

Keywords: energy market forecast, electricity market price forecast

Explore New Solutions for Short and Long-Term Traders to Improve Energy Market Forecasts

You need to quickly understand the pricing of over 20,000 power market nodes. Your forecasting models are swinging back and forth with each new weather forecast. You have to make a million-dollar decision before you've even had your coffee.

You face continuous pressure to look further ahead to understand what's driving pricing. That's why we're bringing energy traders new tools to help increase efficiency and enhance the reliability of energy market forecasts.

A Solution for Long-Term Traders: New Builds DataSet

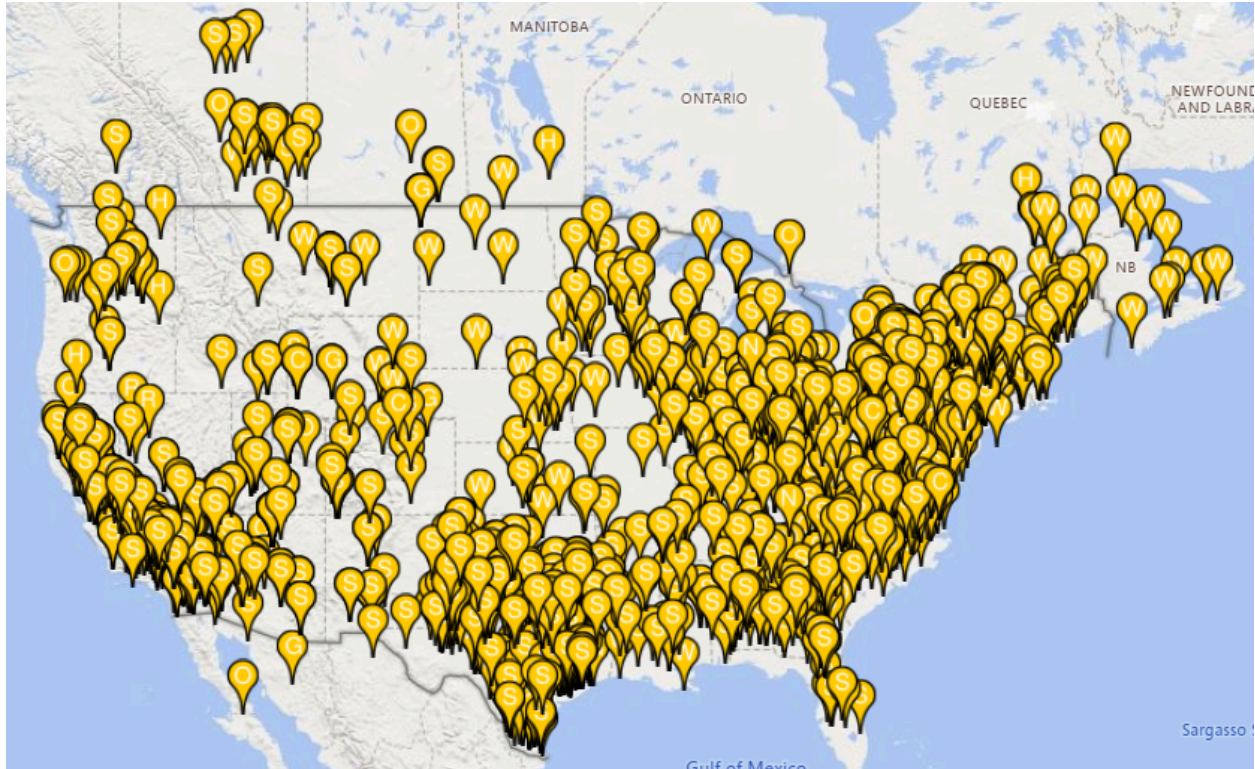
If you're trading financial transmission rights, long-term contracts, or next-day nodal power, you need a comprehensive view of what projects are coming online or offline and how new builds will impact the grid. Gathering that information manually can be time-consuming and resource-intensive.

There's an easier option.

Our [New Builds Dataset](#) is a deep, thoroughly researched database of all energy infrastructure projects in North America.

