

ENERGYWORKS WINDPOWER PROFESSIONAL SERVICES

STATEMENT OF QUALIFICATIONS

Wind and Solar Power

- *Technical Development Support,*
- *Owners Representative/Engineer,*
 - *Project Management,*
 - *Site Management*

Fall 2014

Contact: George Emsurak



Introduction

EnergyWorks was established by Bechtel Enterprises, Inc. and PacifiCorp in 1995 to develop, own and operate energy facilities in response to growing and evolving energy and infrastructure needs in the United States and around the world. Fuels of interest included conventional sources, liquid and natural gas, and renewable sources such as wind and biomass. In 1999, the company was purchased by Iberdrola, S.A., one of Europe's leading electric utilities. As an Iberdrola subsidiary, EnergyWorks expanded to include operations in six countries, with commercial and industrial energy infrastructure investments totaling nearly \$300 million.

In mid-year 2001, EnergyWorks senior management negotiated a buyout of operations in the United States and Canada. EnergyWorks North America was then formed as a Maryland limited liability company and continues to this date, developing and owning energy infrastructure facilities. EnergyWorks North America remains a privately held company.

To further develop our focus on renewable energy, EnergyWorks WindPower, a Delaware limited liability company, was formed in 2009. We have had the good fortune to work with a number of customers who have come to appreciate our efforts to protect their interests.

We have grown and now leverage our experiences and core competency to provide:

1. Technical and contracts support during "Late Phase Development" of a project,
2. Highly specialized technical solutions for power quality and power control at the Point Of Interconnection (POI),
3. Owner's engineer services,
4. Construction management services,
5. Owners representative services, and
6. Project management services.

We have provided services to small and large developers and for a number of the major wind turbine suppliers.

Key members of the EnergyWorks WindPower team are noted in **Attachment A**. These individuals have been with EnergyWorks for 10-years and form our nucleus. Additionally, we have a number of highly skilled and qualified associates to support our workload and as we have promised since our inception, we will deliver. Our "word of mouth" reputation depends on it.

Since our inaugural Costa Rican wind projects in 1996, EnergyWorks has quietly expanded its presence in the wind industry and has managed project execution in the US, Canada and abroad, ranging in size from 300 MW, utility grade "power plants" to relatively small, 7MW municipality scale facilities. EnergyWorks has played a key role in technical development and project execution for over 40 wind projects and 3,675 MW of wind power



generation capacity and over 500MW of solar power. Refer to **Attachment B** for a complete breakdown of these projects.

Recent efforts, indicative of our current offering, include the following highlighted projects:

1. 166 MW wind farm, Siemens WTGs – Site Management – Kansas
2. Turn-Key contract for substation upgrade, capacitor banks and control system upgrades in an existing 283 MW wind farm – South Texas
3. 264 MW wind farm, Siemens WTGs, blade repair site manager, commissioning support, electrical engineering support – San Diego, California
4. 101 MW wind farm, Siemens WTGs – Site Management- Puerto Rico
5. 99 MW wind farm, Vestas WTGs, Site Management and electrical construction management – New Hampshire
6. 51 MW wind farm, GE WTGs, Site Management, Minnesota
7. 40 MW wind farm, GE WTGs, Site Management, Montana
8. 201 MW wind farm, Mitsubishi WTGs, Construction and Commissioning Management, South Texas
9. 15 MW wind farm, Mitsubishi WTGs, Pre-Mob site management support, NM
10. 120 MW wind farm, Siemens WTGs, Project and Site Management – Chile

The EnergyWorks team is diverse; we have worked with many of the wind turbine suppliers including General Electric, Vestas, Gamesa, Mitsubishi, Siemens, Nordex, Suzlon, NEG-Micon (now integrated into Vestas) and Acciona. The team has worked in many areas of the world, including North America, Latin America and China, and can support any individual stage of a wind project venture or provide support to a project venture from development and implementation to operations and maintenance.

