of the type that is frequently used for technology diffusion forecasting. The model and its initial parameters were presented to stakeholders at the Supply Analysis Working Group (SAWG) meeting on April 12, 2019. The charts represent the final forecasts based on parameter refinements agreed to during SAWG meetings in late 2019 and early 2020. Note that these scenario forecasts are independent of the rooftop solar PV forecast incorporated into the new long term load forecast, and are not used in the reserve margin calculations. Also note the following:

- The Takeover Time referenced in the charts is a model parameter that specifies the amount of time that the rooftop solar PV systems are in the accelerating growth stage.
- The Market Saturation Rate is another model parameter that represents the maximum expected penetration based on an upper limit once the market becomes mature. There are other model parameters that are used to refine the shape of the logistic curve.
- The upper limit for installed capacity (total market potential) is based on an ERCOT metropolitan solar PV rooftop potentials study conducted by AWS Truepower, along with ERCOT assumptions regarding market potential for non-metro areas. The total market potential is estimated at 23,041 MW.
- Additional information on forecast development can be found using the following links to SAWG meeting webpages and presentation files:
<http://www.ercot.com/calendar/2019/4/12/172702-SAWG>
http://www.ercot.com/content/wcm/key_documents_lists/190770/SAWG__Meeting_Solar_PV_Discussion_10-31-2019.pptx
http://www.ercot.com/content/wcm/key_documents_lists/172749/SAWG__Meeting_12-13-2019_Solar_PV_Forecast_Discussion.pptx
http://www.ercot.com/content/wcm/key_documents_lists/195745/SAWG_April_2020_Solar_PV_Growth_Projection_Discussion.pptx





Fossil Fuel Settlement Only Distributed Generator (SODG) Capacities

The following is a list of operating fossil fuel Settlement Only Distribution Generators (SODGs) being provided for informational purposes. (The reported capacities are not included in the reserve margin calculations.) As of 11/23/20, there are 491.3 MW of fossil fuel SODG capacity (272.0 MW fired by diesel fuel and 219.3.0 MW by natural gas). These resources have not been included in past CDR reports due to the difficulty in determining their capacity contributions during peak load periods, and because many are intended as emergency standby generators and are not available to ERCOT for dispatch when needed to address capacity scarcity conditions. Another complication is that such standby generators may be used to reduce on-site loads in order to participate in Demand Response programs such as "4 Coincident Peak" (4CP) and Emergency Response Service (ERS). As a result, historical load reduction impacts would be accounted for in the peak demand forecast, while the capacity of SODGs participating in ERS would already be accounted for in the CDR's ERS line items.

The formal incorporation of fossil-fueled SODGs into future CDR reports has been a discussion topic at Supply Analysis Working Group meetings. Since SODG capacity accounting is not currently addressed in the ERCOT Nodal Protocols, a Nodal Protocol Revision Request (NPRR) is needed to address capacity double-counting, peak average capacity contributions, and other Distribution Generator (DG) accounting issues. ERCOT plans to submit an NPRR during 2021.

