About ArcVera Renewables

ArcVera Renewables is a leading renewable energy technical consultancy providing finance-grade commercial and technical services for wind, solar and storage energy projects. ArcVera’s team comprises renewable energy experienced atmospheric scientists, engineers, and data analysts. The team leverages its advanced technical expertise and decades of global experience to provide trustworthy and accuracy-driven renewable energy project services.

ArcVera can be relied upon at any project stage. We work with our clients at the very earliest project phases – from understanding a prospective project resource, through design, technology evaluation and selection, financing, merger and acquisition, due diligence, construction, operations, and repowering. ArcVera’s mission is to provide its client with advantageous insights and answers for wind energy, solar energy, and battery storage hybrid projects.

ArcVera Power Performance Testing Services – Experience Matters

Experience matters because it results in quality and efficiency.

Very small variations in turbine performance meaningfully impact financial returns. Proven methodology guided by a technically experienced team translates to high quality outcomes and efficiencies, such as lowering the need for additional verification testing to settle results.

The ArcVera power performance testing team is committed to having experienced professionals on-site to install hardware, troubleshoot, and ensure high-quality results and customer service. Every ArcVera team member highly values communication and customer satisfaction in addition to providing premium services.
ArcVera Renewables has over 30 years of experience in power performance testing (PPT) services.

- Senior-level expertise long-engaged in PPT services
- Expertise that is directly involved in maintaining the IEC 61400-12-1 standard and translating the standard to inform ArcVera PPT services from project start to finish
- Providing PPT services to North America, Latin America and India markets

**JOHN BOSCHE**  
President and Principal Mechanical Engineer

John leads the ArcVera PPT Services Team. He is a co-founder of ArcVera Renewables and has worked in wind energy since 1990. John specializes in wind turbine design and testing, wind turbine technology review, power performance measurement, investigation of component failures and technical support for O&M. John has performed engineering or testing work on more than 50 different models of wind turbines from all major manufacturers. He represents the U.S. as an expert on the IEC committee that maintains the IEC 61400-12-1 standard for power performance testing and participates in the Technical Advisory Group that votes on U.S. positions regarding all IEC standards.

**MATTHEW CRAMER**  
Business Development Manager

Matthew co-founded Turbine Test Services LLC. (TTS), an accredited wind turbine testing company specializing in loads testing and power performance testing and analysis. Matthew has performed extensive data analysis, deployed tests, sourced hardware, and was involved in all technical aspects of testing. Matthew joined ArcVera in October 2020 specifically to do business development for ArcVera’s PPT group with client-focused services that are responsive to client needs and closely managed and implemented by senior-level engineers.

**CHRISTOPHER HENDERSON**  
Senior Engineer

Since 2004, Chris has developed extensive experience in a range of renewable energy technologies with a specialist focus on power performance testing. Chris’ work as a wind energy engineer, spans end-of-warranty inspections, failure analysis and investigation, technology due diligence, project management, power performance testing of utility-scale wind turbines, wind data analysis and energy estimates. Chris has led equipment installations in remote locations across North America, India, and Brazil.
Accreditations

ArcVera is one of the first US-based technical consultants to have achieved IECRE approval as a Renewable Energy Technical Laboratory. The approval involved a comprehensive audit by selected industry peers to ensure that we are faithfully adhering to all aspects of the IEC 61400-12-1 standard.

- Received a2La accreditation under ISO 17025 and power performance testing according to IEC 61400-12-1
- Independent Engineering Services Preferred Vendor for GE Renewable Energy and Siemens Gamesa Renewable Energy
- Independent Engineering Services approved by Vestas, GE, and Siemens Gamesa
- ArcVera is an active member of the IEC standards committee for the development of the IEC61400-50-3 Nacelle Mounted LiDAR Wind Measurement test standard that can be used for power performance testing without installation of a met mast

Scout Clean Energy
Heart of Texas Wind Project

The whole process from start to execution has been outstanding and ArcVera has been great to work with. There was only one minor weather-related-sensor issue at one of our three reference masts. This was much better than anticipated as the Scout Clean Energy Heart of Texas wind project sees various degrees of severe weather from ice storms to thunderstorms producing large hail. The ArcVera team kept me and our site personnel regularly updated on the progress of the tests with clear, concise and important information. This test went much smoother than expected and has been one of the best-executed PPT tests that I have ever been involved with.

—JIM SARDONIA
Director, Site Assessment Engineering
Scout Clean Energy

Our independent testing service goes beyond the numbers to provide valuable insights

ArcVera Renewables provides first-class consulting and technical services for wind and solar energy project developers, owners, and investors worldwide.

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LOCATIONS

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GHQ | COLORADO (Golden)
VERMONT (Burlington)
WASHINGTON (Bellingham)

LATIN AMERICA | BRAZIL
SÃO PAULO (São Paulo)

EUROPE & AFRICA
SOUTH AFRICA (Cape Town)

APAC & MIDDLE EAST
INDIA (Bangalore)