EnergyWorks expertise has carried over into the Solar Industry. Solar Industry activity includes the following highlighted project initiatives:

1. 280 MW solar project, Mojave Solar Project, Concentrating Solar Power (CSP) technology, Construction Management, Barstow, California
2. 250 MW solar project, Mount Signal Photo Voltaic (PV) technology, Construction Management, Calexico, California.
3. Prior to 2013, 3 MW solar project, Site Manager, Peach Glen, Pennsylvania.

Individual and Project Experience

The experience of key EW team members, including past project involvement are described in the following attachments.

Attachment A – The Management Team – Principles – Summary

Attachment B – Project Experience – Summary

Attachment C – Wind Project Case Study



Attachment A – The Management Team

GEORGE EMSURAK – *President and Owner*

Mr. Emsurak is responsible for the technical, engineering, construction and operations of the EnergyWorks Group of Companies. Mr. Emsurak has 30 years of project development, construction, management, and operations experience and has held senior positions with major construction and operating companies, including, Bechtel Corporation, John Brown E&C, Gulf Oil Corporation and the United States Navy Civil Engineers Corps. Mr. Emsurak has extensive experience in the design, development, construction and operation of gas-fired, liquid-fired, and renewable energy projects. He holds two Bachelor of Science degrees in Petroleum Engineering and Mineral Engineering from Pennsylvania State University. He is hands on and has been involved in many of the EnergyWorks Wind projects on our experience detail, **Attachment B**.

JAMES WEIGLEY - *Chief Financial Officer*

Mr. Weigley is responsible for the overall financial management of the company, including planning and budgeting. Mr. Weigley is responsible for the overall financial management of the company, including planning and budgeting. Mr. Weigley has over 30 years of experience as in various senior financial management positions for domestic and international ventures. His experience includes ten years in the power segment with EnergyWorks (Bechtel/PacifiCorp) and Parsons/Gilbert Associates. Mr. Weigley began his career as a CPA working with KPMG. His responsibilities and area of expertise include managing and organizing business processes, system implementations and business combinations. Mr. Weigley holds a Bachelor of Science degree in Accounting from Susquehanna University in Selinsgrove, Pennsylvania.

JOHN MORRIS – *Site Management*

Mr. Morris is responsible for site management and has served in this capacity, as site manager on large and high profile construction projects throughout the US, Canada, the Caribbean, and South America since 2004. Prior to joining EnergyWorks in 2004, he held key positions in project and construction management both domestically and internationally in heavy industrial and power facilities. Mr. Morris is bi-lingual, fluent in English and Spanish.

JUAN CARLOS SCHIAVON URIEGAS – *Manager of Electrical Engineering and Operations*

Mr. Uriegas is responsible for engineering, construction and operations. He has contributed significantly to solving a multitude of electrical interconnect power quality and control challenges. He brings a broad understanding of electrical, mechanical and controls systems. He holds a Master degree in Electrical power Systems Analysis and Bachelors of Science degree in Mechanical and Electrical Engineering, both at the National Autonomous University of Mexico. Prior to joining EnergyWorks, he held the position of chief electrical engineer for IBERDROLA in Mexico over its fleet of combined cycle power plants. Mr. Uriegas is bi-lingual, fluent in Spanish and English.



DANIEL BROWN – *Construction Management*

Mr. Brown is responsible for the management of construction projects. He has proven valuable in not only resolving a multitude of construction related challenges, but also in Landowner, Utility, and Contractor relations. He brings a wide range of experience in industrial construction, process applications and capital project management to the team. Drawing from experiences in nuclear, petro-chemical and all aspects of conventional power generation as well as numerous other industries, Mr Brown has brought a wide range of management and problem solving skills to our clients and the other members of the EnergyWorks team.

Project Managers, Site Managers and Specialists – To be assigned based on the specific needs of the project.

Inquiries, please contact:
George Emsurak, Owner
Office: 410-349-2001 extension 101
Mobile: 443-831-4217
E-Mail: gpe@energyworks.com

Attachment B – Project Experience - Summary

Project Implementation

EnergyWorks involvement in Wind and Solar projects is extensive and continues to grow. The following provides a listing of specific wind and solar project involvement.

