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| PGRR Number | [128](https://www.ercot.com/mktrules/issues/PGRR128) | PGRR Title | Regional Transmission Plan Review of Grid Enhancing Technologies |
| Date Posted | June 12, 2025 |
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| Requested Resolution  | Normal |
| Planning Guide Sections Requiring Revision  | 3.1.1.2, Regional Transmission Plan |
| Related Documents Requiring Revision/Related Revision Requests | None |
| Revision Description | This Planning Guide Revision Request (PGRR) requires ERCOT to consider the use of grid enhancing technologies and advanced conductors in the annual Regional Transmission Plan. |
| Reason for Revision |  [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 1 – Be an industry leader for grid reliability and resilience [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 2 - Enhance the ERCOT region’s economic competitiveness with respect to trends in wholesale power rates and retail electricity prices to consumers [Strategic Plan](https://www.ercot.com/files/docs/2023/08/25/ERCOT-Strategic-Plan-2024-2028.pdf) Objective 3 - Advance ERCOT, Inc. as an independent leading industry expert and an employer of choice by fostering innovation, investing in our people, and emphasizing the importance of our mission General system and/or process improvement(s) Regulatory requirements ERCOT Board/PUCT Directive*(please select ONLY ONE – if more than one apply, please select the ONE that is most relevant)* |
| Justification of Reason for Revision and Market Impacts | Transmission Service Providers (TSPs) have proposed to double the review threshold for ERCOT projects from $50 million to $100 million in Nodal Protocol Revision Request (NPRR) 1274, RPG Estimated Capital Cost Thresholds of Proposed Transmission Projects. If the 6/12/25 TEBA comments are recommended to amend NPRR1274, relaxation of the project review threshold for transmission projects paid for by consumers should create an additional consumer benefit. Grid enhancing technologies and advanced conductors benefit consumers and the grid by lowering the cost of maintaining system reliability and system resiliency.  |

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| Market Segment | Not Applicable |

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| Proposed Guide Language Revision |

**3.1.1.2 Regional Transmission Plan**

(1) The Regional Transmission Plan is developed annually by ERCOT, in coordination with the RPG and Transmission Service Providers (TSPs). The Regional Transmission Plan addresses regional and ERCOT-wide reliability and economic transmission needs and the planned improvements to meet those needs for the upcoming six years starting with the SSWG base cases. These planned improvements include projects previously approved by the ERCOT Board, projects previously reviewed by the RPG, new projects that will be refined at the appropriate time by TSPs in order to complete RPG review, and the local projects currently planned by TSPs. Combined, these projects represent ERCOT’s plan which addresses the reliability and efficiency of the ERCOT System in order to meet North American Electric Reliability Corporation (NERC) Reliability Standards, the Protocols, Nodal Operating Guides and this Planning Guide. Projects that are included in the Regional Transmission Plan are not considered to have been endorsed by ERCOT until they have undergone the appropriate level of RPG Project Review as outlined in Protocol Section 3.11.4, Regional Planning Group Project Review Process, if required. The process used by ERCOT to develop the Regional Transmission Plan is outlined in Section 3.1.4, Regional Transmission Plan Development Process.

(2) ERCOT shall post the Regional Transmission Plan by December 31 of each year as follows:

(a) Versions that include ERCOT Critical Energy Infrastructure Information (ECEII) shall be posted on the Market Information System (MIS) Secure Area;

(b) Versions that include both ECEII and Protected Information shall be posted on the MIS Certified Area for TSPs only; and

(c) Versions redacted of ECEII and Protected Information shall be posted on the ERCOT website.

(3) ERCOT shall include in the Regional Transmission Plan report a list of Transmission Facilities that are loaded above 95% of their applicable Ratings for the following conditions:

(a) Normal system conditions; or

(b) Following the contingency loss of a single generating unit, transmission circuit, transformer, or common tower outage.

(4) ERCOT must evaluate in the Regional Transmission Plan the potential use of grid enhancing technologies and high-performance conductors for the purpose of:

(a)   increasing transmission capacity;

(b)   reducing transmission system congestion;

(c)   increasing reliability of electric services;

(d)   increasing safety of transmission system crossings over water; and

(e)   reducing the risk of wildfires.

(5) For the purposes of the Regional Transmission Plan:

(a) “Grid enhancing technologies” mean any hardware or software technology that enables or provides enhanced or more efficient performance from the transmission system; and

(b) "High-performance conductors" means modern conductor technologies that have improved performance characteristics, such as increased capacity, higher efficiency, and reduced or no thermal sag.

(6)   An evaluation under paragraph (4) above must include considerations of the availability, technical feasibility, repairability, durability, operational risks, long-term Load support viability, and cost-effectiveness of grid enhancing technologies and high-performance conductors.

(7) To facilitate its obligations under paragraph (6) above, ERCOT may from time to time prepare and/or provide a report of available grid enhancing technologies and high-performance conductors for TSPs to consider in constructing and operating their facilities. ERCOT may decline to recommend the use of a particular grid enhancing technology or high-performance conductor if it determines the technology or conductor is not readily available or implementation of the technology or conductor would not be feasible or cost-effective.