

# Optimizing Probabilistic Techniques for Net Load Forecasting

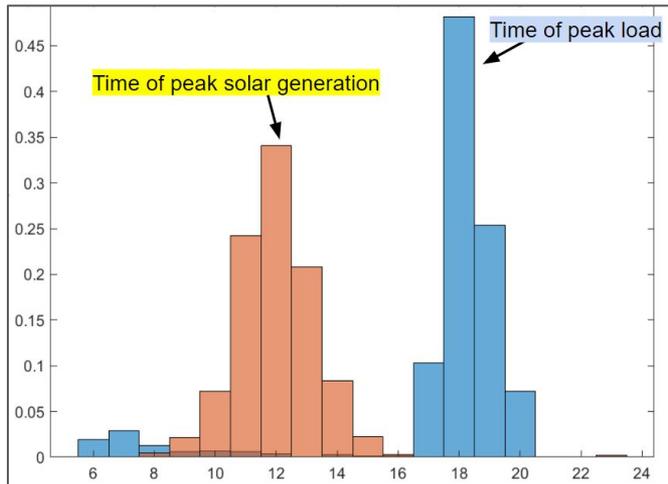
**Objective:** More accurately predict net load profiles with high solar energy production

## Probabilistic Inputs:

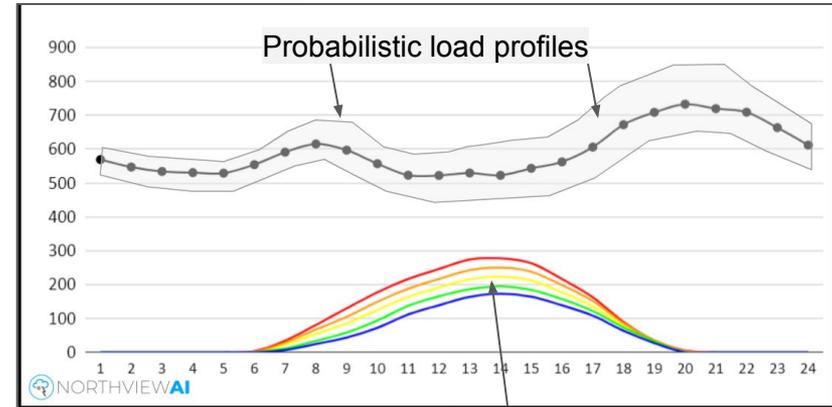
- Solar radiation
- Temperature
- Wind speed
- Snowfall
- Precipitation
- Cloud cover

## Methods:

- Virtually modelling solar energy production over load zones across multiple PV solar classes
- Load zone geospatial and population-weighted aggregation
- Data science: machine learning training classifies and self classification



## Outputs for Each Load Zone



**Probabilistic hourly solar energy production**

**Decision Support:** Enables robust scenario planning to improve grid reliability.