

Asset-Level Solar Forecasts

Modernize your solar asset generation forecasts

As the demand for more sustainable energy solutions grows, the unpredictable nature of solar generation poses challenges for effective planning and decision-making. **Amperon's Asset-Level Solar Forecasts**, custom-generated for each asset using highly adaptable machine learning models, provide accurate and easily-applied insights into renewable generation.

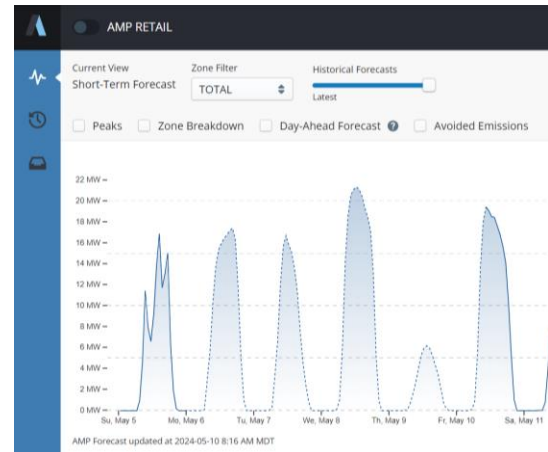
Asset Optimization

Harness the full potential of solar energy and while mitigating the challenges posed by its variability. With Amperon's asset-level solar forecasts, you can:

Confidently schedule bids: Reduce your exposure to volatility in real-time markets with improved scheduling for the day- or week-ahead.

Manage Generation: Maximize economic value and energy output by offsetting demand with dual solar/storage assets during high price peaks.

Analyze Carbon Impact: Quantify avoided emissions using localized carbon intensity data from WattTime.



Short-Term Forecasting & Energy Management Platform

Platform includes:

- 15-day generation forecasts
- Avoided carbon emissions
- Updated hourly
- Ability to view forecasts at the individual site-level or in aggregate
- Accuracy score for each hour, calculated based on an asset's nameplate capacity

Amperon's forecast:

- Leverages standard time-series data, site-specific information, weather data, and operational details
- Considers the full set of weather variables: temperature, radiation, cloud cover, precipitation, windspeed, snow
- Uses multiple ML models, dynamically weighted based on past performance.