

Tetra Tech is the first truly full-service wind energy environmental, engineering, and construction firm in the country. Within the last few years, Tetra Tech has worked on more than 200 wind projects in 34 states, totaling 15,000 MW. Of that, over 12,000 MW of wind generation is in operation or scheduled for construction. We provide support to 20 of the top 25 wind power project developers and owners in the U.S.

Tetra Tech is the number one provider of front end services to the U.S. wind industry. We also have extensive experience in wind construction. We are currently providing or have provided construction services to clients on 18 projects, totaling more than 1,500 MW.

Our diverse project experience offers extraordinary insight into the unique issues associated with wind projects. Our depth of knowledge gives us the ability to respond to each unique project, whatever the challenge.

## Services

Tetra Tech provides a full spectrum of wind energy services – from initial siting through resource studies, permitting, engineering, procurement, construction, operations, and even retrofitting of turbines. The Tetra Tech family of companies is among the largest and most geographically diverse wind energy service providers, with the broadest technical and project experience, financial stability, and a depth of resources not found in any other firm.

## PERFORMANCE HIGHLIGHTS

- Experience from more than 200 wind projects in 34 states, totaling more than 15,000 MW of wind generation; 12,000 MW is in operation or scheduled for construction
- Providing support to 20 of the top 25 wind power project developers and owners in the U.S.
- Tetra Tech staff have constructed or are currently working on construction projects for 18 clients, totaling over 1,500 MW
- #1 provider of front-end services to the U.S. wind industry – we have provided siting, environmental, and engineering services on more than 160 projects
- Depth and breadth of resources with more than 8,500 employees in 275 offices worldwide
- Financial strength to stand behind large engineer, procure, and construct (EPC), balance of plant (BOP), and other construction projects, with \$2.1 billion in revenues

## Development

### Environmental

- Due Diligence
- Preliminary Siting
- GIS Applications and Data Management
- Constraint Mapping
- Critical Issues Analysis
- Biological Resource Studies
- Cultural Resource Studies
- Noise Assessments
- Shadow Flicker Assessments
- Visual Impact Assessments
- Environmental Review and Permitting
- NEPA Program Management
- Public Involvement

### Engineering

- Conceptual Design
- Detailed Design - Roads, Foundations, Electrical
- Geotechnical and Seismic Studies and Design
- Surveying
  - ALTA Maps
  - Record of Surveys
  - Easement and Legal Descriptions
  - Field Surveys
  - Aerial Topography
- Transportation Studies, Planning, and Permitting
- Value Engineering

### Construction

- Constructability Review
- Conceptual and Final Budgets and Schedules

## Construction

### Environmental

- Environmental Compliance Management and Inspection

### Engineering

- Construction Plans
- Engineering Submittal Reviews
- Field Services
- Response to Requests for Information
- Field Change Requests
- Management of Construction and Design Changes
- Review of Subcontractor and Vendor Submittals
- As-Built Drawings
- Construction Field Staking

### Construction

- EPC
- BOP
- Procurement
- Project Management
- Construction Management
- Safety Planning and Training

## Operation

### Environmental

- Post-Construction Environmental Services
- Monitoring and Compliance

### Engineering

- Project Closeout
- Supplemental Engineering

### Construction

- Maintenance Support
- Testing
- Retrofit and Upgrade



TETRA TECH

At Tetra Tech, we are committed to providing our clients with a complete and integrated range of services from some of the most experienced wind experts in the industry. Because of our broad corporate and staff experience in the construction of wind farms, our early stage siting, environmental, permitting, and engineering work have a uniquely practical focus. Choosing Tetra Tech ensures early consideration of constructability, respect for in-service schedules, and an appreciation for overall project economics. Our integrated team of environmental, engineering, and construction professionals helps our clients achieve their desired development and operational objectives. Our goal is to help our clients cost-effectively develop, install, and maintain successful wind energy projects that generate an ongoing return on investment.



**We are proud to be involved in industry-leading projects, including the following:**

- **American Wind Energy Association (AWEA) Wind Energy Siting Handbook — the industry guide to assist wind energy developers in addressing regulatory and environmental issues**
- **Horizon/Iberdrola Renewable (formerly PPM Energy) Maple Ridge Wind Farm — the largest operating wind farm east of the Mississippi River**
- **Bluewater Energy Delaware Offshore Wind Project — the first offshore wind project with a power purchase agreement with a major utility**
- **T. Boone Pickens Mesa Wind Project — one of the largest wind projects ever proposed in the U.S.**
- **FPL Energy Horse Hollow Wind Project — the largest operating wind farm in the U.S.**

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### Representative Clients and Projects

Tetra Tech has worked on more than 200 wind projects. Some of our selected project experience is below:

- Flat Rock Wind Power, LLC, Maple Ridge Wind Farm, New York
- Willow Creek Energy LLC, Willow Creek Winds Project, Oregon
- Kodiak Electric Association, Inc., Pillar Mountain Wind Project, Alaska
- Freedom Wind Energy, LLC/Babcock and Brown, LLC, Rock Run Wind Farm, Pennsylvania
- Iberdrola USA, Jordanville Wind Farm, New York
- Noble Environmental Power, Noble Clinton Wind Park, New York
- FPL Energy, Horse Hollow Wind Project, Texas
- FPL Energy, Various Projects, North Dakota
- Minnesota Power, Taconite Ridge I Wind Energy Center, Minnesota
- Castle & Cooke, Inc., Lanai Wind Farm, Hawaii
- Bluewater Wind LLC, Bluewater Delaware Offshore Wind Farm, Delaware
- PacifiCorp, Rolling Hills, Seven Mile Hill and Glenrock Wind Farms, Wyoming
- Granite Energy, LLC, Granite Mountain Wind Farm, California
- Northwest Wind Partners (enXco/Ross Management JV), Northwest Wind Partners Wind Energy Projects, Washington