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ERCOT System or otherwise warrant new studies, then ERCOT may require additional studies to be performed before the proposed Generation Resource is allowed to interconnect to the ERCOT System. The IE and TSP(s) shall develop a schedule for completing the additional studies. The TSP shall provide the FIS studies to ERCOT and the other TSPs through the confidential email list. If these additional studies show that the project would not meet the operational standards specified in the Protocols, this Planning Guide, the Operating Guides, or Other Binding Documents, ERCOT may require the IE to demonstrate its compliance with these standards as a condition for energization of the proposed Generation Resource.

- (4) If the IE increases the requested amount of capacity of the proposed Generation Resource by more than 20% of the amount requested in the screening study, ERCOT shall require the IE to submit a new GINR for the additional capacity or for the entire project. ERCOT may, at its discretion, require the IE to submit a new GINR for significant capacity decreases or capacity increases of less than 20%, particularly if other changes to the request are also made, such as changes to the in-service date. ERCOT's determination as to whether new studies are needed in no way affects the ongoing obligations of the IE and TSP to comply with North American Electric Reliability Corporation (NERC) Reliability Standards, Protocols, this Planning Guide and the Operating Guides.

(5) _____

5.5.1 Standard Generation Interconnection Agreement

- (1) If the Interconnecting Entity (IE) decides to proceed with the construction and completion of the proposed generation project and interconnection within the 180-day period following the completion of the Full Interconnection Study (FIS), it shall execute a Standard Generation Interconnection Agreement (SGIA) with its respective Transmission Service Provider (TSP) as a condition for obtaining transmission service, as required by P.U.C. SUBST. R. 25.195, Terms and Conditions for Transmission Service. The IE and the TSP shall use the SGIA. A template of the SGIA can be found on the ERCOT website.
- (2) Before an SGIA is signed, all studies included in the FIS scope must be completed, unless mutually agreed by the IE and the TSP. The IE and TSP must meet and maintain compliance with all North American Electric Reliability Corporation (NERC) Reliability Standards, Protocols, and the requirements of this Planning Guide and the Operating Guides concerning interconnection.
- (3) ERCOT does not participate in the IE's and TSP's negotiation of the SGIA.

5.5.4 Notification to ERCOT Concerning Certain Project Developments

The following notifications shall be provided to ERCOT at GINR@ercot.com:

Deleted: The IE shall notify ERCOT of the status of any applicable Texas Commission on Environmental Quality (TCEQ) air permits. The IE shall also notify ERCOT and the TSP of any relevant change in the status of any permit application, including issuance of the permit or delay in receiving the permit.

Deleted: The IE shall notify ERCOT when it has given the TSP Notice to proceed with the FIS

Deleted: The TSP must transmit a copy of the signed SGIA to ERCOT within ten Business Days of execution and to the Public Utility Commission of Texas (PUCT) within 30 days of execution.

Deleted: The IE should also provide ERCOT with the status of its air permits when it receives an air permit for its project, and should notify ERCOT when it gives the TSP the Notice to proceed.

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- (a) The IE shall notify ERCOT within ten Business Days of when it has given the TSP notice to proceed with the FIS.
- (b) The TSP must transmit a copy of the signed SGIA to ERCOT within ten Business Days of execution.
- (c) The TSP must transmit to ERCOT within a ten Business Days of execution a copy of any financially binding agreement between the IE and the TSP under which the interconnection for a Generation Resource will be constructed.
- (d) The TSP must transmit a written notice to ERCOT within ten Business Days after it receives both a notice to proceed with construction of the interconnection for the Generation Resource and the financial security sufficient to fund the interconnection facilities pursuant to either agreement addressed in (b) or (c) above.
- (e) A Municipally Owned Utility (MOU) or Electric Cooperative (EC) must transmit a letter from a duly authorized official to ERCOT confirming the Entity's intent to construct and operate a proposed Generation Resource and interconnect such Generation Resource to its own transmission system.

