



TETRA TECH

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Renewable Energy Services

Environmental, engineering, and construction services for all phases of energy projects

WATER

NATURAL RESOURCES

ENVIRONMENT

INFRASTRUCTURE

ENERGY



Renewable Energy Services

As a result of the ever-increasing demand for energy, volatile fuel prices, and increasing climate change concerns, the need for sustainable energy solutions from renewable sources has skyrocketed. Tetra Tech is at the forefront of this market and has experienced remarkable growth as a result of our integrated environmental, engineering, and construction approach.

Tetra Tech provides comprehensive and fully integrated environmental, engineering, and construction services throughout all phases of energy projects—from the planning and development phase through licensing, engineering, construction, operations, and maintenance. Health and Safety is not just another program at Tetra Tech—it is integral to our culture and incorporated into all facets of our work.



Tetra Tech has the financial strength to stand behind large engineer, procure, and construct (EPC) Balance of Plant (BOP) and other construction projects.

procurement, construction, operations, and even retrofitting turbines—is provided by some of the most experienced wind energy experts in the industry.

SOLAR

Our staff has experience in siting, permitting, and designing over 100 solar projects in North America, comprising over half a million acres of proposed and implemented development. Tetra Tech partners with solar energy developers to quickly and cost-effectively evaluate potential sites; successfully negotiates the regulatory environment; designs financeable, highly productive facilities; and ensures construction is completed within the agreed timeframe and in compliance with applicable delivery and performance requirements.

WIND

Tetra Tech is the first truly full-service wind energy environmental, engineering, and construction firm in North America. Within the last few years, we have worked on approximately 500 wind projects worldwide, with over 25,000 MW presently in operation or under construction. Tetra Tech provides support to 20 of the top 25 wind power project developers and owners in North America. With extensive experience in the wind construction market, we have provided construction services to 30 wind projects since 2007, totalling over 3,000 MW and nearly \$1 billion in revenue. Our complete and integrated range of services — from initial siting through resource studies, permitting, engineering,

HYDROPOWER

Tetra Tech offers decades of experience in development services, preliminary studies, detailed design, and construction for hydroelectric power facilities in North America and abroad. From site identification, Federal Energy Regulatory Commission (FERC) licensing and relicensing, provincial permitting, cost and risk analysis, market assessment, and strategic planning to dam safety, environmental impact study, productivity analysis, and site optimization, Tetra Tech has all of the in-house skills needed to support development of a new or repowered hydro facility. We also are leaders in detailed design: performance specifications; detailed structural, electrical, mechanical, and automated control system (SCADA) engineering; 3D design

In the past 10 years, we have worked on more than 1,000 power projects, including 500 wind projects and 100 solar projects, across North America and around the world.

We have provided services to independent power producers, utilities, merchant transmission companies, banks, and governmental agencies on a wide range of renewable projects in nearly all U.S. states and Canadian provinces and territories. We offer proven processes, consistently high quality, and the financial strength to stand behind large projects. Tetra Tech's depth of resources and geographic coverage ensure international competence and local delivery.

Tetra Tech is committed to environmental stewardship and providing our clients with the most professional and highest quality service available. We welcome the opportunity to assist you with your renewable energy projects and look forward to helping ensure a more stable energy future.

1,000

Number of power projects that Tetra Tech has worked on in the last 10 years.

500

Number of wind projects that Tetra Tech has worked on worldwide. We've also worked on more than 65 solar projects.

25,000

Total MW wind generation that Tetra Tech has supported that is now in operation or scheduled for construction.

and modeling; and specialized electricity generation study (short circuit, MALT, coordination, flicker). Finally, Tetra Tech offers construction services at new, repowered, and refurbished hydroelectric plants – from construction management to self-performed turnkey design-build projects.

GEOTHERMAL

Our geothermal industry experts have worked on some of the earliest development projects in North America. We continue to provide environmental, design, and construction support for the expanding utility-scale geothermal generation and smaller scale combined heat and power plant geothermal solutions. Our work keeps us abreast of the latest policies, regulations, practices, technologies, and trends in the industry. Tetra Tech has the financial strength and expertise to assist with any size geothermal project.

