

Reference Case

Nodal Reference Case

Off-the-shelf nodal forecast

Nodal Reference Case provides a granular, long-term, fundamental price forecast with fast delivery at a competitive price.

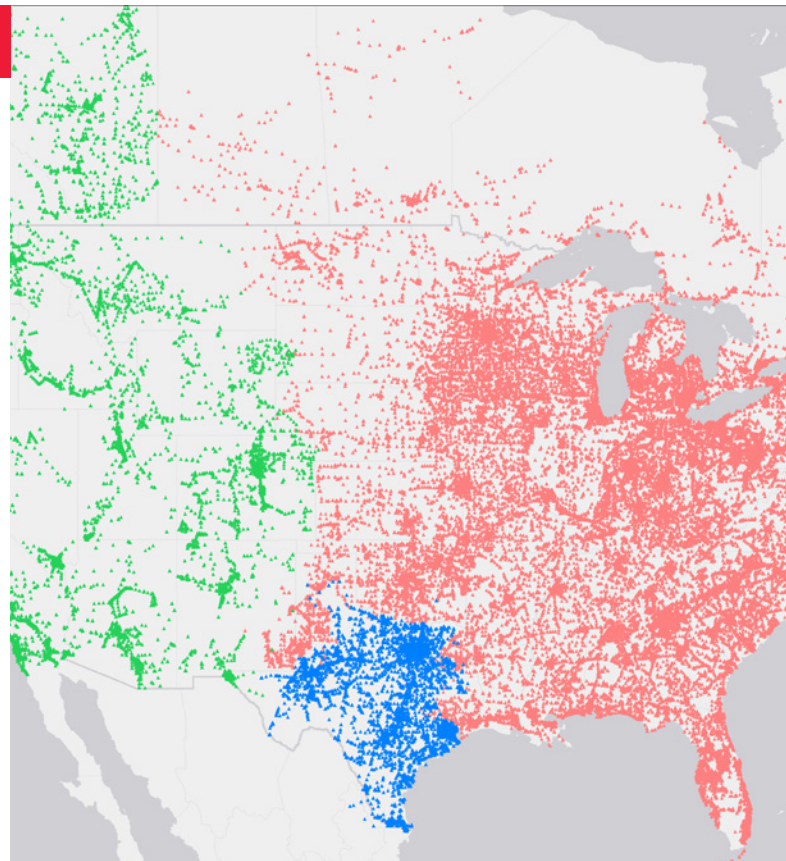
Nodal price forecast

Nodal Reference Case offers granular locational marginal prices (LMP) at the nodal level, providing valuable, quick, and cost-effective assistance to all market participants such as asset developers, utilities, tax equity investors, hedge funds, banks, and more. Some of the potential applications are:

- Initial screening
- Renewable asset operation assessment
- Curtailment analysis
- PPA negotiations
- Basis risk evaluation
- Revenue outlook
- Third-party negotiations and more...