Wind Power Projects

- 51 MWe wind farm (GE turbines), Lakes Wind Farm, Site Management, Minnesota
- 99 MWe wind farm (Vestas turbines), Granite Reliable WindPark, Site Management and electrical construction management – New Hampshire
- 101 MWe wind farm (Siemens turbines), Santa Isabel Wind Project, Site Management- Puerto Rico
- 264 MWe wind farm (Siemens turbines), blade repair site manager, commissioning support, electrical engineering support – San Diego, California
- Turn-Key contract for substation upgrade, capacitor banks and control system upgrades in an existing 283 MW wind farm – South Texas
- 166 MWe wind farm (Siemens turbines), Cimarron I Wind Project, Site Management – Kansas
- 40 MWe wind farm (GE turbines), Spion Kop Wind Project, Site Management- Judith Basin County, Montana
- 201 MWe wind farm (Mitsubishi turbines), Los Vientos Wind Project, Construction and Commissioning Management - Sebastian Texas
- 150 MWe (Siemens turbines), Spring Valley Wind Project, Site management – Nevada
- 189 MWe (Acciona turbines), Rim Rock Wind Project, Project and Site Management – Kevin, Montana
- 120 MWe (Siemens turbines), El Arrayan Wind Project – Pre-Construction, engineering, Project and Site Management – Chile
- 33 MWe (Suzlon turbines), Baicheng Wind Farm - Project Management – China
- 50 MWe (GE turbines), Michigan Wind 2 Wind Farm, Construction Management, electrical – Michigan

- 50 MWe (Siemens turbines) Record Hill Wind Project, Main, Site Management, pre-construction electrical engineer and PM Development support including leading the BOP Contractor selection process.
- 99 MWe (Vestas turbines) Granite Reliable Wind Project, New Hampshire, Late Phase Development Support, Project and Site Management
- 138 MWe (Siemens turbines) St. Joseph Wind Farm, Manitoba, Canada, Late Phase Development Support, Site Management, Owner's Electrical Engineering support.
- 20 MWe (Nordex turbines) Shirley Wind Project, Wisconsin, Owner Representative/Engineer (Electrical), Late Phase Development, Site Management
- 101 MWe (Siemens turbines), Hatchett Ridge Wind Farm, California, Site Management
- 50 MWe wind farm, Siemens WTG – Project Schedule Support – New Brunswick, Canada
- 283 MWe (Mitsubishi turbines) Gulf Winds I Wind Farm, Corpus Christi, Texas, Project Management and Site Management
- 120 MWe (GE turbines) Great Plains Wind Farm, Gruber, Texas, Project and Site Management
- 69 MWe (GE turbines) Michigan Thumb Wind Farm, Bad Axe, Michigan, Site Management
- 60 MWe (GE turbines) Wessington Springs Wind Farm, South Dakota, Site Management
- 60 MWe (GE turbines) Butler Ridge Wind Farm, Wisconsin, Site Management
- 83 MWe (GAMESA turbines) Allegheny Ridge II, Altoona, Pa, Site Management
- 78 MWe (Gamesa turbines) GSG Wind, West Brooklyn, IL, Project Management
- 50 MWe (Gamesa turbines) Mendota Wind Farm, Mendota, IL, Project Management
- Multiple NY Wind farms in upstate New York (GE turbines), Site Management
- 300 MWe (Mitsubishi and GE turbines) Cedar Creek Wind Farm, Gruver, Colorado, Project Management and Site Management
- 63 MWe (Vestas V-90) Solano Wind Project, Sacramento, California, Project Management
- 90 MWe (Gamesa) Allegheny Ridge, Central Pennsylvania, Construction Management
- 63 MWe (Vestas V-90, 105m tower) Snyder Wind Project, Snyder, Texas, Project Management
- Multiple Sites throughout US and Canada, WTG Upgrade and Repair Management