The dataset compiles new project data procured from more than 2,000 sources including:

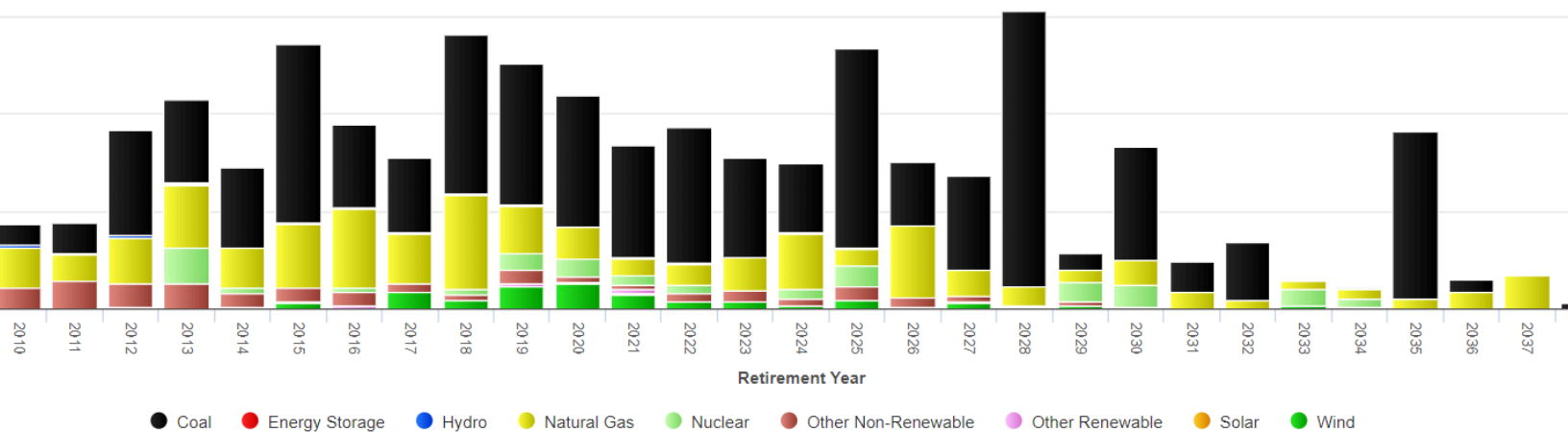
- 7,000 generation projects
- 11,000 transmission projects
- 1,500 data center and crypto mining projects, 1,200 oil and gas infrastructure projects.



Source: C Three Group, a part of Yes Energy

It also details upcoming retirements across the generation space, so you can have a more accurate view of the grid.

US and Canada*



You can dive into the data even further to see key information for projects, including:

- Location
- Project type
- Ownership information
- Status/status history
- Plant/line characteristics and equipment information
- Timeline
- Permits
- PPA/off-take information for plants.

For example, you can see the contractor, interconnection queue ID, and contact information for an upcoming project in ERCOT.

Latitude 34.911976 Longitude -102.275525  Map Accuracy Exact [View This Project](#) Date Ownership Last Checked

NAME, OWNERSHIP, STATE/FEDERAL I.D.s

 PROJECT or UNIT Name	 EIA Plant ID Number	 Site Grouping Link
Dawn Solar	65310	Dawn Solar
 Holding Company or Parent Organization	 See All Holding Company's Projects	 EIA GID
Blue Planet Funding	Blue Planet Funding	
 Intermediate Subsidiary or Utility	 Direct Project Owner	
Renegade Renewables LLC	Dawn Solar LLC	
 Holding Company Entity Type	 Holding Company Country	
Private Equity	US	
 Co-Owner(s)	 Last Known Ownership Change Year	 Transaction Pending?
 Ownership Notes		
 Project Contact Information	Original Project Developer	
David Mitchell, CFO, Blue Planet Funding (Renegade Renewables, LLC) dmitchell@blueplanetfunding.com 646-515-0622	Renegade Renewable LLC	
Sean Purdy, Managing Member, Everett Jones, LLC everettjonesinv@gmail.com Main: 570-259-9203 Mobile: 570-259-9293		
 Federal / State Docket Number(s)	Federal / State Docket Links	
Ch313 #1422	https://comptroller.texas.gov/economy/local/ch313/agreement-docs-details.php?id=1422	

POWER PURCHASE AGREEMENT (PPA)

 PPA Details and Offtaker	
August 2022: BASF Corporation will purchase 100MW of electricity generated by Dawn Solar.	
 PPA Duration (Years)	☒ Project has a PPA 

