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Spire Global Power Generation Forecasts Expand to ERCOT

Delivering AI-driven, satellite-powered renewable generation insights for the Texas grid

VIENNA, Va.--(BUSINESS WIRE)-- Spire Global, Inc. (NYSE: SPIR) (“Spire” or “the Company”), a leading global provider of satellite data, analytics and intelligence, announced the expansion of its AI-driven Power Generation Forecasts to the Electric Reliability Council of Texas (ERCOT) market. The expansion brings Spire’s satellite-enhanced wind and solar generation forecasts to one of the fastest-growing energy markets in the United States.

Powered by Spire’s High-Resolution Forecast model and advanced AI-driven modeling, the Power Generation Forecast delivers hourly power generation predictions for wind and solar. The forecasts integrate proprietary satellite data and advanced assimilation, including wind conditions at hub heights and surface solar radiation, to help energy traders, utilities, and grid operators anticipate fluctuations in renewable supply with greater accuracy. With this expansion, utilities, traders, grid operators, and renewable developers gain earlier visibility into shifts in wind and solar generation, helping manage volatility, optimize day-ahead and real-time bidding strategies, and maintain reliability during periods of tight grid conditions.

“Recent NERC assessments show rising, around-the-clock electricity demand from data centers alongside winter conditions that can strain generation resources,” said Shawn Mechelke, General Manager of Spire Weather & Climate. “Spire’s Power Generation Forecast uses AI and satellite-enhanced data to translate atmospheric dynamics into hour-by-hour, MW-level outlooks that customers can act on immediately. As new technologies, including AI, increase demand across the grid, we provide utilities, traders, and energy providers the clear, reliable power insight they need to operate with confidence.”

The Company's Power Generation Forecasts are already in use across key European markets, including France, Germany, the Netherlands, Austria, Hungary, and the United Kingdom. Extending coverage to ERCOT marks a step in Spire’s expansion into one of North America’s most dynamic renewable energy markets. Expanded to support multi-model comparisons, the Power Generation Forecast integrates Spire’s High-Resolution, Global Forecast, and AI models alongside external sources like IFS, giving analysts a unified environment to compare signals, build faster consensus, and identify uncertainty that informs bidding, hedging, and dispatch decisions.

“MW-level predictions show exactly how much electricity wind and solar resources are expected to generate each hour,” said Elliott Wobler, Senior Machine Learning Engineer at Spire. “By combining proprietary satellite observations with machine learning and multi-model inputs, we translate atmospheric uncertainty into clear power generation outlooks that traders and operators can use in real time – delivering a streamlined view of expected renewable production and enabling decisive action.”

Spire's suite of weather and climate solutions, including its High-Resolution Weather Forecasts, AI-driven weather forecasts, DeepVision™ platform, global weather forecasts, proprietary data sources like ocean winds and soil moisture, and additional atmospheric weather datasets, aims to serve customers across various industries, including energy, logistics, utilities, agriculture and more. Learn more about Spire's AI Weather Forecasting.

About Spire Global, Inc.

Spire (NYSE: SPIR) is a global provider of satellite data, analytics and intelligence, offering unique datasets and powerful insights about Earth so that organizations can make decisions with confidence in a rapidly changing world. Spire builds, owns, and operates a fully deployed satellite constellation that observes the Earth in real time using radio frequency technology. The data acquired by Spire's satellites provides global weather intelligence, ship and plane movements, and spoofing and jamming detection to better predict how their patterns impact economies, global security, business operations and the environment. Spire also offers Space as a Service solutions that empower customers to leverage its established infrastructure to put their business in space. Spire has offices across the U.S., Canada, UK, Luxembourg, and Germany. To learn more, visit spire.com.

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