

AI-Powered Renewable Energy Forecasting

Precision for Solar, Wind & Cold-Climate Operations

Boost energy performance, reduce imbalance costs, and anticipate weather-driven risks with next-generation hybrid forecasting.

About Us

Renewcast delivers high-accuracy renewable energy forecasting using a hybrid approach that combines physics-based models, advanced AI and digital twin technology.

Founded in 2020, Renewcast supports IPPs, utilities, traders and aggregators with scalable forecasting solutions tailored to improve operational efficiency and trading decisions.

What we do

- Day-ahead & intraday forecasting
- Digital twin modeling of wind & solar assets
- Turbine and panel performance analytics
- Market-area solar production forecasting
- Advanced weather-risk intelligence for operations & trading

Solar Forecasting Built for Trading

See production before the market does

Renewcast delivers **market-grade solar forecasts** designed for bidding, dispatch, and portfolio optimization, even under complex weather conditions.

Unique Features - Key Capabilities:

- ☀️ **Hybrid AI + physical modeling:** Higher accuracy across changing and complex weather conditions
- ☀️ **Digital Twin of solar plants:** Asset-level modeling including shading, degradation, and tracking logic
- ☀️ **Tracking System Stow-Aware Solar Forecasting:** Improves forecast during high-wind events by integrating wind-aware and stow-specific forecast models, reducing unexpected production drops.

Proven Performance:

- ☀️ Up to 40% improvement vs market benchmarks
- ☀️ Improved bidding strategy & trading margins
- ☀️ Fewer penalties, higher portfolio revenue

Wind Forecasting That Performs in Live Markets

Our wind forecasting combines **deep learning with digital twin asset modeling to deliver market-leading accuracy at scale.**

Highlights

- **5-7% nMAE** accuracy
- Real-time turbine performance evaluation
- Azure-based global scalability

Benefits

- Up to **40% reduction** in unbalancing costs
- Lower bidding risk
- Improved asset scheduling & optimization

Ice Forecasting (Advanced Feature)



Probabilistic forecasting of turbine icing, including persistence, short-term alerts, and SCADA-based loss estimation enabling safer operations and smarter market decisions in cold climates.

Why Energy Leaders Choose Renewcast

- ☞ Verified accuracy through **live benchmarking**
- ☞ Fast deployment for portfolios of any size
- ☞ Custom API & SCADA integration
- ☞ Dedicated data scientists & onboarding engineers
- ☞ European technology trusted by IPPs & traders
- ☞ Advanced weather-risk intelligence, including icing and extreme weather conditions

Ready for Smarter Forecasting?

Reduce risk. Improve market performance.
Maximize the value of your renewable energy portfolio across all weather conditions.

Contact Us

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RENEWCAST

Our Global Footprint

Assets & Managed Capacity by Country

Company Milestones

- On the market since 2023
- Consistently ranked among the top 5 forecasters worldwide
- Expected client savings: +€3–5/MWh
- **10.5 GW** of capacity under management
- **11 commercial clients** + growing pipeline
- **2× year-over-year growth**, scaling to 5× by year-end
- **Unparalleled Client Partnership:** risk-sharing pricing tied directly to forecast performance
- €4M funding secured



Europe, 9.7 GW, solar & wind



India, 850 MW, wind