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| PGRR Number | [095](http://www.ercot.com/mktrules/issues/pgrr095) | PGRR Title | Establish Minimum Deliverability Criteria |
| Date of Decision | March 31, 2022 |
| **Action** | Approved |
| Timeline | Normal |
| Effective Date | Upon system implementation |
| Priority and Rank Assigned  | Not applicable |
| Planning Guide Sections Requiring Revision  | 4.1.1.7, Minimum Deliverability Criteria (new) |
| Related Documents Requiring Revision/Related Revision Requests | None |
| Revision Description | This Planning Guide Revision Request (PGRR) establishes minimum deliverability criteria for Resources that are located within the ERCOT System and whose output is primarily within ERCOT’s control, through Dispatch Instructions, over the entire real power capability range of each Resource. |
| Reason for Revision |  Addresses current operational issues. Meets Strategic goals (tied to the [ERCOT Strategic Plan](http://www.ercot.com/content/wcm/lists/144926/ERCOT_Strategic_Plan_2019-2023.pdf) or directed by the ERCOT Board). Market efficiencies or enhancements Administrative Regulatory requirements Other: (explain)*(please select all that apply)* |
| Business Case | This PGRR is intended to ensure that Resources that are located within the ERCOT System and whose output is primarily within ERCOT’s control, through Dispatch Instructions, over the entire real power capability range of each Resource are not “bottled” from a reliability perspective. Establishing minimum deliverability criteria for such Resources will facilitate the identification of transmission needs to maintain reliability under system conditions with the potential for resource shortages (e.g., peak Load conditions).The purpose of minimum deliverability criteria is not to guarantee that any given Resource will be dispatched under any given system condition, but rather to ensure that Resources to which the criteria apply are simultaneously deliverable to serve Demand when needed. As such, this PGRR is not intended to make or imply any changes to Real-Time operations or the use of market tools to dispatch Resources. |
| ROS Decision | On 10/7/21, ROS voted unanimously via roll call to table PGRR095 and refer the issue to the Planning Working Group (PLWG). All Market Segments participated in the vote.On 1/6/22, ROS voted unanimously via roll call to recommend approval of PGRR095 as amended by the 12/16/21 PLWG comments as revised by ROS. All Market Segments participated in the vote.On 2/7/22, ROS voted unanimously via roll call to endorse and forward to TAC the 1/6/22 ROS Report and the Revised Impact Analysis for PGRR095. All Market Segments participated in the vote. |
| Summary of ROS Discussion | On 10/7/21, ERCOT Staff provided an overview of PGRR095 noting that the intent of the PGRR is to improve planning criteria addressing reliability concerns, not to make changes to how Resources dispatch. Market Participants discussed the definition for dispatchable Resources and requested further review of the issues at PLWG.On 1/6/22, participants reviewed the 12/16/21 PLWG comments and made clarifying revisions to the types of technology referenced in paragraph (3)(a).On 2/7/22, participants reviewed the Revised Impact Analysis for PGRR095. |
| TAC Decision | On 2/23/22, TAC voted via roll call to recommend approval of PGRR095 as recommended by ROS in the 2/7/22 ROS Report; and for the minimum deliverability criteria, a minimum percentage of capacity of 100% to serve expected coincident peak Load. There were two opposing votes from the Independent Generator (Calpine) and Independent Retail Electric Provider (IREP) (Demand Control 2) Market Segments, and four abstentions from the Consumer (2) (Residential, OPUC) and Independent Power Marketer (IPM) (2) (DC Energy, Shell Energy) Market Segments. All Market Segments participated in the vote. |
| Summary of TAC Discussion | On 2/23/22, participants reviewed the ERCOT Opinion and ERCOT Market Impact Statement. ERCOT Staff presented its recommendation that the minimum percentage of capacity be set to 100% to serve expected coincident peak Load, and that the minimum duration threshold be set to four hours for Energy Storage Resources (ESRs). Some participants expressed concern for a four hour duration threshold and the methodology/criteria used to determine the threshold, that stakeholders had insufficient time to review the recommendation, how much transmission investment the duration threshold would require, and impacts to various types of Resources. ERCOT Staff noted that planning studies cannot proceed without determining the minimum duration threshold. Participants recommended that PGRR095 be advanced with ERCOT’s recommendation for minimum capacity to be set at 100%, and that ROS further discuss the minimum duration threshold and bring its recommendation to the March 2022 TAC meeting. |
| ERCOT Opinion | ERCOT supports approval of PGRR095. |
| ERCOT Market Impact Statement | ERCOT Staff has reviewed PGRR095 and believes the market impact for PGRR095 facilitates the identification of transmission needs to maintain reliability under system conditions with the potential for Resource shortages (e.g., peak Load conditions). |
| ERCOT Board Decision | On 3/7/22, the ERCOT Board recommended approval of PGRR095 as recommended by TAC in the 2/23/22 TAC Report and the Revised Impact Analysis. |
| PUCT Decision | On 3/31/22, the PUCT approved PGRR095 and accompanying ERCOT Market Impact Statement as presented in Project No. 52934, Review of Rules Adopted by the Independent Organization. |

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| Market Segment | Not Applicable |

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| **Comments Received** |
| Comment Author | **Comment Summary** |
| REMC 101321 | Proposed use of “non-intermittent” to replace the term “dispatchable”; proposed addition of Direct Current Tie (DC Tie) imports to the list of applicable Resources |
| Oncor 110521 | Recommended adding P2-1 and P3 contingencies to the categories of system events described in paragraph (1)(a) |
| ERCOT 120721 | Responded to comments and offered further clarifications following input provided at recent PLWG meetings |
| LCRA 121321 | Proposed adding hydro to the list of technology types in paragraph (3)(a) |
| PLWG 121621 | Proposed additional clarification to the list of technology types in paragraph (3)(a) |

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| Market Rules Notes |

None

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| Proposed Guide Language Revision |

4.1.1.7 Minimum Deliverability Criteria

(1) In conducting its planning analyses, ERCOT and each TSP shall ensure that an ERCOT-defined minimum percentage of capacity of each Resource described in paragraph (3) below can be delivered to serve peak system Load while meeting the following reliability criteria:

(a) Category P0, P1, P2-1, P3, and P7 planning events from the NERC Reliability Standard addressing Transmission System Planning Performance Requirements; and

(b) The ERCOT-specific reliability performance criteria included in Section 4.1.1.2, Reliability Performance Criteria.

(2) The minimum percentage of capacity referenced in paragraph (1) above shall be applied to each Resource’s applicable Seasonal Net Max Sustainable Rating submitted through the Resource Registration process.

(3) The minimum deliverability condition described in paragraph (1) applies to the following Resources:

(a) Any Generation Resource utilizing combined cycle, steam turbine, combustion turbine, hydro, or reciprocating engine technology; or

(b) Any Energy Storage Resource (ESR) meeting an ERCOT-defined minimum duration threshold.

(4) Resources other than those described in paragraph (3) above may be redispatched as necessary to meet the requirements of this section.

(5) ERCOT-proposed revisions to the minimum percentage of capacity or minimum duration threshold for ESRs used to implement the requirements of this section will be recommended by the Technical Advisory Committee (TAC) and approved by the ERCOT Board.

(a) ERCOT will post the current values approved by the ERCOT Board pursuant to paragraph (5) above on the ERCOT website.