UNIT NAME	UNIT CODE	COUNTY	FUEL	ZONE	IN-SERVICE YEAR	MW CAPACITY
DGS 5 POINTS	DG_ABEC_1UNIT	TAYLOR	DIESEL	WEST	2014	9.8
DGS PALO PINTO	MNWLL_1UNIT	PALO PINTO	DIESEL	NORTH	2013	9.8
DGSP2 BIGCAT	ABEC2_3UNIT	TAYLOR	DIESEL	WEST	2015	9.8
DGSP2 PLAZA	ABEC_2UNIT	TAYLOR	DIESEL	WEST	2014	9.8
GCWA IPS	INTRCITY_8UNITS	GALVESTON	DIESEL	HOUSTON	2014	5.0
GCWAMUNI	GCWAMUNI_4UNITS	GALVESTON	DIESEL	HOUSTON	2014	2.5
HARRIS COUNTY MUD #36	WF_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.5
HARRIS COUNTY MUD 536	KT_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.5
HARRIS COUNTY WCID 109	BA_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.3
HIGHGATE BIG SPRING	HISPRING_IC	HOWARD	DIESEL	WEST	2018	9.1
HIGHGATE COLORADO CITY	HIGHCOL_IC	MITCHELL	DIESEL	WEST	2018	9.1
HIGHGATE SWEETWATER	HIWATER_IC	NOLAN	DIESEL	WEST	2018	9.1
JRABTUD	JKRBT_JRB	HARRIS	DIESEL	HOUSTON	2018	1.1
LANGHAM CREEK	ADK_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.5
NORTHAMPTON MUD	KDL_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.3
OAKBEND MEDICAL CENTER	READNG_1UNIT	HARRIS	DIESEL	HOUSTON	2017	1.6
POWER DEPOT - ADDICKS	WO_15UNITS	HARRIS	DIESEL	HOUSTON	2013	9.4
POWER DEPOT - ANDREWS	ANDNR_15UNITS	ANDREWS	DIESEL	WEST	2013	9.4
POWER DEPOT - BAKKE	BAKKE_15UNITS	ANDREWS	DIESEL	WEST	2013	9.4
POWER DEPOT - CITRUS CITY	CITRUSCY_15UNITS	HIDALGO	DIESEL	SOUTH	2013	9.4
POWER DEPOT - E HARRISON	E_HARRIS_15UNITS	CAMERON	DIESEL	COASTAL	2013	9.4
POWER DEPOT - FRANKEL CITY	FKLCY_15UNITS	ANDREWS	DIESEL	WEST	2013	9.4
POWER DEPOT - GOLDSMITH	GSMTH_15UNITS	ECTOR	DIESEL	WEST	2013	9.4
POWER DEPOT - HAINE	HAINE_DR_15UNITS	CAMERON	DIESEL	COASTAL	2013	9.4
POWER DEPOT - HILMONT	ECTHM_15UNITS	ECTOR	DIESEL	WEST	2013	9.4
POWER DEPOT - KATY	FL_15UNITS	WALLER	DIESEL	HOUSTON	2013	9.4
POWER DEPOT - MCKEEVER	DGWAP_15UNITS	FORT BEND	DIESEL	HOUSTON	2013	9.4
POWER DEPOT - S. SANTA ROSA	S_SNROSA_15UNITS	CAMERON	DIESEL	COASTAL	2013	9.4
POWER DEPOT - SOUTHWICK	DGHOC_15UNITS	HARRIS	DIESEL	HOUSTON	2013	9.4
POWER DEPOT - TH WHARTON	DGTHW_15UNITS	HARRIS	DIESEL	HOUSTON	2013	9.4
POWER DEPOT - VILLA CAVASOS	VCAVASOS_15UNITS	CAMERON	DIESEL	COASTAL	2013	9.4
POWER DEPOT - WESTOVER	WOVER_15UNITS	ECTOR	DIESEL	WEST	2013	9.4
POWER DEPOT EL GATO	ELGATO_15UNITS	HIDALGO	DIESEL	SOUTH	2013	9.4
POWERSECURE NORBORD TEXAS	NOR1_NORBORD_1	NACOGDOCHES	DIESEL	NORTH	2019	5.0
POWERSECURE NORBORD TEXAS	NOR2_NORBORD_2	NACOGDOCHES	DIESEL	NORTH	2019	2.5
REMINGTON MUD 001	CYFAIR_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.5