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Deleted: The IE has given the TSP Notice to proceed with construction of the project and has provided the TSP with the financial security sufficient to fund the interconnection facilities, or ¶ (b) The IE determines that it is not required to provide the TSP with financial security for the interconnection of the project

Comment [ym12]: Please note that PGRR026 also proposes revisions to this section

6.1 Steady-State Model Development

- (1) To adequately simulate steady-state system conditions, it is necessary to establish and maintain steady-state data and simulation ready study cases in accordance with the Steady State Working Group Procedure Manual. These case models, known as steady-state base cases, shall contain appropriate equipment characteristics and system data, and shall represent projected system conditions that provide a starting point for each required season and year.
 - (a) The Annual Planning Model base cases, which represent the annual peak load conditions, as prescribed in Protocol Section 3.10.2, Annual Planning Model, shall be developed annually, updated on a quarterly basis, and may be updated as needed on an interim basis. Each Annual Planning Model base case, quarterly updates, and interim updates shall be posted on the Market Information System (MIS) Secure Area and the Planning and Operations Information website to ensure availability of the most accurate steady-state base cases.
 - (b) Additional steady-state base cases, such as seasonal base cases, shall also be developed annually, updated on a quarterly basis, and may also be updated as needed on an interim basis. These derivative base cases, quarterly updates, and interim updates shall be posted on the Planning and Operations Information website to ensure availability of the most accurate steady-state base cases.
 - (c) Interim updates that are posted as described in paragraph (1)(a) and (1)(b) above shall be in the form of a Power System Simulator for Engineering (PSS/E) formatted incremental change file.

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- (d) All steady-state base cases and incremental change files on the MIS Secure Area and Planning and Operations Information website shall be available for use by Market Participants.
 - (e) The Steady State Working Group Procedure Manual describes each base case that is required to be built. The schedule for posting all steady-state base cases shall be made available on the MIS Secure Area.
- (2) Transmission Service Providers (TSPs) and ERCOT shall develop the steady-state base cases. The steady-state base cases are derived from the Network Operations Model to ensure consistency of key characteristics, including Ratings, impedance and connectivity for Transmission Facilities that are common between the Network Operations Model and each steady-state base case. Minor differences between the models will occur for several reasons. For example:
- (a) The Network Operations Model is converted from a “breaker, switch, and AC line segment” convention to an equivalent steady-state base case “bus and branch” convention. This conversion reduces the number of breakers/switches that may be included in the steady-state base case model and may combine buses separated by breakers/switches in the Network Operations Model.
 - (b) Additional detailed modeling may be added to the converted Network Operations Model for planning purposes.
 - (c) Future projects are added to the converted Network Operations Model that do not exist in the Network Operations Model past the model build date used to extract a snapshot from the Network Operations Model.
- (3) Using the Network Model Management System (NMMS), ERCOT and TSPs shall create steady state models that represent current and planned system conditions from the following data elements:
- (a) Each TSP, or its Designated Agent, shall provide its respective transmission network steady-state model data, including load data.
 - (b) ERCOT shall utilize the latest available Resource Entity and Private Use Network model data submitted to ERCOT by the Resource Entity and the Private Use Network owners through the Resource registration process for Resource Entities.
 - (c) ERCOT shall utilize proposed Generation Resource model data provided by the Interconnecting Entity (IE) during the generation interconnection process in accordance with Section 5, Generation Resource Interconnection or Change Request.
 - (d) ERCOT shall determine the operating state of Generation Resources (MW, MVAR) using a security-constrained economic dispatch tool.

Deleted: ERCOT shall utilize available complete model data for future Generation Resources once ERCOT receives a signed Standard Generation Interconnection Agreement (SGIA) or public, financially-binding agreement between the generator and TSP under which the proposed Facilities of Generation Resource would be constructed or a letter from a duly authorized official from the Municipally Owned Utility (MOU) or an Electric Cooperative (EC) confirming the Entity's intent to construct and operate the proposed Generation Resource

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- (e) ERCOT shall determine the import/export levels of asynchronous transmission interconnections based on historical data.

6.3 Process for Developing Short Circuit Cases

This Section describes the process for the development of the short circuit cases used for planning purposes. Section 6, Disturbance Monitoring and System Protection, of the Operating Guides describes other non-planning aspects relating to system protection and disturbance monitoring requirements.