PROJECT/UNIT DETAILS

 Project Description			
Dawn Solar is a proposed 683.15 MWdc / 515.66 MWac solar farm near Hereford, Deaf Smith County, TX.			
 Project Status	 Project Type	☐ Includes a battery energy storage system 	
Advanced Development			
 State or Province	 County	 See All Power Plants in this County	 Country
TX	Deaf Smith	Deaf Smith, TX	US
 Number of Units	 Nameplate Capacity (MW)	 MWh Energy Storage Capacity	 DC or AC
1,950,000	516		MWac
 Prime Mover	 Primary Energy Source	 Secondary Energy Source	
Photovoltaic, Tracking	Solar		

	Reported In Service Year 2024	Reported In Service Month 12
Transmission Linked CThree Year	Transmission Link Year	Transmission Link Month 10
2024	2024	
Planned / Actual Construction Start Date	Date Project Announced	
Reported Cost or Budget	Project Website	
Retirement Year	Retirement Month	

▼ EQUIPMENT, CONTRACTORS, PERMITTING

Wind Turbine OEM	Wind Turbine Model
Solar Panels OEM/Model	
# of Inverters	Inverter Type
Battery OEM/Model	
Contractor(s)	
Mortenson	
Operations and Maintenance Contractor	
Permits and Approvals Received/Pending	

▼ BALANCE OF PLANT DETAILS

Associated Network Upgrades Project Link	Related Transmission Project		
Windmill Switch - AJ Swope Switch 345 kV Line (Wallaby Switch Cut In for (POI)	91485		
Interconnecting Utility	Project Utility (Transmission-Linked)		
Oncor Electric Delivery	Oncor Electric Delivery		
Point of Interconnection			
Tap 345kV 23910 Windmill - 23906 AJ Swope			
Transmission-Linked Project Description			
Windmill Switch - AJ Swope Switch 345 kV Line : Wallaby Switch Cut In for Dawn Solar POI			
Cut in the Windmill Switch - AJ Swope Switch 345 kV Line to establish Wallaby Switch.			
Collector Substation(s) Description			
Number of Collector Substations	Collector Sub(s) Names	Collector Sub(s) Operating Voltage (kV)	Collector Sub(s) MVA
1		345	

Collector Sub(s) Total # of Transformers	Collector Sub(s) Total # of New Breakers	Collector Sub(s) Breakers - GIS/SF6	Collector Sub(s) Total Reported Cost
1	1		

Generation Tie Line Description

Number of Structures Estimated and Assume Steel Monopoles

Gen Tie Line Operating Voltage (kV)	Gen Tie Line Miles	Gen Tie Line Structure Type	Gen Tie Line # of Structures	Gen Tie Line Reported Cost
345	3.00	Steel Monopole	18	

INTERCONNECTION DETAILS

RTO, ISO or Regional Planning Group	NERC Regional Entity	End Use
Electric Reliability Council of Texas	MRO	Renewable

Interconnection Queue ID(s)	Project has an Interconnection Agreement	Date Interconnection Agreement Signed
20INR0255	☒	01-04-2021

RTO/ISO Feasibility Studies	RTO/ISO System Impact Studies
	SS Completed 05-17-2019

RTO/ISO Facility Studies	Interconnection Service Agreements
FIS Started 02-07-2019	IA executed 01-04-2021

Related Pipeline Project:	Related Fiber & Broadband Project Name:	Related Data Center Project:

PROJECT HISTORY and NEWS

Add Project News

Full Report	Grid Edit	Email	More	1 Generation Article
☐	^ Date of Article	Article Headline	Article Link	
☐	08-03-2022	BASF signs 250 MW of US wind, solar PPAs	Link	

Project History

December 2023: ISD remains the same per ERCOT queue

June 2023: In ERCOT's GIS monthly report(s), ISD in ERCOT changed to 12-31-2024.

