

# WestTEC Transmission Study: Advancing Nevada's Energy Future

**WestTEC's 10-year West-Wide Transmission Study provides an actionable plan to advance critical transmission projects that strengthen reliability, integrate new resources, and enable economic growth in Nevada and across the West.**

## About the WestTEC Study

Through an unprecedented effort paid for and driven by over 70 regional utilities and stakeholders, WestTEC's *West-Wide Transmission Study: 10-year Horizon Report* identifies transmission projects required for reliable and efficient grid operations through 2035. While this summary focuses on projects located in Nevada, the broader portfolio also includes transmission investments in neighboring states that will provide significant reliability and economic benefits to Nevada.

## WestTEC benefits for Nevada

WestTEC transmission projects would deliver significant benefits to Nevada, including:

- **More generation.** Enables 14 GW of new capacity, representing a 125% increase from today.
- **More resilience.** Supports critical electricity transfers to keep the lights on during extreme events, such as winter storms and heat waves.
- **More economic development.** Enables 40% load growth by 2035, positioning Nevada to attract and grow new industries.
- **Advancing Nevada's goals.** Supports Nevada's Renewable Portfolio Standard requiring utilities to produce 50% of their electricity from renewable sources by 2030.

## Nevada 2035 outlook



**40% load growth**



**2,266 miles of transmission upgrades\***



**14 GW of new generating capacity**

\*Includes interstate transmission projects with mileage outside of Nevada.

## Total investment in Nevada

The WestTEC study identified a need for \$10.9 billion of new or upgraded transmission in Nevada — an investment comparable in scale to the investment by Tesla in Gigafactory Nevada.

While this may seem daunting, projects representing 72% of the total mileage have either been identified in previous utility studies or are currently under development.

Nevada has the expertise, resources, and institutions to deliver these projects. The following page reviews the full project portfolio and outlines what is next.

## Proposed WestTEC transmission projects in Nevada

In Nevada, WestTEC confirmed the need for five projects already identified by incumbent and independent developers. It also identified five additional projects that are not yet formally planned and will require sponsors. All projects must be completed by 2035 to meet growing demand and maintain reliability in Nevada and across the West.

### Nevada Energy projects

NV Energy has identified three WestTEC transmission lines totaling about \$4.3 billion in its resource and transmission plans. Two are part of the Greenlink Project, which will add 585 miles of high-voltage transmission and improve reliability and power transfers across Nevada. All three projects are expected to be in service before 2030, making timely completion critical.

### Independent transmission projects

The TransWest project is a 732-mile 500kV line crossing Wyoming, Colorado, Utah, and Nevada. It will help advance regional grid reliability, resource diversification, and interregional coordination. Construction began in 2023 and is expected to be complete by 2027.

SWIP North is the final segment of the Southwest Intertie Project (SWIP) corridor. The 285-mile 500kV line runs from Eastern Nevada to southern Idaho. Construction will begin this year, and it is scheduled to be in service by 2028.

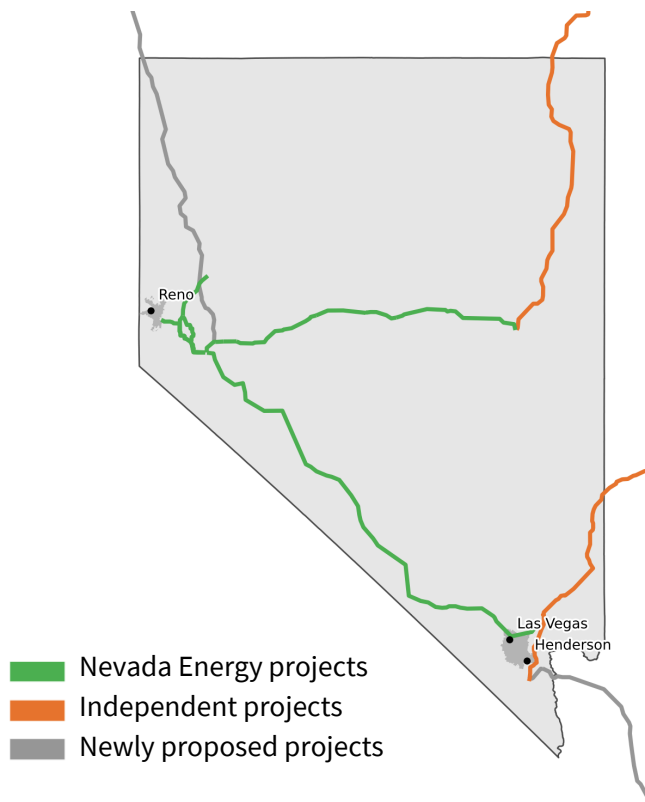
### What happens next?

WestTEC's 10-Year Transmission Study provides an actionable roadmap for advancing transmission in Nevada. Given the long timeline for siting, permitting, and construction, it is critical to move these projects forward now. Independent and incumbent developers must complete their planned projects, while newly proposed projects will need to be advanced through new partnerships. Strong coordination across stakeholders will be essential to ensure these projects are successfully delivered.

### Coming soon...

Expected later in 2026, WestTEC's 20-year horizon study will build on the 10-year horizon study by examining Western grid needs through 2045 under varied load growth, policy, and technology futures. Extending the planning horizon enables more proactive decision-making, helping ensure that near-term investments deliver the greatest long-term value at the lowest overall costs. Additionally, the 20-year study will quantify the cost savings delivered by the portfolio.

### WestTEC transmission portfolio in Nevada by project developer



Source: Horizon Energy Systems, 2026, [ourgridfuture.org](http://ourgridfuture.org)

### Newly proposed projects

The WestTEC plan identified two new lines, one reconductor, and two substation upgrades, totaling \$2.4 billion to address both intrastate and regional needs. While some are being considered by developers, they have not advanced to development and still require sponsorship. Early coordinated action on these projects is essential to ensure reliability through 2035.