- (a) ERCOT shall collect the short circuit data sets or data updates developed by each Transmission Service Provider (TSP) and shall compile and maintain the short circuit cases.
- (b) During the first quarter of each calendar year, ERCOT shall compile and distribute the Current Year (CY) short circuit case to the System Protection Working Group (SPWG).
- (c) During the second quarter of each calendar year, ERCOT shall compile and distribute the Future Year (FY) short circuit cases for years two through five to the SPWG.
- (d) The transmission and generation systems of each Facility owner in ERCOT shall be represented completely including positive and zero sequence data. Generation Resource data shall be provided by the Resource Entity.

(e) Each common bus within both the short circuit case and the corresponding steady-state load flow case shall have a matching bus name and matching bus number. Each additional bus added to the short circuit case as necessary to perform short circuit studies shall be assigned a name and bus number that does not conflict with pre-existing names and bus numbers used in the current set of load flow cases.

(f) The positive sequence impedance of Transmission Elements used in both the load flow and short circuit cases shall be the same.

(g) Zero sequence data shall include mutual impedance of multi-circuit transmission lines and of adjacent circuits within the same right-of-way, unless the TSP considers such impedance to be insignificant for studies made from this data.

Deleted: (e) New Generation Resources will be included in the short circuit cases once ERCOT receives either ¶
(i) A signed Standard Generation Interconnection Agreement (SGIA) or a public, financially-binding agreement between the generator and the TSP under which the proposed Generation Resource would be constructed, or ¶
(ii) A letter from a duly authorized official from the Municipally Owned Utility (MOU) or an Electric Cooperative (EC) confirming the Entity's intent to construct and operate the proposed Generation Resource ¶

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6.9 Addition of Proposed Generation Resources to the Planning Models

(1) ERCOT will include a proposed Generation Resource in the base cases created and maintained by the Steady State Working Group (SSWG), the System Protection Working Group (SPWG), and the Dynamics Working Group (DWG), once the Interconnecting Entity notifies ERCOT that it has received a Texas Commission on Environmental

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Quality (TCEQ)-approved air permit (if necessary) and demonstrates that it has obtained water rights sufficient for plant operation (if necessary), and ERCOT receives one of the following:

(a) A signed Standard Generation Interconnection Agreement (SGIA) from the Transmission Service Provider (TSP) and a written notice from the TSP that the Interconnecting Entity (IE) has provided:

- (i) a notice to proceed with the construction of the interconnection; and
- (ii) the financial security required to fund the interconnection facilities; or

(b) A public, financially binding agreement between the IE and the TSP under which the interconnection for the Generation Resource will be constructed along with:

- (i) a written notice from the TSP that the IE has provided notice to proceed with the construction of the interconnection; and
- (ii) the required financial security; or

(c) A letter from a duly authorized official from a Municipally Owned Utility (MOU) or Electric Cooperative (EC) confirming the Entity's intent to construct and operate a proposed Generation Resource and interconnect such Generation to its own transmission system.

(2) The IE shall provide to ERCOT the data necessary to model the Generation Resource in the base cases created and maintained by SSWG, SPWG, and the DWG, as directed by ERCOT.

(3) Once the IE has met these requirements, ERCOT will notify the SSWG, SPWG, and the DWG, and the proposed Generation Resource will be included in the base cases created and maintained by these working groups.

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(a) A signed Standard Generation Interconnection Agreement (SGIA) from the Transmission Service Provider (TSP) and one of the following ¶
 (i) a written notice from the TSP that the Interconnecting Entity (IE) has provided a notice to proceed with the construction of the interconnection and the financial security required to fund the interconnection facilities, or¶
 (ii) an affidavit from the IE to ERCOT confirming that a financially binding agreement to construct the Generation Resource (i.e. an engineering, procurement, and construction contract) has been executed ¶

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Comment [ym3]: Please note that PGRR022 also proposes revisions to this section.

