

# Generate efficient wind and solar energy with high-accuracy forecasts

Improve operations, predict maintenance needs and reduce unplanned downtime with better forecast data

As environmental and climate change concerns grow, so does the need for accurate solar and wind forecasting. And with renewable energy sources greatly outpacing critical integration technologies, forecast reliability becomes difficult. Solutions that precisely forecast wind speed power output and solar energy power generation are more critical than ever.

Energy producers and providers are leading the way in the green energy movement, pursuing clean electrification and decarbonization while replacing fossil fuels with electricity from renewable sources. The IBM® Renewable Energy Cloud Service solution, part of the IBM Environmental Intelligence Suite, helps improve output and increase efficiency of wind and solar energy production.

IBM Renewable Energy Cloud Service allows asset managers to receive recommendations for when maintenance on wind turbines and solar panels is needed. It generates machine learning-led algorithms and high-accuracy power generation forecast models. You can rely on IBM Renewable Energy Cloud Service to provide:

- AI and advanced analytics
- Sophisticated instrumentation
- Best-in-class real-time weather data

Power system operators can increase the integration of renewables into the grid and optimize energy management, reliability and resiliency.



When you choose IBM Renewable Energy Cloud Service, you get endless integration, grid resiliency and reliability, optimized operational efficiencies and, most importantly, accuracy. With greater accuracy comes cost savings, as well as an overall better energy balance across wind turbines and solar panels.



Get a high-accuracy energy forecast.



Schedule maintenance at recommended times.



Increase the life of solar panels and wind turbines.



Alleviate unplanned downtime.

[Learn more](#) about IBM Renewable Energy Cloud Service.