SATSUMA	SATSUM_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.6
SILVER EAGLE	TBFY_U1	HARRIS	DIESEL	HOUSTON	2019	1.5
TERRANOVA WEST MUD	LU_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.3
TOTAL ENERGY SOLUTIONS 1	TES1_DGDROUPA	BRAZORIA	DIESEL	COASTAL	2015	7.2
TOTAL ENERGY SOLUTIONS 2	TES2_DGGROUPB	BRAZORIA	DIESEL	COASTAL	2015	5.4
TPC POWER STATION	TPC_6UNITS	SMITH	DIESEL	NORTH	2015	9.9
WINDFERN FOREST UD	FR_1UNIT	HARRIS	DIESEL	HOUSTON	2017	0.5
BUC-EES STORE 003	BUC003_BRZIA003	BRAZORIA	GAS	COASTAL	2017	0.4
BUC-EES STORE 018	BUC018_WALLR018	WALLER	GAS	HOUSTON	2017	1.1
BUC-EES STORE 030	BUC030_WHRTN030	WHARTON	GAS	SOUTH	2017	0.8

BUC-EES STORE 033	BUC033_TXCTY033	GALVESTON	GAS	HOUSTON	2017	1.1
BUC-EES STORE 034	BUC034_BYTWN034	HARRIS	GAS	HOUSTON	2017	1.1
BUC-EES STORE 035	BUC035_TMNTN035	BELL	GAS	NORTH	2018	1.1
BUC-EES STORE 038	BUC038_RYSSW038	ROCKWALL	GAS	NORTH	2019	1.2
BUC-EES STORE 040	BUC040_KATY040	FORT BEND	GAS	HOUSTON	2017	1.1
BUC-EES STORE 044	BUC044_ANASE044	COLLIN	GAS	NORTH	2019	1.2
BUC-EES STORE 048	BUC048_ENSSO048	ELLIS	GAS	NORTH	2019	1.2
CITIZENS MEDICAL CENTER	CTZSMC_NVICTCTZ	VICTORIA	GAS	SOUTH	2020	2.8
CNP CYPRESS STATION	CNPMUD_WESFDMUD	HARRIS	GAS	HOUSTON	2020	0.8
HEB CC BAKERY	HEBCCB_HWY9CCB	NUECES	GAS	COASTAL	2019	3.2
HEB SA DC	CHEBDC_DG_L2_1	BEXAR	GAS	SOUTH	2020	6.4
HEB SNACK PLANT	HEBSP_TANNERSP	HARRIS	GAS	HOUSTON	2019	1.6
HEB STORE 016	HEB016_CRWLY016	JOHNSON	GAS	NORTH	2020	0.8
HEB STORE 026	CHEB026_DG_Q5_1	COMAL	GAS	SOUTH	2019	1.2
HEB STORE 038	HEB038_PHARR038	HIDALGO	GAS	SOUTH	2018	1.2
HEB STORE 054	HEB054_HALL054	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 069	HEB069_AIRLN069	NUECES	GAS	COASTAL	2017	1.6
HEB STORE 070	HEB070_MCMRY070	TAYLOR	GAS	WEST	2018	1.2
HEB STORE 084	CHEB084_DG_J0_1	BEXAR	GAS	SOUTH	2020	1.2
HEB STORE 085	CHEB085_DG_P5_1	BEXAR	GAS	SOUTH	2019	1.6
HEB STORE 092	HEB092_LEALN092	VICTORIA	GAS	SOUTH	2018	1.6
HEB STORE 095	HEB095_MILOA095	WEBB	GAS	SOUTH	2018	1.6
HEB STORE 109	HEB109_ECHO109	HARRIS	GAS	HOUSTON	2018	1.1
HEB STORE 110	HEB110_SIEN110	FORT BEND	GAS	HOUSTON	2017	1.1
HEB STORE 136	HEB136_EHRSN136	CAMERON	GAS	COASTAL	2018	0.8
HEB STORE 139	HEB139_HOLLY139	NUECES	GAS	COASTAL	2017	0.8
HEB STORE 172	HEB172_SEDNB172	HIDALGO	GAS	SOUTH	2020	0.8
HEB STORE 182	HEB182_TMSTH182	BELL	GAS	NORTH	2018	1.2
HEB STORE 20	HEB020_CYFR020	HARRIS	GAS	HOUSTON	2017	1.5
HEB STORE 210	HEB210_SOUSD210	NUECES	GAS	COASTAL	2017	0.8
HEB STORE 212	HEB212_PLKAV212	HIDALGO	GAS	SOUTH	2018	0.8