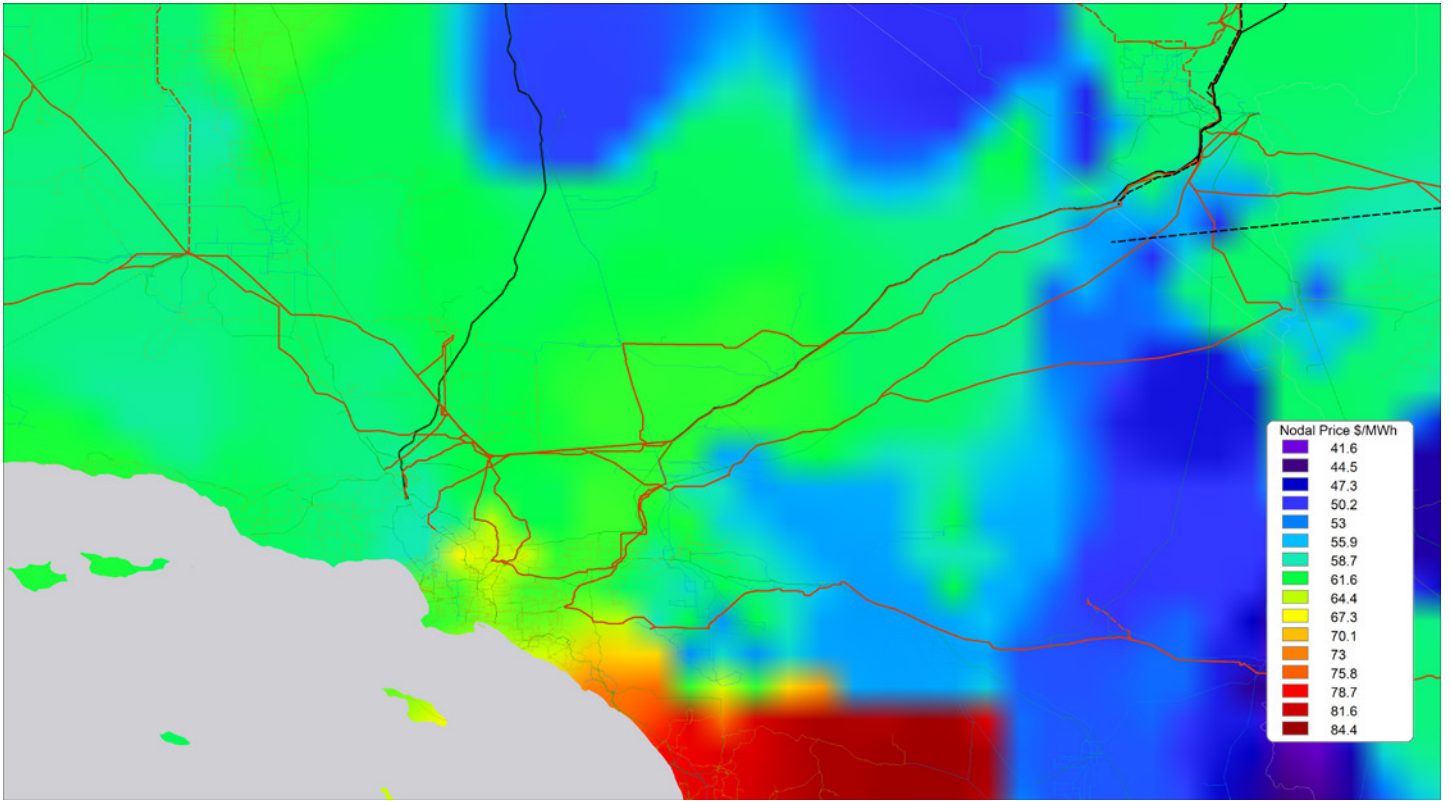
Features

Nodal Reference Case is an hourly, off-the-shelf, presimulated, fundamental LMP forecast for 25 years and for all physical nodes across the three transmission interconnects in the United States and Canada (Eastern Interconnect, WECC and ERCOT). Nodal Reference Case is priced so you only pay for the nodes you need to provide special flexibilities in a fast-moving market where quick access to key information is crucial.



Transmission grid nodes (Source: Hitachi Energy Velocity Suite)

- **Scenarios:** Forecasted LMPs are offered for base case, low natural gas price, high natural gas price, and CO₂ tax scenarios.
- **Fast delivery:** Forecasted LMPs are delivered within one business day.
- **Any location:** Nodes can be chosen from any market within the US and Canada, and are not limited to a specific zone or region.
- **Any time:** Nodes can be partially claimed as needed within one year from the time of contract and do not need to be claimed all at once.
- **Extension:** Years of forecast can be extended up to 15 years beyond the standard 25-year forecast, upon request.



LMP contour for Western Electricity Coordinating Council
 (Source: Hitachi Energy Velocity Suite)

Semiannual releases

Nodal Reference Case is updated twice a year. The first release of the year is the spring release with fundamental input assumptions in line with the spring release of Hitachi Energy’s North American Power Reference Case. The second update is consistent with the fall release of North American Reference Case.

The hourly, monthly and annual LMPs are derived for 25 years for more than 120,000 nodes in the US and Canada, as well as for more granular hubs and areas such as NYISO’s individual zones (zone A, zone C, zone H, etc.). Results are provided in Microsoft® Excel® spreadsheet format. The delivery is within one business day after the contract is executed. Up to 15-year forecast extension beyond the standard 25 years is available upon request.

More information

If you would like to receive more information about Hitachi Energy LMP fundamental forecast, please contact us: us.nrcontainersupport@hitachi-powergrids.com