August 2022: Added project news, PPA, moved to 12-2023 per EIA <https://renews.biz/79613/basf-signs-250mw-of-us-wind-solar-ppas/>

January 2022: Per ERCOT's December 2021 report, projected COD changed to 08-25-2023

January 2022: Per ERCOT's October 2021 report, projected COD changed to 05-31-2023

August 2021: Per ERCOT's July 2021 report, projected COD changed to 09-30-2022

July 2021: Annual ERCOT Status check per May 2021 report, confirmed study details and COD

September 2020: ISD still 2021 according to ERCOT

September 2019: Expanded project details per Chapter 313 filing <http://bit.ly/2V99Dyr>

March 2019: Added to database as per February 2019 ERCOT GIS report

UPDATES

Last C Three Update	Last Updated By	Reason For Last Update
12-06-2023	Luke Garlock	Status Update

You can view this data in your API or download it as a CSV file.

A Solution for Short or Long-Term Traders: TESLA Forecasting

In addition to understanding what power generation, transmission, and data center projects are coming online or retiring, it's essential to have an accurate, reliable forecast from trusted experts.

Whether you are trading day-ahead or financial transmission rights, you need these quality load forecasts to make the best decisions. While you could employ load forecasts from independent system operators (ISOs), those are not always especially accurate, as seen during [Winter Storm Heather in ERCOT](#).

There's a solution that's been providing insights in the power markets for over 30 years.

Generated with proprietary forecasting engines, TESLA Forecasting Solutions, recently acquired by Yes Energy, feed comprehensive weather, demographic, and calendar information into proprietary load forecast algorithms. The [TESLA solution](#) is an advanced regression model

that uses detailed demand and weather observation history and incorporates the latest near-term data to respond to changing weather patterns, extreme weather events, and holidays that might impact energy demand. It's an econometric model that allows you to know what to expect, even on less predictable days.

This is all backed by an expert team of seasoned analysts and engineers reviewing and maintaining every model, ensuring accurate and reliable forecasting.

With TESLA, you can be the first to know when weather events, holidays, or changing conditions will impact energy demand and get a leg up on the competition. You also get support from the analysts who manage the forecast to understand the *why* behind the forecast.

Alongside Yes Energy's real-time and comprehensive historical power market data, TESLA allows for end-to-end market analysis in a single platform so you can be prepared for even the most "unpredictable" days.

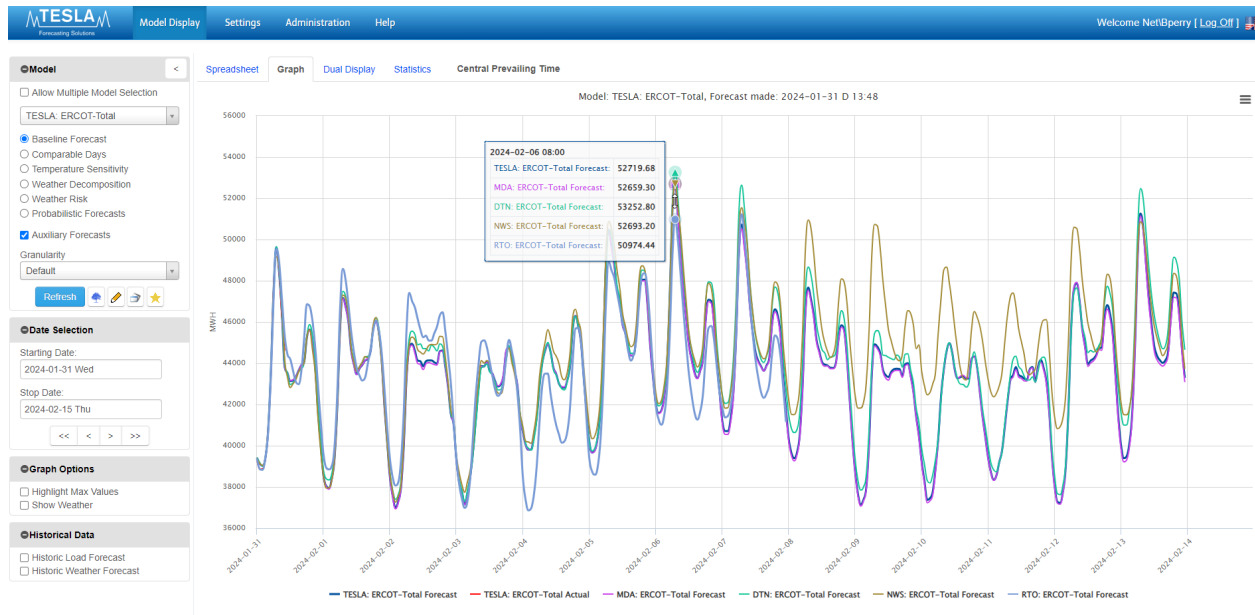
TESLA Use Case for Short-Term Traders

TESLA offers both short-term load forecasts (15-day forecasts) and long-term load forecasts (two years).