HEB STORE 223	HEB223_STCSW223	JIM WELLS	GAS	SOUTH	2018	1.2
HEB STORE 231	HEB231_WESLA231	HIDALGO	GAS	SOUTH	2018	0.8
HEB STORE 236	HEB236_RDRSE236	TRAVIS	GAS	SOUTH	2018	0.8
HEB STORE 255	HEB255_ZACAT255	WEBB	GAS	SOUTH	2018	1.2
HEB STORE 270	HEB270_ARLN270	NUECES	GAS	COASTAL	2017	0.8
HEB STORE 28	HEB028_LGCTY028	GALVESTON	GAS	HOUSTON	2017	1.1
HEB STORE 291	HEB291_WHRLG291	CAMERON	GAS	COASTAL	2018	1.2
HEB STORE 292	HEB292_BYCTY292	MATAGORDA	GAS	COASTAL	2016	1.1
HEB STORE 334	HEB334_WMCAL334	HIDALGO	GAS	SOUTH	2018	1.2
HEB STORE 373	HEB373_RNDRK373	WILLIAMSON	GAS	SOUTH	2018	0.8
HEB STORE 381	HEB381_HKHTS381	BELL	GAS	NORTH	2018	1.2
HEB STORE 383	HEB383_CAUSE383	CAMERON	GAS	COASTAL	2020	0.8
HEB STORE 401	HEB401_KNGVL401	KLEBERG	GAS	COASTAL	2018	0.8
HEB STORE 423	HEB423_WNTHW423	MCLENNAN	GAS	NORTH	2018	0.8
HEB STORE 426	HEB426_WXNTH426	ELLIS	GAS	NORTH	2018	1.2
HEB STORE 431	HEB431_MCOLL431	HIDALGO	GAS	SOUTH	2018	1.2
HEB STORE 434	HEB434_BRKHL434	CALHOUN	GAS	COASTAL	2020	0.8
HEB STORE 444	CHEB444_DG_V2_1	BEXAR	GAS	SOUTH	2020	1.2
HEB STORE 448	HEB448_PLMVW448	HIDALGO	GAS	SOUTH	2020	0.8
HEB STORE 449	HEB449_DELMA449	WEBB	GAS	SOUTH	2018	0.8
HEB STORE 462	HEB462_ARCIA462	NUECES	GAS	COASTAL	2017	1.2
HEB STORE 473	HEB473_CARDF473	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 474	HEB474_DWLT474	FORT BEND	GAS	HOUSTON	2017	1.1
HEB STORE 475	HEB475_ELGIN475	BASTROP	GAS	SOUTH	2020	0.8
HEB STORE 479	HEB479_PFLGV479	TRAVIS	GAS	SOUTH	2018	0.8
HEB STORE 485	HEB485_WESLA485	HIDALGO	GAS	SOUTH	2020	0.8
HEB STORE 488	HEB488_PTLND488	SAN PATRICIO	GAS	COASTAL	2018	0.8
HEB STORE 491	HEB491_SNFLP491	HARRIS	GAS	HOUSTON	2018	1.1
HEB STORE 492	HEB492_FRANZ492	HARRIS	GAS	HOUSTON	2016	1.1
HEB STORE 495	HEB495_RDRSE495	WILLIAMSON	GAS	SOUTH	2018	0.8
HEB STORE 497	HEB497_MASRD497	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 498	HEB498_HUMBL498	HARRIS	GAS	HOUSTON	2018	1.1
HEB STORE 540	HEB540_GGATE540	HARRIS	GAS	HOUSTON	2018	1.1
HEB STORE 541	HEB541_ROARK541	HARRIS	GAS	HOUSTON	2016	1.1
HEB STORE 545	HEB545_FARON545	TARRANT	GAS	NORTH	2019	1.2
HEB STORE 546	HEB546_RENSW546	COLLIN	GAS	NORTH	2018	1.2

HEB STORE 551	HEB551_WSTCS551	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 552	HEB552_GAVSW552	DALLAS	GAS	NORTH	2019	1.2
HEB STORE 553	HEB553_GRTIE553	HARRIS	GAS	HOUSTON	2018	0.8
HEB STORE 554	HEB554_NVICT554	VICTORIA	GAS	SOUTH	2018	1.2
HEB STORE 558	HEB558_FRDSW558	GALVESTON	GAS	HOUSTON	2018	1.1
HEB STORE 559	HEB559_BLUER559	HARRIS	GAS	HOUSTON	2019	0.8