- 90 MWe (90 x 1000A, 1.0MW, Mitsubishi) Aragonne Mesa Wind Farm, Santa Rosa, New Mexico, construction site representative for Babcock & Brown.
- 150 MWe (83 x V80, 1.8MW, 67m, Vestas) Rushlake Creek wind generation facility, Swift Current, Saskatchewan, \$200 MM CAN, project management, construction management.
- 54 MWe (30 x V80, 1.8MW, Vestas) Miller Mountain wind generation facility, Gaspé region of Quebec, Canada, construction management.
- 54 MWe (30 x V80, 1.8MW, Vestas) Copper Mountain wind generation facility, Gaspé region of Quebec, Canada, construction management.
- 7.5 MWe [5 x sle, 1.5MW, GE Wind Energy (GEWE), 77m rotor wind turbines on 80 meter, 3 section towers], Jersey Atlantic wind project, Atlantic City, New Jersey, Owners Engineer, constructions management, on-going.
- 24 MWe [12 x G87 2MW, Gamesa], Bear Creek, Wilkes Barre, Pennsylvania, construction management, on-going.
- 7 MWe (9xM1500/750 wind turbine generators, NEG Micon) Facility; Tilaran, Costa Rica; \$7 MM; Project Management, Operations and Asset Management.
- 24 MWe (32xNM750/44 wind turbine generators, NEG Micon) wind generation facility; Tilaran; Costa Rica; \$30 MM; EPC Development.
- 24 MWe (33xNM750 wind turbine generators, NEG Micon) wind generation facility; Foote Creek; Wyoming USA; Construction management for wind turbine supplier, accelerated schedule, remote location.

Solar Projects

- 280 MW solar project, Mojave Solar Project, Concentrating Solar Power (CSP) technology, Construction Management, Barstow, California
- 250 MW solar project, Mount Signal Photo Voltaic (PV) technology, Construction Management, Calexico, California.
- 3 MW solar project, Site Manager, Peach Glen, Pennsylvania.

- Attachment C – Wind Project Case Study

See Below

EnergyWorks in Action
Case Study #5

It's all about the team

Consistent delivery of customer value is derived from EnergyWorks' ability to quickly form a cohesive and effective team with the right skills, expertise and leadership to focus on and meet the client's need. In creating a specific response to each customer, EnergyWorks draws from its cadre of permanent employees, network professionals and specialized partner companies to provide the appropriate combination of scientific, engineering, management or practical "steel-toed boot and hardhat" field operations and construction professionals for the job. EnergyWorks offers technical, financial and management support to developers without the burden of costs to acquire and maintain permanent in-house specialists.



Apply the advantages of our cross-discipline, integrated team approach to your wind-energy project.



Value proposition

The thoughtful aggregation and engagement of knowledgeable and seasoned professionals provides the foundation of the team's value proposition: meeting the client's needs and expectations every time, anywhere and allowing the client to focus its in-house resources on its core business processes. What differentiates EnergyWorks from other capable teams is the direct, "hands-on" involvement of senior management. Every assignment, or task, is viewed with the utmost attention to detail, to ensure that the responses meet the needs and expectations of the client. Cross-discipline scientific, engineering and business fundamentals are woven into a clear and meaningful plan of action.



Project and construction management services include full-time, onsite coordination and training.

Project and Construction Management services provide broad project oversight on behalf of the client. EnergyWorks relies heavily on fundamentals and organization discipline as cornerstones to achieving success. EnergyWorks will monitor performance of engineers, suppliers and construction contractors and act to ensure that project milestones, budget, construction quality and specific performance parameters are met. Available services include:

- Customized, conceptual and basic designs
- Logistical coordination of equipment shipment from point of manufacture to job site including expertise to move equipment through customs
- Project management
- Full-time, on-site construction coordination and supervision by knowledgeable and proven individuals
- Financial analysis, oversight and management of the project budget
- Integrated commissioning activity at the appropriate time during construction to optimize efficiency
- Management mentoring – transfer of management know-how to the client without direct management and supervision by EnergyWorks
- Training programs developed to the specific needs of project management and operations activities



Corporate Office

71 Old Mill Bottom Road, North
Suite 101
Annapolis, Maryland 21409
Phone: 410-349-2001
Fax: 410-349-2063
E-mail: info@energyworks.com
Website: www.energyworks.com

Lancaster Office

800 Plaza Boulevard
Lancaster, Pennsylvania 17601
Phone: 717-392-0276
Fax: 717-392-2267

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