

## About WindSim Accelerator

Fast and Accurate Wind Energy Resource estimates with WindSim Accelerator

# Unmatched Accuracy, Speed, and Ease for Wind Farm Optimization

## The Challenge: Delivering Accurate, Profitable Wind Projects Faster

Wind farm developers and operators face increasing pressure to improve project ROI while managing complex terrains, reducing operational costs (OPEX), and securing financing (CAPEX). Traditional wind modeling methods are slow, resource-intensive, and limited in accuracy—leading to costly inefficiencies and missed opportunities.

## The Solution: WindSim Accelerator—Where CFD Meets the Cloud

WindSim Accelerator transforms wind resource assessment by delivering rapid, highly accurate Computational Fluid Dynamics (CFD) simulations—directly from the cloud. No more lengthy desktop simulations or hardware constraints. With WindSim Accelerator, you get fast, scalable, and precise results, boosting project efficiency and profitability.

## Key Features & Benefits

- ✓ **Up to 75% Faster Pre-processing** – integrated ESRI elevation and roughness data enables faster model creation time and high data quality.
- ✓ **Up to 90% Faster Simulations** – Reduce project execution time significantly, enabling quicker decision-making.
- ✓ **Higher and more accurate AEP, Lower Costs** – Customers have reported up to 3-32% AEP gains (e.g., Fosen Project, Statkraft), leading to up to 1% financing cost reduction and up to 37% improved NPV.
- ✓ **Cloud-Powered Scalability** – Run multiple high-resolution projects simultaneously, improving workflow efficiency.
- ✓ **Built-in GIS & High-Resolution Data** – Seamless integration of ESRI datasets for precise terrain and forest modeling.

- ✓ Enhanced Accuracy in Complex Terrains – Advanced turbulence and stability modeling ensure superior predictions.
- ✓ No IT Hassle, Automatic Updates – Eliminate hardware dependencies and benefit from continuous enhancements.

## What Customers Say

📌 **Ove Undheim, Principal Wind Resource Analyst, Statkraft**

*"WindSim Accelerator's new features significantly **reduce desktop preprocessing time**. We can now handle **multiple projects simultaneously** with seamless GIS integration and automatic grid modeling."*

📌 **Eivind Myklebust Støvne, Wind Energy Advisor, Norconsult**

*"The pre-processing module in WindSim Accelerator has improved our **efficiency**. Previously, gathering and preparing roughness and height data took half a day. Now, it takes as little as **30 minutes**."*

📌 **Utku Turkeyilmaz, Senior Wind Resource Analyst, Fortum**

*"WindSim Accelerator is a game-changer—**faster, more reliable, and effortless to scale**."*

## Why Switch to WindSim Accelerator?

- ◆ Faster, data-driven decision-making – Reduce risk with high-accuracy modeling.
- ◆ Boost project success rates – Achieve better bankability and ROI with validated results.
- ◆ Seamless team collaboration – Work anytime, anywhere, across devices and teams.

Choose WindSim Accelerator as standalone software or opt for our Consulting team's full-service expertise.

## Ready to speed up your wind resource assessment?

🔗 Curious about WindSim Accelerator? [Request a quick, no-obligation demo of WindSim Accelerator.](#)

🔗 [Learn More about WindSim Accelerator.](#)

✉ Contact us at [sales@windsim.com](mailto:sales@windsim.com) or [consulting@windsim.com](mailto:consulting@windsim.com).

📢 Join us at stand C3-A70 at [WindEurope 2025](#) in Copenhagen (8–10 April) to see how WindSim advances wind resource assessments firsthand!