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The total capacity estimate shall be determined based on the following equation ¶

$$TOTCAP_{s,i} = INSTCAP_{s,i} + PUNCAP_{s,i} + WINDCAP_{s,i} + RMRCAP_{s,i} + DCTIECAP_{s,i} + SWITCHCAP_{s,i} + MOTHCAP_{s,i} + PLANNON_{s,i} + PLANWIND_{s,i} - UNSWITCH_{s,i} - RETCAP_{s,i} ¶$$

¶
 The above variables are defined as follows ¶
 Variable

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NPRR Number	489	NPRR Title	Planning Reserve Margin
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Date	December 7, 2012
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Submitter's Information	
Name	Adrian Pieniazek
E-mail Address	adrian.pieniazek@nrgenergy.com
Company	NRG Energy, Inc.
Phone Number	512-473-8895
Cell Number	512-844-9888
Market Segment	Independent Generator

Comments

At its 11/29/12 meeting the Technical Advisory Committee (TAC), tabled Nodal Protocol Revision Request (NPRR) 489 for the purposes of determining the feasibility of separating the assumptions used for the semi-annual Report on Capacity, Demand and Reserves in the ERCOT Region (CDR) and the planning models.

At the December 5, 2012 WMS meeting and the December 6, 2012 ROS meeting, the motions to "endorse the concept that the CDR and the ERCOT planning models can have unique and separate sets of planning assumptions" passed.

As a result of the WMS and ROS votes, NRG submits these comments to remove the linkage between the planning model assumptions and the CDR/Planning Reserve Margin assumptions by proposing revisions to variables "PLANNON_{s,i}" and "PLANWIND_{s,i}" to align with the existing language in Section 8.3.2, Total Capacity Estimate, of the Planning Guide. The alignment is necessary as NPRR489, as originally submitted, assumed the assumptions for the addition of proposed Generation Resources in the planning models would be the same as the assumptions used for Planning Reserve Margin.

Revised Proposed Protocol Language Revision

NPRR Comments

2.1 DEFINITIONS

Interconnecting Entity (IE)

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Any Entity that proposes to interconnect an All-Inclusive Generation Resource with the ERCOT System, upgrade the rated capacity of an existing All-Inclusive Generation Resource by ten MW or greater, re-power an All-Inclusive Generation Resource, or change the Point of Interconnection (POI) of an All-Inclusive Generation Resource.

Peak Load Season

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

Planning Reserve Margin (PRM)

The net of total capacity for the Peak Load Season, less firm peak Load for the Peak Load Season, divided by the firm peak Load for the Peak Load Season (expressed as a percentage).

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2.2 ACRONYMS AND ABBREVIATIONS

IE Interconnecting Entity

PRM Planning Reserve Margin

3.2.6 ERCOT Planning Reserve Margin

ERCOT shall calculate the Planning Reserve Margin (PRM) for each Peak Load Season as follows:

$$PRM_{s,t} = (TOTCAP_{s,t} - FIRMPKLD_{s,t}) / FIRMPKLD_{s,t}$$

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The above variables are defined as follows:

Variable	Unit	Definition
$PRM_{s,t}$	%	<i>Planning Reserve Margin</i> —The Planning Reserve Margin for the Peak Load Season s for year t .
$TOTCAP_{s,t}$	MW	<i>Total Capacity</i> —Total Capacity available during the Peak Load Season s for the year t .
$FIRMPKLD_{s,t}$	MW	<i>Firm Peak Load</i> —Firm Peak Load for the Peak Load Season s for the year t .
t	None	Year
s	None	Peak Load Season

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3.2.6.1 Minimum ERCOT Planning Reserve Margin Criterion

The minimum ERCOT PRM criterion is 13.75%. ERCOT shall periodically review and recommend to the ERCOT Board any changes to the minimum ERCOT PRM to ensure adequate reliability of the ERCOT System.

3.2.6.2 ERCOT Planning Reserve Margin Calculation Methodology

ERCOT shall prepare and publish on the ERCOT website, at least annually, the Report on Capacity, Demand and Reserves in the ERCOT Region, containing an estimate of the PRM for the current Peak Load Seasons as well as a minimum of ten future summer and winter peak Load periods. The format and content of this report shall be developed by ERCOT, and subject to Technical Advisory Committee (TAC) approval. The estimate of the PRM shall be based on the methodology in Section 3.2.6.2.1, Peak Load Estimate, and Section 3.2.6.2.2, Total Capacity Estimate.

