

System Planning

**Monthly Status Report**

Report Highlights

* ERCOT is currently reviewing proposed transmission improvements with a total estimated cost of $3.727 billion as of April 30, 2025.
* Transmission Projects endorsed in 2025 total $931.52 million as of April 30, 2025.
* All projects (in engineering, routing, licensing, and construction) total approximately $16.866 billion[[1]](#footnote-2) as of February 1, 2025.
* Transmission Projects energized in 2025 total approximately $386.78 million (as of February 1, 2025).

Regional Planning Group Reviews

RPG Projects under Review:

* Oncor has submitted the Delaware Basin State 5 Project (RPG Project ID: 24RPG015). This is a Tier 1 project that is estimated to cost $744.60 million. This project is currently under ERCOT’s independent review.
* Oncor has submitted the Connell 345/138-kV Switch and Connell to Rockhound 345-kV Double-Circuit Line Project (RPG Project ID: 24RPG020). This is a Tier 1 project that is estimated to cost $110.62 million. This project is currently under ERCOT’s independent review.
* WETT has submitted the WETT Delaware Basin Stage 5 Project Alternative (RPG Project ID: 24RPG023). This is a Tier 1 project that is estimated to cost $305.50 million. This project is currently under ERCOT’s independent review.
* Oncor and LCRA TSC have submitted the Hartring to Upland 138-kV Line and Benedum Autotransformer Addition Project (RPG Project ID: 24RPG024). This is a Tier 2 project that is estimated to cost $94.00 million. This project is currently under ERCOT’s independent review.
* CNP has submitted the Baytown Area Load Addition Project (RPG Project ID: 24RPG028). This is a Tier 1 project that is estimated to cost $141.65 million. This project is currently under ERCOT’s independent review.
* Oncor has submitted the Tredway 138-kV Switch and Expanse to Tredway 138-kV 2nd Circuit Project (RPG Project ID: 24RPG029). This is a Tier 1 project that is estimated to cost $119.03 million. ERCOT completed the independent review on April 18, and the recommended project is estimated to cost $119.03 million. TAC voted unanimously to endorse the project on April 23, 2025. ERCOT will present the recommendation for Board of Directors endorsement on June 24, 2025.
* LST has submitted the Central Texas 345-kV Transmission Project (RPG Project ID: 24RPG031). This is a Tier 1 project that is estimated to cost $342.00 million. This project was withdrawn by LST on April 22 and ERCOT concluded the independent review on April 23. ERCOT will not post an independent report on ERCOT MIS – Regional Planning page and will not issue an endorsement letter for this project.
* CNP has submitted the Southwest Houston 345-kV Reliability Project (RPG Project ID: 24RPG032). This is a Tier 1 project that is estimated to cost $569.32 million. ERCOT completed the independent review on April 11 and did not identify any reliability concerns in the study area. ERCOT will not recommend or endorse a project in the study area.
* AEPSC has submitted the Aransas Pass to Rincon 69-kV Line Rebuild Project (RPG Project ID: 24RPG035). This is a Tier 2 project that is estimated to cost $33.00 million. This project is currently under ERCOT’s independent review.
* TNMP has submitted the Galveston Region Project (RPG Project ID: 24RPG039). This is a Tier 1 project that is estimated to cost $133.73 million. This project is currently under ERCOT’s independent review.
* Oncor has submitted the Roscoe Area Upgrades Project (RPG Project ID: 24RPG040). This is a Tier 2 project that is estimated to cost $83.00 million. This project is currently under ERCOT’s independent review.
* BTU has submitted the Texas A&M University System RELLIS Campus Reliability Project (RPG Project ID: 25RPG001). This is a Tier 1 project that is estimated to cost $271.50 million. This project is currently under ERCOT’s independent review.
* BEC has submitted the Hamilton County Conversion Project (RPG Project ID: 25RPG003). This is a Tier 2 project that is estimated to cost $90.00 million. This project is currently under ERCOT’s independent review.
* Oncor has submitted the Southern DFW Load Interconnection and General Grid Strengthening Project (RPG Project ID: 25RPG004). This is a Tier 1 project that is estimated to cost $1,219 million. This project is currently under ERCOT’s independent review.
* Oncor has submitted the Salt Flat Road to Barr Ranch to Reiter 138-kV Second Circuit Project (RPG Project ID: 25RPG007). This is a Tier 3 project that is estimated to cost $63.88 million. The RPG review of this project was completed on April 7, and ERCOT has issued an acceptance letter.
* Oncor has submitted the Wolf Switch to Reiter Switch 138-kV Line Project (RPG Project ID: 25RPG008). This is a Tier 3 project that is estimated to cost $52.65 million. The RPG review of this project was completed on April 7, and ERCOT will issue an acceptance letter.
* Oncor and LCRA TSC have submitted the Muscovy and Voss Lake 345/138-kV Project (RPG Project ID: 25RPG009). This is a Tier 1 project that is estimated to cost $381.83 million. This project is currently under ERCOT’s independent review.
* CNP has submitted the 138-kV Flewellen to Fort Bend Upgrades Project (RPG Project ID: 25RPG010). This is a Tier 3 project that is estimated to cost $72.86 million. The RPG review of this project was completed on April 18, and ERCOT will issue an acceptance letter.

