

Day-ahead Net Load Forecasting with Machine Learning

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- Problem & Motivation
 - An accurate day-ahead net load forecast is critical for the power supplier to understand the demand and adjust the generation plan in time to avoid price volatility, and further, to have a better control of carbon-pollution
- Solution & Approach
 - We explore the history of net load versus weather and identify the key features
 - We combine statistical models and physical models to disaggregate the solar generation and “True load” (This is optional based on the data)
 - We use machine learning/deep learning framework to generate hour-by-hour net load a day in advance of prediction