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3.2.6.2.1 Peak Load Estimate

ERCOT shall prepare, at least annually, a forecast of the total peak Load for both summer and winter Peak Load Seasons for the current year and a minimum of ten future years using an econometric forecast, taking into account econometric inputs, weather conditions, demographic data and other variables as deemed appropriate by ERCOT. The firm Peak Load Season estimate shall be determined by the following equation:

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$$\text{FIRMPKLD}_{s,i} = \frac{\text{TOTPKLD}_{s,i} - \text{LRRRS}_{s,i} - \text{LRNSRS}_{s,i} - \text{ERS}_{s,i} - \text{CLR}_{s,i}}{\text{ENERGYEFF}_{s,i}}$$

The above variables are defined as follows:

Variable	Unit	Definition
$\text{FIRMPKLD}_{s,i}$	MW	<i>Firm Peak Load Estimate</i> —The Firm Peak Load Estimate for the Peak Load Season s for the year i .
$\text{TOTPKLD}_{s,i}$	MW	<i>Total Peak Load Estimate</i> —The Total Peak Load Estimate for the Peak Load Season s for the year i .
$\text{LRRRS}_{s,i}$	MW	<i>Load Resource providing Responsive Reserve (RRS)</i> —The amount of RRS a Load Resource is providing for the Peak Load Season s for the year i .
$\text{LRNSRS}_{s,i}$	MW	<i>Load Resource providing Non-Spinning Reserve (Non-Spin)</i> —The amount of Non-Spin a Load Resource is providing for the Peak Load Season s for the year i .
$\text{ERS}_{s,i}$	MW	<i>Emergency Response Service (ERS)</i> —The amount of ERS for the Peak Load Season s for the year i based on: (a) For the winter Peak Load Season of the current year, the amount of ERS procured by ERCOT for the October to January ERS Contract Period using the simple average of two time period procurements (Business Hours and non-Business Hours); (b) For the summer Peak Load Season of the current year, the amount of ERS procured by ERCOT for the May procurement (Business Hours); and (c) For all subsequent years and Peak Load Seasons, escalate the amount of ERS from the previous season by 10%.
$\text{CLR}_{s,i}$	MW	<i>Amount of Controllable Load Resource</i> —Amount of Controllable Load Resource that is available for Dispatch by ERCOT during the current year i for the Peak Load

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Variable	Unit	Definition
		Season <i>s</i> not already included in LRRRS or LRNSRS.
ENERGYEFF _{<i>s,i</i>}	MW	<i>Amount of Energy Efficiency Programs Procured</i> —Amount of energy efficiency programs procured by Transmission and/or Distribution Service Providers (TDSBs) pursuant to P U C SUBST R 25 181, Energy Efficiency Goal, for the Peak Load Season <i>s</i> for the year <i>i</i> .
<i>i</i>	None	Year.
<i>s</i>	None	Peak Load Season.

3.2.6.2.2 *Total Capacity Estimate*

The total capacity estimate shall be determined based on the following equation:

$$\text{TOTCAP}_{s,i} = \text{INSTCAP}_{s,i} + \text{PUNCAP}_{s,i} + \text{WINDCAP}_{s,i} + \text{RMRCAP}_{s,i} + \text{DCTIECAP}_{s,i} + \text{SWITCHCAP}_{s,i} + \text{MOTHCAP}_{s,i} + \text{PLANNON}_{s,i} + \text{PLANWIND}_{s,i} - \text{UNSWITCH}_{s,i} - \text{RETCAP}_{s,i}$$

The above variables are defined as follows:

