Wind energy
connected excellence in all we do
Overview

Wind energy services

Amec Foster Wheeler is an EPC firm providing integrated environmental, engineering, construction, and operational services. Our experienced in-house engineering staff offers services and support in all project areas including: geotechnical, civil (roads and foundations), collection system, substation, and transmission. To date, Amec Foster Wheeler has constructed over 2,000 MW of wind energy projects utilizing a variety of delivery approaches, including EPC, BOP and general contracting. Amec Foster Wheeler is well suited to support our clients’ needs and preferences, allowing us to provide the best overall solution.

Preliminary engineering services

- Site selection
- Geotechnical & site surveying
- Conceptual design - Roads, foundations, collection, substation and transmission
- Transportation studies, planning, and permitting

Project optimization services

- Coordination of environmental, engineering, equipment delivery and construction activities to mitigate schedule impacts
- Verify design meets latest standards as well as construction means and methods to improve quality, costs and schedule
Fully integrated and comprehensive wind services

Amec Foster Wheeler offers professional engineering services tailored to the size and complexity of any Owner’s project. We recognize every project is unique and develop our project approach to address your needs and objectives.

Engineering design services

- Civil
  - Roads
  - Crane pads
  - Foundations
- Electrical
  - Substation
  - Collection system
  - Transmission line
- O&M facilities design

Construction services

- Engineering, procurement, construction (EPC)
- Balance of plant (BOP)
- Construction project management
- Safety planning and training
- Environmental compliance management and inspection
- Constructibility reviews / Value engineering
- As-built drawings
Our installation approach

Wind turbine vendors

- General Electric
- Vestas
- Gamesa
- Nordex
- Acciona
- Siemens
- Senvion

<table>
<thead>
<tr>
<th>Wind</th>
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<tbody>
<tr>
<td>MW</td>
<td>Over 2,000</td>
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<tr>
<td>Projects</td>
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<tr>
<td>Contract</td>
<td>EPC/GC/BOP</td>
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<tr>
<td>Clients</td>
<td>Power Utilities/Developers</td>
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Installation approach

- Ability to quickly mobilize and react to client needs
- Experienced wind energy management staff
- Quality & safety focused execution
- Extensive coordination & planning
- Detailed EPC schedule
- Long-term craft employees
- Post-construction reclamation services
From site identification to operations

- Wind monitoring and data collection
- Wind resource evaluation
- Electrical grid integration and connection
- Land use and availability
- Geotechnical investigations
- Wind turbine selection
- Micrositing and optimization
- Civil works design (roads, crane pads, foundations)
- Electrical design (collector systems, substations, power lines, reactive power compensation, control and communications)
- Environmental impact assessment
- Community relations
- Liaison with electric utilities
- Transmission system impact assessments
- Obtaining approvals and permits
- Cost estimates
- Revenue projections
- Financial evaluation
- Negotiating energy sales agreements
- Due diligence reviews
- Determining greenhouse gas emission reduction credits
- Project management
- Procure equipment
- Site supervision
- Wind farm construction
- Commissioning
- Environmental and permit compliance
- Weather forecasting for crane operations
- Performance monitoring and reporting
- Fault diagnosis
- Regulatory compliance
- Short-term energy forecasting for power system operations
Our locations and recognitions

Amec Foster Wheeler in the US is a full-service, multi-discipline engineering, procurement and construction service provider with over 6,600 employees in more than 130 offices. The construction group is a merit shop self-performing industrial constructor and typically self-performs approximately 85% of the work.

Amec Foster Wheeler’s resources and skills for serving the wind energy markets and other project sectors in the Americas reside in various Amec Foster Wheeler offices in the US, Canada, and South America. Our objective is to provide value added services and full solution packages to power developers, utilities and equipment suppliers.

Our engineering systems and tools, cost estimating systems, and project management procedures are common across all of our offices, facilitating work-sharing and communications on consistent platforms.

ENR ranked #2 for wind power TOP 400
ENR ranked #4 for solar power TOP 400

Numbers based on ENR Sourcebook published October 2016
Safety

We follow a “No Compromise” safety culture and incorporate safety into every aspect of the project. The success of our safety program and culture is due to a belief that safety is behavioral based and therefore people based.

Our Safety Performance

Recordable Incident Rate: 0.54

Lost Time Rate: 0.05

EMR 0.53

2013
TECO Infinity Safety Award (Platinum)

Southern Company Triangle Safety Award

2014
Eagle Award for Excellence in Construction for RTI / TECO Warm Syngas Demo Plant, Mulberry, FL

2016
Award of Excellence in Construction for Fort Benning Dove Solar Project
About us
With annual revenues of US$7 billion and over 35,000 people in more than 55 countries, Amec Foster Wheeler designs, delivers and maintains strategic and complex assets for its customers across the world.

Amec Foster Wheeler shares are publicly traded on the London Stock Exchange and its American Depositary Shares are traded on the New York Stock Exchange. Both trade under the ticker AMFW.

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