HEB STORE 562	HEB562_FULTN562	ARANSAS	GAS	COASTAL	2018	0.8
HEB STORE 563	HEB563_CRABB563	FORT BEND	GAS	HOUSTON	2019	1.2
HEB STORE 564	HEB564_RAFRD564	MONTGOMERY	GAS	HOUSTON	2019	0.8
HEB STORE 57	HEB057_LAGUN057	NUECES	GAS	COASTAL	2017	1.2
HEB STORE 574	HEB574_TOMBA574	HARRIS	GAS	HOUSTON	2019	1.2
HEB STORE 575	HEB575_BRKER575	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 576	HEB576_KLEIN576	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 581	HEB581_KLELM581	BELL	GAS	NORTH	2018	1.2
HEB STORE 586	HEB586_STNIO586	WEBB	GAS	SOUTH	2019	1.2
HEB STORE 591	HEB591_RRNES591	WILLIAMSON	GAS	SOUTH	2018	1.6
HEB STORE 593	HEB593_TLRWT593	WILLIAMSON	GAS	SOUTH	2020	0.8
HEB STORE 596	HEB596_FLWEN596	FORT BEND	GAS	HOUSTON	2018	1.1
HEB STORE 599	HEB599_KIRBY599	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 610	HEB610_LOU610	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 614	HEB614_KING614	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 615	HEB615_KATY615	FORT BEND	GAS	HOUSTON	2018	1.1
HEB STORE 616	HEB616_BAML616	HARRIS	GAS	HOUSTON	2017	0.8
HEB STORE 627	HEB627_IMPRL627	FORT BEND	GAS	HOUSTON	2017	1.1
HEB STORE 63	HEB063_SOWIK063	BRAZORIA	GAS	COASTAL	2016	1.5
HEB STORE 640	HEB640_UVLDE640	HARRIS	GAS	HOUSTON	2018	0.8
HEB STORE 642	HEB642_HAACR642	HIDALGO	GAS	SOUTH	2018	1.2
HEB STORE 645	HEB645_CDRBY645	HARRIS	GAS	HOUSTON	2017	0.8
HEB STORE 648	HEB648_BERRY648	HARRIS	GAS	HOUSTON	2018	1.1
HEB STORE 649	HEB649_LTTYK649	HARRIS	GAS	HOUSTON	2018	0.8
HEB STORE 656	HEB656_HOKLE656	HARRIS	GAS	HOUSTON	2016	1.1
HEB STORE 658	CHEB658_DG_V5_1	BEXAR	GAS	SOUTH	2019	1.2
HEB STORE 667	HEB667_FNDRN667	HARRIS	GAS	HOUSTON	2018	0.8
HEB STORE 668	HEB668_COVEE668	CORYELL	GAS	NORTH	2018	1.2
HEB STORE 672	HEB672_WSOTH672	MCLENNAN	GAS	NORTH	2018	1.2
HEB STORE 674	HEB674_PALMH674	HIDALGO	GAS	SOUTH	2020	0.8
HEB STORE 675	HEB675_MARCK675	BRAZORIA	GAS	COASTAL	2018	1.1
HEB STORE 686	HEB686_KUYKL686	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 687	HEB687_ULRIC687	HARRIS	GAS	HOUSTON	2016	1.1
HEB STORE 697	HEB697_SOUSH697	GALVESTON	GAS	HOUSTON	2017	1.1
HEB STORE 698	HEB698_KLUGE698	HARRIS	GAS	HOUSTON	2017	1.1
HEB STORE 705	HEB705_SPRWD705	MONTGOMERY	GAS	HOUSTON	2017	1.1
HEB STORE 707	HEB707_LKJCK707	BRAZORIA	GAS	COASTAL	2018	1.1
HEB STORE 709	HEB709_FRYRD709	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 711	HEB711_ODNTH711	ECTOR	GAS	WEST	2020	0.8
HEB STORE 713	HEB713_CLELK713	HARRIS	GAS	HOUSTON	2020	0.8
HEB STORE 715	HEB715_FRMNT715	HARRIS	GAS	HOUSTON	2020	0.8