Variable	Unit	Definition
TOTCAP _{<i>s,i</i>}	MW	<i>Total Capacity</i> —Total Capacity available during the Peak Load Season <i>s</i> for the year <i>i</i> .
INSTCAP _{<i>s,i</i>}	MW	<i>Seasonal Net Max Sustainable Rating</i> —The Seasonal net max sustainable rating for the Peak Load Season <i>s</i> as reported in the approved Resource registration process for each operating Generation Resource for the year <i>i</i> excluding Wind-powered Generation Resources (WGRs), Resources operating under Reliability Must-Run (RMR) Agreements, and Generation Resources capable of “switching” from the ERCOT Region to a non-ERCOT Region.
PUNCAP _{<i>s,i</i>}	MW	<i>Private Use Network Capacity</i> —The Private Use Network capacities as provided to ERCOT pursuant to Section 3 10 7 3, Modeling of Private Use Networks.
WINDCAP _{<i>s,i</i>}	MW	<i>Effective Load Carrying Capability of WGRs</i> —The effective Load carrying capability of all existing WGRs as determined by ERCOT for the Peak Load Season <i>s</i> for the year <i>i</i> .
RMRCAP _{<i>s,i</i>}	MW	<i>Seasonal Net Max Sustainable Rating for Generation Resource providing RMR Service</i> —The Seasonal net max sustainable rating for the Peak Load Season <i>s</i> as reported in the approved Resource registration process for each Generation Resource providing RMR Service for the year <i>i</i> until the approved exit strategy for the RMR Resource is expected to be completed.
DCTIECAP _{<i>s,i</i>}	MW	<i>Seasonal Net Max Sustainable Rating for Direct Current Tie (DC Tie) Resource</i> —The Seasonal net max sustainable rating for the Peak Load Season <i>s</i> as reported in the approved Resource registration process for each DC Tie Resource for the year <i>i</i> multiplied by 50%.
SWITCHCAP _{<i>s,i</i>}	MW	<i>Seasonal Net Max Sustainable Rating for Switching Generation Resource</i> —The Seasonal net max sustainable rating for the Peak Load Season <i>s</i> as reported in the approved Resource asset registration process for each Generation Resource for the year <i>i</i> that can electrically connect (i.e., “switch”) from the ERCOT Region to another power region.

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Variable	Unit	Definition
MOTHCAP _{s,i}	MW	<u>Seasonal Net Max Sustainable Rating for Mothballed Generation Resource</u> —The <u>Seasonal net max sustainable rating for the Peak Load Season s as reported in the approved Resource registration process for each Mothballed Generation Resource for the year i based on the lead time and probability information furnished by the owners of Mothballed Generation Resources pursuant to Section 3.14.1.9, Generation Resource Return to Service Updates.</u>
PLANNON _{s,i}	MW	<u>New, non-Wind Generating Capacity</u> —The amount of new, non-wind generating capacity for the Peak Load Season s and year i that (a) has a Texas Commission on Environmental Quality (TCEQ)-approved air permit, and (b) has a signed Standard Generation Interconnect Agreement (SGIA), or a public, financially-binding agreement between the Resource owner and Transmission Service Provider (TSP) under which generation interconnection facilities would be constructed, or for a Municipally Owned Utility (MOU) or Electric Cooperative (EC), a public commitment letter to construct a new Resource.
PLANWIND _{s,i}	MW	<u>Effective Load Carrying Capability of New Intermittent Renewable Resource (IRR) Capacity</u> —The effective Load carrying capability of new IRR capacity as determined by ERCOT for the Peak Load Season s and year i that has an SGIA or other public, financially-binding agreement between the Resource owner and TSP under which generation interconnection facilities would be constructed or, for a MOU or FC, a public commitment letter to construct a new IRR.
UNSWITCH _{s,i}	MW	<u>Capacity of Unavailable Switchable Generation Resource</u> —The amount of capacity reported by the owners of a switchable Generation Resource that will be unavailable to ERCOT during the Peak Load Season s and year i pursuant to paragraph (2) of Section 16.5.4, <u>Maintaining and Updating Resource Entity Information.</u>
RETCAP _{s,i}	MW	<u>Capacity Pending Retirement</u> —The amount of capacity in Peak Load Season s of year i that is pending retirement based on information a submitted on a Notification of Suspension of Operations form (Section 22, Attachment E, Notification of Suspension of Operations) pursuant to Section 3.14.1.11, <u>Budgeting Eligible Costs, but is under review by ERCOT pursuant to Section 3.14.1.2, ERCOT Evaluation, that has not otherwise been considered in any of the above defined categories.</u>
i	None	Year
s	None	Peak Load Season

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