RPG Project Reviews Completed in 2025:

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| --- | --- | --- | --- | --- | --- |
| RPG Project ID | RPG Project Name | Submitted Entity | Tier | Estimated Cost ($ Millions) | Review Completion Month |
| 24RPG037  |  Partial Rebuild of 138-kV Ckt.63 West Galveston to Moody Project | CNP | Reclassified from Tier 3 to Tier 4 per Protocol | 26.20 | January |
| 24RPG0378 | Bergheim Substation Upgrade Project | LCRA TSC & PEC | Tier 3 | 66.35 | January |
| 24RPG041 | Buck Canyon and Binturong 345-kV Synchronous Condenser Stations Project | WETT | Tier 3 | 98.61 | January |
| 24RPG017 | Venus Switch to Sam Switch 345-kV Line Project | Oncor | Tier 1 | 118.90 | February |
| 24RPG021 | Forney 345/138-kV Switch Rebuild Project | Oncor | Tier 1 | 100.40 | February |
| 24RPG022 | Wilmer 345/138-kV Switch Project | Oncor | Tier 1 | 158.20 | February |
| 25RPG002 | East Munday 138-kV Station Rebuild Project | AEPSC | Reclassified from Tier 3 to Tier 4 per Protocol | 28.30 | February |
| 25RPG005 | Pitchfork 345-kV Substation Addition Project | WETT | Tier 3 | 57.57 | March |
| 25RPG006 | Resubmission for Salado Switch to Hutto Switch 138-kV Line Project | Oncor | Tier 3 | 87.60 | March |
| 24RPG031 | Central Texas 345-kV Transmission Project | LST | Tier 1 (Withdrawn) | 342.00 | April |
| 24RPG032 | Southwest Houston 345-kV Reliability Project | CNP | Tier 1 (Not Recommend or Endorsed) | 569.32 | April |
| 25RPG007 | Salt Flat Road to Barr Ranch to Reiter 138-kV Second Circuit Project | Oncor | Tier 3 | 63.88 | April |
| 25RPG008 | Wolf Switch to Reiter Switch 138-kV Line Project | Oncor | Tier 3 | 52.65 | April |
| 25RPG010 | 138-kV Flewellen to Fort Bend Upgrades Project | CNP | Tier 3 | 72.86 | April |

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 May 30, 2025 25SSWG Cases and TPIT will be posted
* By June 6, 2025 25SSWG Contingency and 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[[2]](#footnote-3)

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Other Notable Activities

* ERCOT presented an update on financial assumptions for the ERCOT economic planning criteria at the April 2025 RPG meeting.
* ERCOT presented the 2025 ERCOT Long-Term Load Forecast at the April 2025 RPG meeting.
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. +/- symbol indicates the increase or decrease from the previous month in oil rigs present in each county. There are 192 rigs, including an increase of 3 oil rigs, in the Permian Basin from March to April. [↑](#footnote-ref-3)