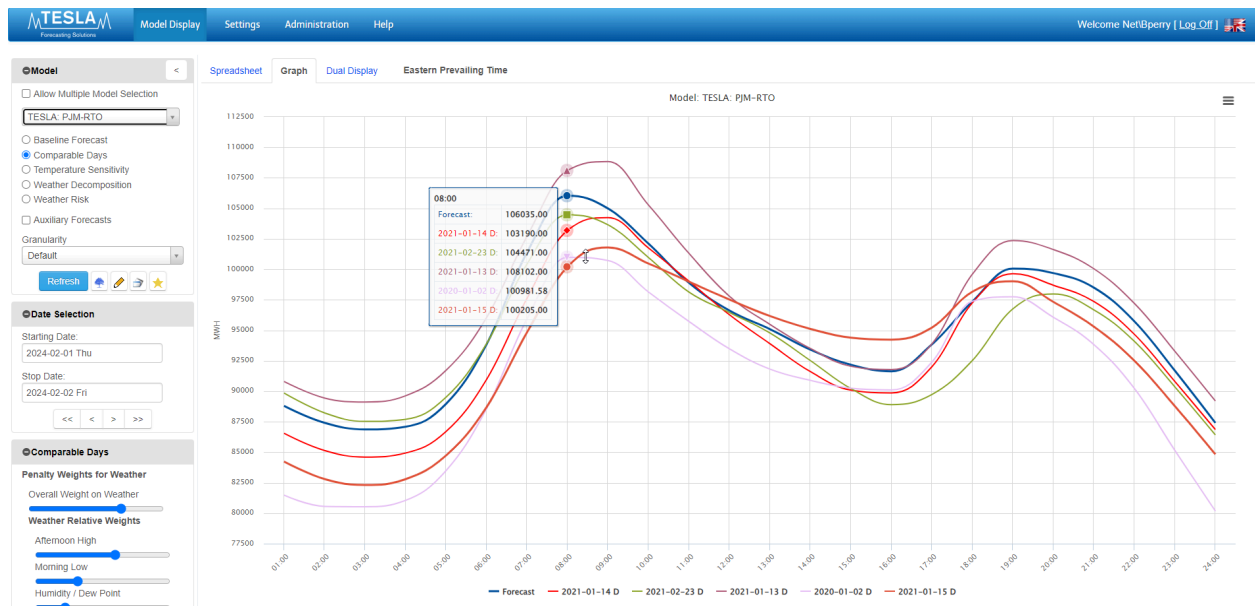
Real-time and bal-day traders can use TESLA's load forecast to keep a pulse on real-time market conditions and set expectations for the remainder of the day. Day-ahead traders can use TESLA's load forecast to know how tomorrow's demand forecast compares to today and whether they need to adjust their strategy.

Here's how you can use it.