BIOFUELS

Our staff has extensive experience working with a wide variety of biofuel projects, including ethanol, biodiesel, biorefineries, hydrogen from biosolids, soy, palm, tallow, algae, and cellulosic. Our services include technology selection, feasibility studies, preparation of financial assistance documents, environmental licensing, conceptual and detailed design engineering, Balance of Plant (BOP) engineering, cost estimating, construction services, and retrofit studies. Plants have ranged from 5 mm gal/yr to 40 mm gal/yr, and have been located across North America.

BIOMASS

Tetra Tech has experience with many biomass power generation technologies, including methane digesters, conventional boilers, circulating fluidized bed, and gasification using various of fuels for either stand-alone biomass plants or co-firing biomass with fossil fuels. We have extensive experience with government land managers, landfill operators, and dairy farmers, as well as many large private wood products and other fiber companies that give us an excellent understanding of the biomass market.

OCEAN

The frontiers of energy development are being redefined by technologies that can harness the power of the marine environment to produce wind, wave, current, and tidal-generated electricity. As a premier energy and water company with extensive experience providing a full array of environmental, marine mapping and geophysical survey, engineering, construction, and operations and maintenance services, Tetra Tech can provide turnkey services to meet the needs of the ocean energy industry. We are supporting offshore renewable energy projects in 10 jurisdictions along the Atlantic, Gulf, and Pacific coasts and in the Great Lakes of North America.

Tetra Tech is a leading provider of consulting, engineering, program management, construction, and technical services addressing the resource management and infrastructure markets. The Company supports government and commercial clients by providing innovative solutions focused on water, the environment, and energy. With approximately 13,000 employees worldwide, Tetra Tech's capabilities span the entire project life cycle.

SELECTED RENEWABLE ENERGY SERVICES

Development		Construction		Operation	
Environmental		Environmental		Environmental	
<ul style="list-style-type: none"> • Due Diligence • Preliminary Siting • Studies and Assessments • Cultural Resources • Visual Resources • Noise 	<ul style="list-style-type: none"> • Permitting and Licensing • Geographic Information Systems (GIS) Applications and Data Management • Public Involvement 	<ul style="list-style-type: none"> • Compliance Planning • Compliance Training 	<ul style="list-style-type: none"> • Monitoring and Inspection 	<ul style="list-style-type: none"> • Environmental Monitoring and Restoration 	<ul style="list-style-type: none"> • Post-Construction • Monitoring and Compliance
Engineering		Engineering		Engineering	
<ul style="list-style-type: none"> • Transportation Planning • Technology Evaluation/Selection 	<ul style="list-style-type: none"> • Design • Surveying • Value Engineering • Generation Connection 	<ul style="list-style-type: none"> • Construction Drawings • Engineering Submittal Reviews • Record Drawings 	<ul style="list-style-type: none"> • Field Change Requests • Response to Requests for Information 	<ul style="list-style-type: none"> • Project Closeout 	<ul style="list-style-type: none"> • Supplemental Engineering
Construction		Construction		Construction	
<ul style="list-style-type: none"> • Constructability Review 	<ul style="list-style-type: none"> • Budgets and Schedules 	<ul style="list-style-type: none"> • Engineer, Procure, and Construct (EPC) • Design-Build • Balance of Plant (BOP) • Procurement 	<ul style="list-style-type: none"> • Project Management • Construction Management • Safety Planning and Training 	<ul style="list-style-type: none"> • Maintenance Support • Testing 	<ul style="list-style-type: none"> • Retrofit and Upgrade

Company Facts and Rankings



20/25

Tetra Tech supports 20 of the top 25 wind power project of developers and owners in North America

- Annual revenue: \$2.2 billion (FY2010)
- NASDAQ Symbol: TTEK
- 13,000 employees
- 330 offices worldwide



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