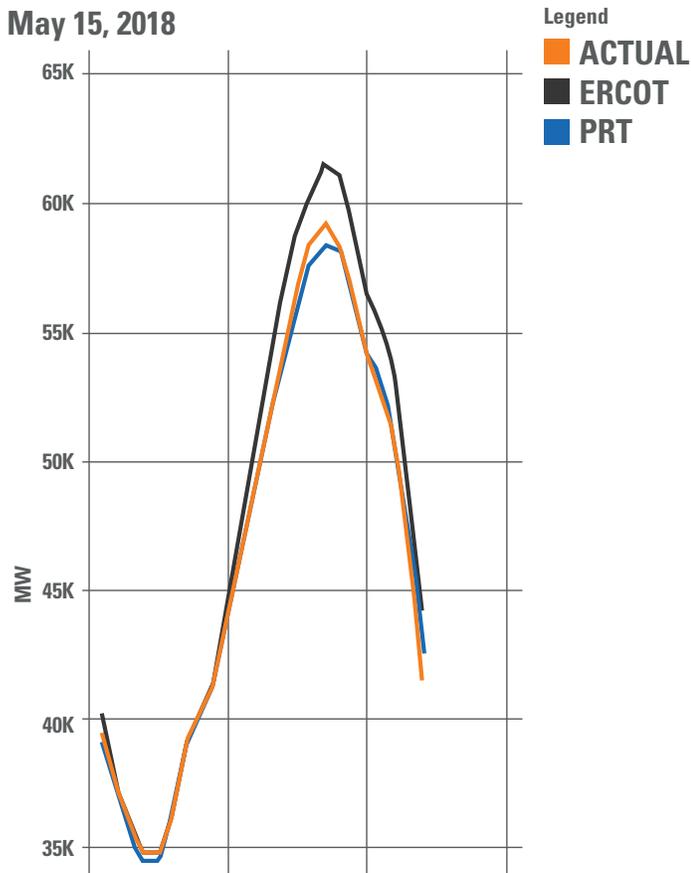




PREDICT ERCOT'S LOAD WITH PRT

How Utilities Use PRT to Make More Accurate Decisions



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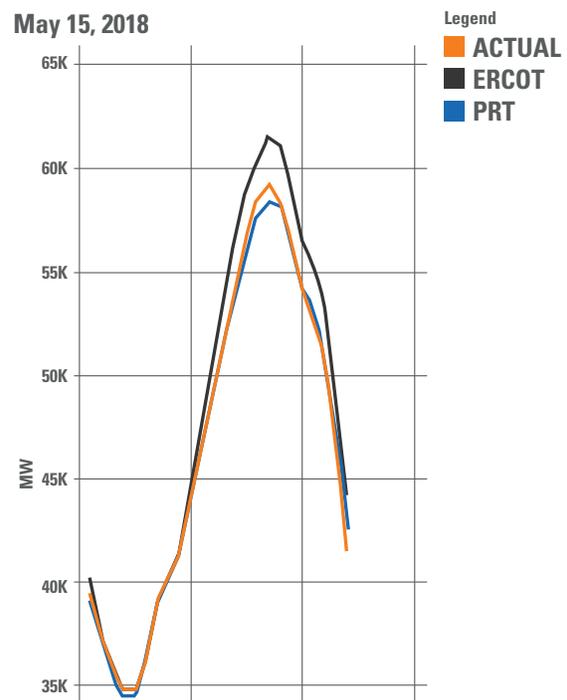
Case Study

Customer Challenge:

Uncertainty is often unavoidable in the electric utility space. Energy analysts, marketers and traders rely on forecasts to predict the amount of load they will need to produce and/or purchase. Fluctuating weather conditions generate unexpected results, which in turn, create volatility.

This was the case recently for a municipal electric utility in the ERCOT market. The utility regularly monitors ERCOT's load in synchrony with its own load. However, their market analysts know that ERCOT's load requirements can be far higher than what is forecasted on days when system reliability may be an issue. These days are usually characterized by very high prices in the DA and/or RT markets. If the analysts know ahead of time the days that ERCOT overreports load requirements, they can take advantage of these opportunities.

“*If the analysts know ahead of time the days that ERCOT overreports load requirements, they can take advantage of these opportunities.*”



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Customer Solution with PRT:

The utility uses products from Pattern Recognition Technologies (PRT), a company that provides load, price, wind, and solar forecasts based on highly adaptive and dynamic machine learning algorithms. PRT's highly accurate load forecasts are often much more reliable than what ERCOT provides.

On one recent day, PRT was within 600 MW of actual load, whereas ERCOT was over 2,000 MW higher. By comparing the ERCOT forecast to PRT, the market analysts are able to better identify in advance the days on which ERCOT reports artificially high load requirements for the sake of system reliability. This allows the utility to make more accurate decisions that saves it and its customers money.

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