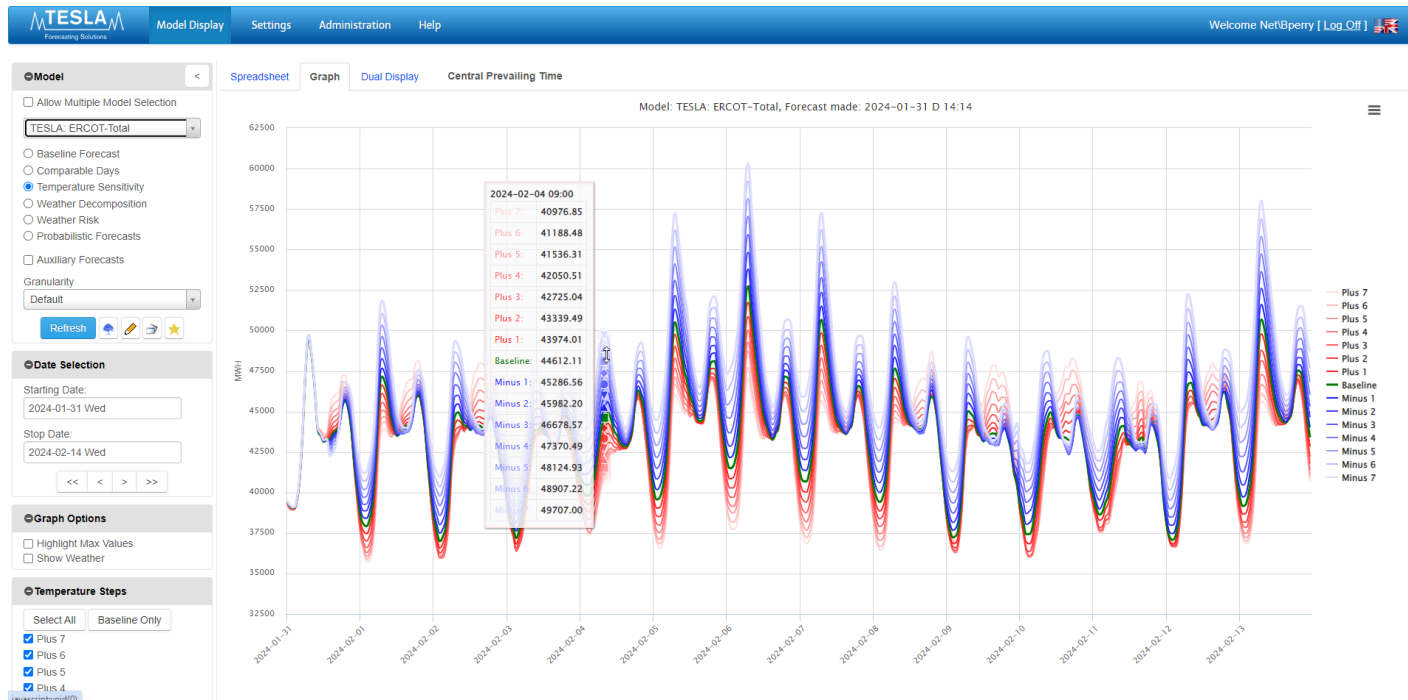
In addition to the primary blended TESLA forecast, you can display auxiliary load forecasts using weather data from private weather vendors Maxar (MDA) and DTN and public weather data from the National Weather Service alongside the public load forecast generated by each regional transmission organization (RTO). (See chart below.)



You can see another example below, this time of a like-day analysis with TESLA's Comparable Days tool. (See graph below.) TESLA's Comparable Days tool selects five dates from the past five years of demand based on weather and calendar criteria. Gain more confidence in TESLA's load current demand forecast by comparing it to days with similar weather and calendar characteristics.

