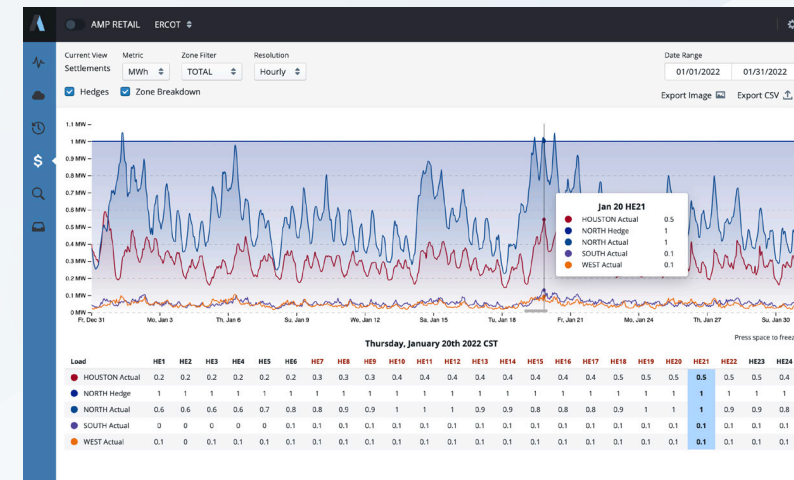# AMPERON

Best-in-Class Electricity Forecasting Solution

Amperon brings energy expertise and machine learning data science to grid forecasts – a combination never before seen in the market. Our forecast models incorporate the latest advances in machine learning and are based on high-resolution datasets to provide highly granular, real-time load forecasts.

The result? Unbeatable weather predictions, energy demand and renewable generation forecasts that can make your company millions.

Our Products

Amperon is more than a software vendor – we become part of your operations. Our seamless onboarding process means you will be set up in weeks – not months – and requires zero configuration on your end.

GRID-LEVEL FORECASTS

- 15-day grid-level demand forecast updated hourly using all public data
- Net demand forecasts, including solar and wind generation
- Custom weather scenarios and temperatures (visualized or via API) for more accurate trading decisions
- All forecasts and data available via a low-latency API

METER-LEVEL FORECASTS

- Short (15-day) and long (5-year) forecasts that use your portfolio, meter, or asset data
- Breakdown data by settlements, forward cost analysis, trade capture, net position reports, etc.
- Overlay your hedges to show your net position
- Stress test daily short-term peak weather scenarios
- Compare different simulated weather regimes to risk model

UNIQUE WEATHER PLATFORM

- Ensemble weather forecasts based on the UCS DICast© System
- Sampled at a custom 2.2km resolution of 20,000+ points
- Visualized 15 days min/max forecasts for all major cities
- Daily newsletters
- 1:1 access to our ex-NASA and ex-Wall Street, in-house Chief Meteorologist for additional support and analysis.

PEAK ALERTS

- Coincident peak alerts for ERCOT (4CP), PJM (5CP/NSPL), NYISO, ISO-NE
- Models incorporate historical peaks, load growth, and weather variables
- Reduce transmission costs
- Twice daily alerts (early morning and mid-morning)
- Customized thresholds
- Delivered via email or API

REGIONS: ERCOT, PJM, NYISO, ISO-NE, MISO, CAISO, SPP, WEIM, SERC, AESO, AEMO