

System Planning

**Monthly Status Report**

Report Highlights

* ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $939.46 million as of March 31, 2022.
* Transmission Projects endorsed in 2022 total $ $352.60 million as of March 31, 2022.
* All projects (in engineering, routing, licensing, and construction) total approximately $8.00 billion[[1]](#footnote-2) as of October 1, 2021.
* Transmission Projects energized in 2021 total approximately $1.438 billion[[2]](#footnote-3) (as of October 1, 2021).

Regional Planning Group Reviews

RPG Projects under Review:

* Oncor has submitted the Nacogdoches Southeast Switch – Redland Switch – Lufkin Switch 345-kV Loop Project (RPG Project ID: 20RPG019). This is a Tier 2 project that is estimated to cost $71.3 million. This project is currently under ERCOT’s independent review.
* AEPSC has submitted the Abilene South to Putnam 138-kV Transmission Line Rebuild Project (RPG Project ID: 22RPG002). This is a Tier 3 project that is estimated to cost $31.5 million. The RPG review of this project was completed on March 4. Pursuant to the Protocol Section 3.11.4.3.1 (d), this project has been reclassified as a Tier 4 neutral project.
* Oncor has submitted the Roanoke Area Upgrades Project (RPG Project ID: 22RPG003). This is a Tier 1 project that is estimated to cost $285.9 million. This project is currently under ERCOT’s independent review.
* AEPSC has submitted the Pulsar to Victoria 138-kV Line Rebuild Project (RPG Project ID: 22RPG004). This is a Tier 3 project that is estimated to cost $75.7 million. The RPG review of this project was completed on March 21. Pursuant to the Protocol Section 3.11.4.3.1 (d), this project has been reclassified as a Tier 4 neutral project.
* LCRA TSC has submitted the Hays Energy – Kendall Corridor Transmission Line Rehabilitation Projects (RPG Project ID: 22RPG005). This is a Tier 1 project that is estimated to cost $399.9 million. This project is currently in the RPG study mode.
* Oncor has submitted the Consavvy 345/138-kV Switch Project (RPG Project ID: 22RPG006). This is a Tier 3 project that is estimated to cost $90.2 million. This project is currently in the RPG comment period.
* Oncor and WETT have jointly submitted the Lenorah Area 345/138-kV Project (RPG Project ID: 22RPG007). This is a Tier 3 project that is estimated to cost $45.2 million. This project is currently in the RPG comment period.
* Oncor has submitted the Bowman Switch 345/138-kV Autotransformers Project (RPG Project ID: 22RPG008). This is a Tier 3 project that is estimated to cost $13 million. This project is currently in the RPG comment period.
* AEPSC has submitted the Eden to North Brady 69-kV Line Rebuild Project (RPG Project ID: 22RPG009). This is a Tier 3 project that is estimated to cost $34 million. This project is currently in the RPG comment period.

RPG Project Reviews Completed in 2022:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RPG Project ID | RPG Project Name | Submitted Entity | Tier | Estimated Cost ($ Millions) | Review Completion Month |
| 21RPG021 | Mulberry Creek 345 kV Station Improvements Project | AEPSC/Oncor | Reclassified from Tier 3 to Tier 4 per Protocol | 49.2 | January |
| 21RPG022 | Marshall Ford-Ruther Ford 138 kV Line Rebuild Project | PEC | Reclassified from Tier 3 to Tier 4 per Protocol | 28.8 | January |
| 21RPG023 | Barrilla Junction 69 kV loop Rebuild and Conversion Project | AEPSC | Tier 3 | 44 | January |
| 21RPG024 | Tungsten 138/69 kV Station Transmission Project | AEPSC | Reclassified from Tier 3 to Tier 4 per Protocol | 34.9 | January |
| 22RPG001 | Greens Bayou to Clinton 138 kV Conversion Project | CNP | Reclassified from Tier 3 to Tier 4 per Protocol | 88.5 | February |
| 22RPG002 | Abilene South to Putnam 138-kV Transmission Line Rebuild Project | AEPSC | Reclassified from Tier 3 to Tier 4 per Protocol | 31.5 | March |
| 22RPG004 | Pulsar to Victoria 138 kV Line Rebuild project | AEPSC | Reclassified from Tier 3 to Tier 4 per Protocol | 75.7 | March |

More information on current and past RPG projects can be found on the ERCOT MIS Secure (digital certificate required): https://mis.ercot.com/secure/data-products/grid/regional-planning

Past email communication on RPG projects can be found on the ERCOT listserv by signing up for the REGPLANGROUP list: <http://lists.ercot.com/scripts/wa-ERCOT.exe?A0=REGPLANGROUP>

Planning Model Activities

The short-term calendar of major planning model events is as follows:

* By March 1, 2022 21SSWG Update 2 cases, in PSS/E 35, and TPIT will be posted
* By March 15, 2022 21SSWG Contingency definitions & Planning Data Dictionary will be posted

The following table shows interconnection projects that met Planning Guide section 6.9(1) and 6.9(2) and were modeled in the SSWG cases as a full model or as a simple model in accordance with Planning Guide section 6.9.



Permian Basin Oil Rig Count[[3]](#footnote-4)



Other Notable Activities

* ERCOT presented the methodology to incorporate known outages, as required by NERC Reliability Standard TPL-001-5.1, into the 2022 Regional Transmission Plan (RTP) to the Regional Planning Group (RPG) in March.
* ERCOT provided an update on DC Tie, wind, solar, and hydro dispatch assumptions for the 2022 RTP to the RPG in March. The presentation also included details on how the rooftop solar growth forecast is being incorporated into the 2022 RTP.
* ERCOT presented information on the final load review for the 2022 RTP to the RPG in March.
* ERCOT is conducting a study for the proposed integration of the remainder of LP&L’s Load and plans to complete the study within Q2, 2022.
1. Based on the Total Project Estimated Cost for all future projects listed in the Transmission Project Information and Tracking (TPIT) report. TPIT is updated three times each year based on information TSPs provide in Model on Demand (MOD) as specified in the ERCOT Steady State Working Group Procedure Manual. The latest TPIT is available at https://www.ercot.com/gridinfo/planning. [↑](#footnote-ref-2)
2. Based on the Total Project Estimated Cost for all completed projects with Projected In-Service Dates in 2021 listed in the TPIT. [↑](#footnote-ref-3)
3. +/- symbol indicates the increase or decrease from the previous month in oil rigs present in each county. There are 226 rigs, including an increase of 16 oil rigs, in the Permian Basin from February to March 2022. [↑](#footnote-ref-4)