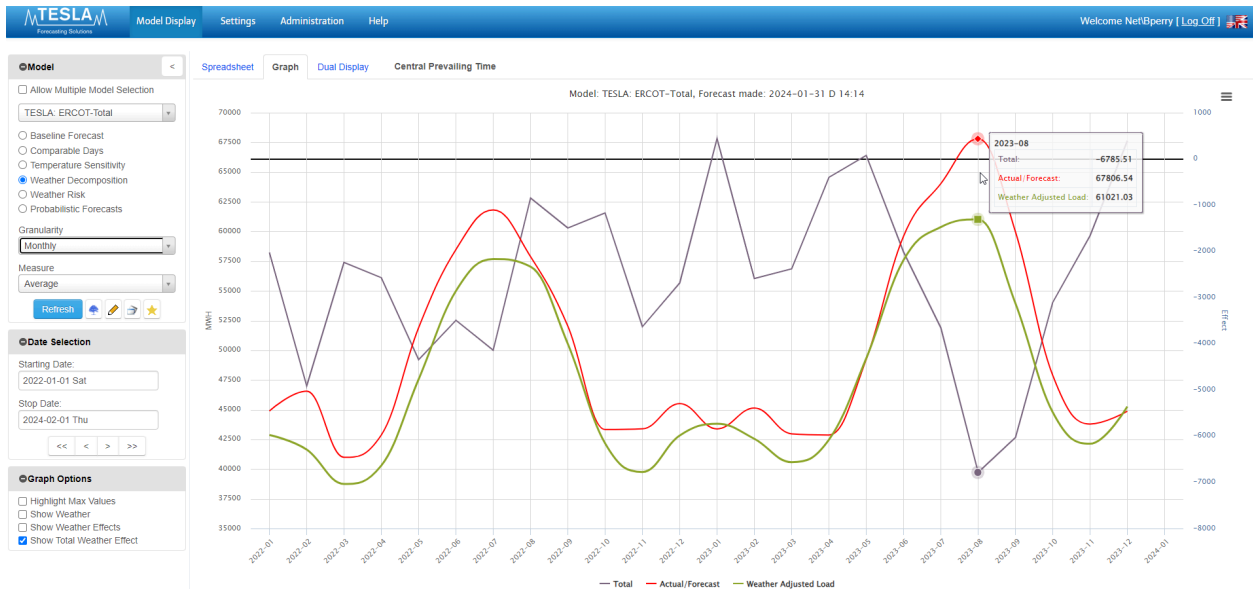


In addition, TESLA's Temperature Sensitivity tool generates load forecast scenarios under the assumption that the temperature forecast is higher or lower than forecast by meteorologists. You can quantify the impact of temperature forecast error on the demand forecast. (See graph below.)

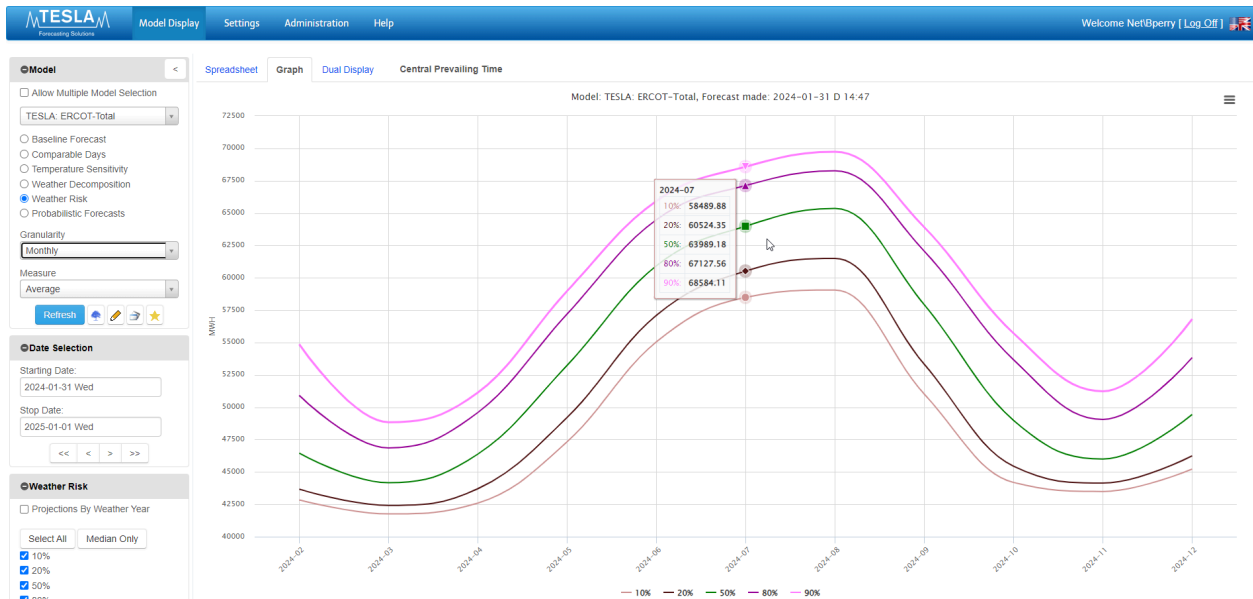


TESLA Use Case for Long-Term Traders

TESLA forecasting solutions can also help long-term traders to make more accurate predictions. You can aggregate weather-adjusted load by month using TESLA's Weather Decomposition tool to track longer-term trends in base load. You can also define past months in terms of their deviation from normal weather. (See the chart below.)



In addition, you can use TESLA's Weather Risk load scenario projection to assess the range of possibilities for load under typical, high-side, and low-side weather conditions. (See chart below.)



Conclusion

Whether you are a short or long-term trader, better energy market forecasting tools can help you make more informed decisions. Want to see exactly how [TESLA forecasts](#) or the [New Builds Dataset](#) can help your daily routine? [Request a demo.](#)