HEB STORE 717	HEB717_MDESA717	MIDLAND	GAS	WEST	2020	1.2
HEB STORE 720	HEB720_KNGWD720	HARRIS	GAS	HOUSTON	2018	1.1
HEB STORE 721	HEB721_KLNSO721	BELL	GAS	NORTH	2018	1.2
HEB STORE 722	HEB722_PINHU722	MONTGOMERY	GAS	HOUSTON	2017	1.1
HEB STORE 724	HEB724_OBRN724	FORT BEND	GAS	HOUSTON	2017	1.1
HEB STORE 725	HEB725_KLEIN725	HARRIS	GAS	HOUSTON	2020	0.8
HEB STORE 727	HEB727_CRBRR727	FORT BEND	GAS	HOUSTON	2018	1.2
HEB STORE 731	HEB731_WSFLD731	HARRIS	GAS	HOUSTON	2017	0.8
HEB STORE 732	CHEB732_DG_SK_1	BEXAR	GAS	SOUTH	2020	1.2
HEB STORE 734	HEB734_BLFFS734	TOM GREEN	GAS	WEST	2017	1.2
HEB STORE 736	HEB736_FLWEN736	FORT BEND	GAS	HOUSTON	2018	1.2
HEB STORE 737	HEB737_WHTOK737	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 738	HEB738_SHPTN738	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 741	HEB741_MTBEL741	CHAMBERS	GAS	HOUSTON	2018	0.8
HEB STORE 742	HEB742_HNYRT742	HARRIS	GAS	HOUSTON	2018	1.2
HEB STORE 745	HEB745_SHARP745	HARRIS	GAS	HOUSTON	2020	1.2
HEB STORE 747	HEB747_LKMNT747	DALLAS	GAS	NORTH	2020	0.8
HEB STORE 748	HEB748_LOUET748	HARRIS	GAS	HOUSTON	2018	0.8
HEB STORE 749	HEB749_FLEWE749	FORT BEND	GAS	HOUSTON	2020	1.2
HEB STORE 752	HEB752_LGVST752	PARKER	GAS	NORTH	2019	1.2

HEB STORE 753	HEB753_DRPRK753	HARRIS	GAS	HOUSTON	2018	0.8
HEB STORE 756	HEB756_BLGET756	HARRIS	GAS	HOUSTON	2020	1.2
HEB STORE 771	CHEB771_DG_V3_1	BEXAR	GAS	SOUTH	2020	1.2
HEB STORE 99	HEB099_KLEIN099	HARRIS	GAS	HOUSTON	2017	1.13
HOLLY HALL	HH2000_HOLMESH	HARRIS	GAS	HOUSTON	2017	1.2
LAKESIDE COUNTRY CLUB	LKSDECC_HAYESLCC	HARRIS	GAS	HOUSTON	2020	1.2
PANTHER PLANT	PAPL_DG1	UPTON	GAS	WEST	2017	8.28
PEPPERL FUCHS	PEPF01_WALLER01	WALLER	GAS	HOUSTON	2017	1.13
PLANET FORD I45	PFI45_PFORDI45	HARRIS	GAS	HOUSTON	2017	1.13
RELLIS CAMPUS	TAMURE_RELLISAM	BRAZOS	GAS	NORTH	2018	9.6
ROBERT MUELLER ENERGY CENT	RMEC_CT1	TRAVIS	GAS	SOUTH	2011	5.8
STANDARD MEAT	ST_MEAT_CKRHLSTM	DALLAS	GAS	NORTH	2019	1.2
TRADITION WOODWAY	TRDWDY_ULRICHTW	HARRIS	GAS	HOUSTON	2020	1.2
UTMB East Plant	UTMBEAST_CT1	GALVESTON	GAS	HOUSTON	2016	7.56
UTMB WEST PLANT	UTMBWEST_CT1	GALVESTON	GAS	HOUSTON	2017	5.4
WAL STORE 1040	WAL1040_GERT1040	HARRIS	GAS	HOUSTON	2019	1.2
WAL STORE 1103	WAL1103_BAM1103	HARRIS	GAS	HOUSTON	2019	1.2
WAL STORE 3226	WAL3226_KTY3226	HARRIS	GAS	HOUSTON	2019	1.2
WAL STORE 3510	WAL3510_PRL3510	BRAZORIA	GAS	COASTAL	2020	1.3
WAL STORE 4538	WAL4538_FRAN4538	HARRIS	GAS	HOUSTON	2019	1.2
WAL STORE 768	WAL768_FRAN768	HARRIS	GAS	HOUSTON	2019	1.2
RHODIA HOUSTON PLANT	DG_HG_2UNITS	HARRIS	GAS	HOUSTON	1970	8.2