



***CLEAR CREEK***  
P O W E R

Clear Creek Power is a renewable energy development and management consortium, formed specifically to identify and develop sites in the Rocky Mountain Regions. Qualifications and scope of work in the past five years includes: siting, developing, construction, commissioning, generating, and selling electricity to local utility companies. CCP continually evaluates potential sites to develop sustainable energy solutions using proven wind technologies.

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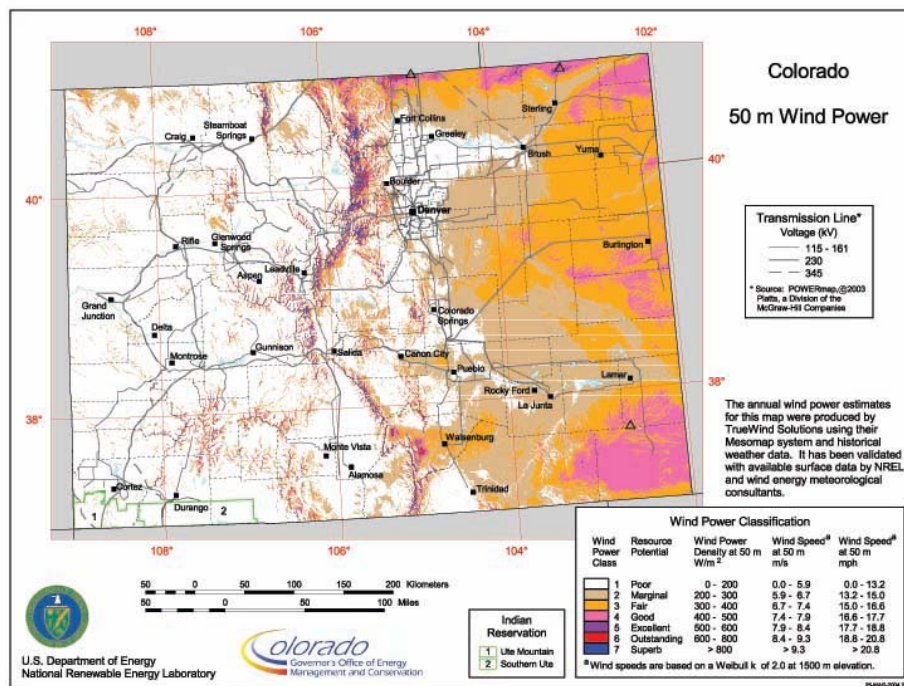
# HIGHLAND PARK PROJECT

## SUMMARY

Clear Creek Power, LLC ("CCP") is a Colorado incorporated company located in Georgetown and Denver, Colorado. The CCP consortium is composed of nationally recognized and qualified companies invested in the success of this Wind Energy Project. This 100 +/-MW project anticipates Commercial Operations in 2011.

Critical elements of this project include:

- Wind data measured from 2 on-site MET towers for 2.5 years has been identified as class 6 and 7 wind profiles, which are ideal for commercial wind development projects.
- The potential to become a national model for the Environmental Protection Agency's 'Brownfields to Brightfields' initiative, focusing on development of blighted mine lands to be reclaimed for renewable energy generation.
- The site is crossed by two 230 KVA transmission lines and one 115 KVA line.

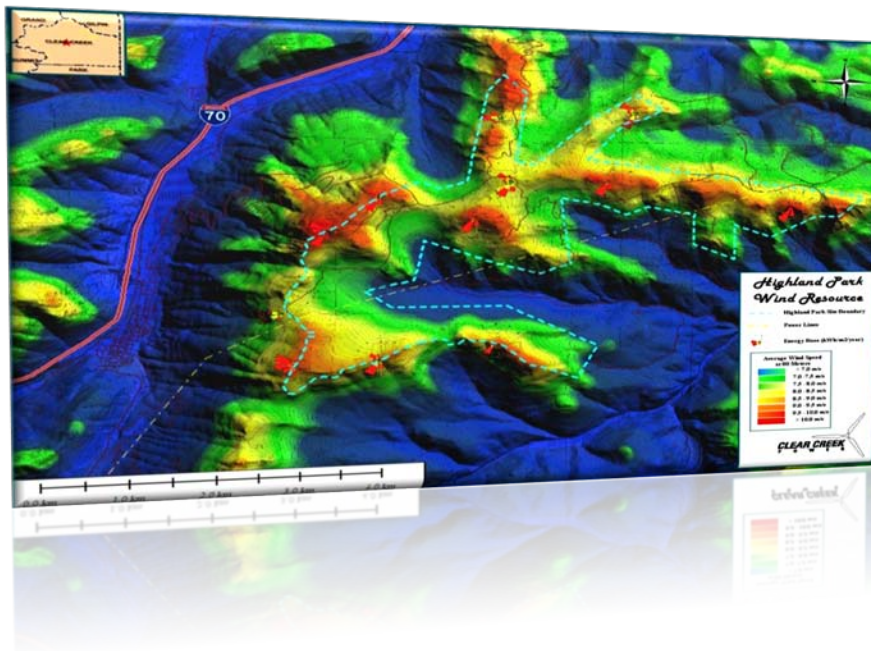


The principals of CCP are supported by a full staff and resources with experience and expertise at designing, constructing, operating and maintaining complex industrial facilities including wind projects, solar power, gas turbines, nuclear power, combined cycle and gas generating units as well as manufacturing plants.

Their careers encompass the construction and operation of large power generation and technology development organizations that are technically and financially driven such as Florida Power and Light.

The CCP consortium is composed of highly qualified organizations, businessmen, engineers, and scientists, who add a depth of capability, corporate history, and experience that is among the best in the country. They include Walsh Engineering which provides environmental consultation, Advanced Energy Systems which brings wind energy engineering expertise, Harris Engineering supplies design and construction engineering support and Wind Services Group handles operations and maintenance.

The Highland Park wind development site is located at approximately 39.71°N, 105.67°W, South of I-70 and Idaho Springs. This site was selected after an analysis using modeling software with the data from existing MET towers. That analysis determined Highland Park to be an attractive location for a 100 +/- MW wind energy development project. In preparation for expanding beyond the Highland Park Wind Project, CCP is in the process of permitting three (3) additional MET towers.



A high plateau and wide ridgelines provide many potential locations for wind turbines to harness the strong class 6 and 7 westerly winds. The energy produced by the turbines will then be directed into the grid through either a new substation or by upgrading the existing substations in Georgetown and Idaho Springs, depending on PSCO infrastructure requirements.

The 34.5 KVA collection system at Highland Park will be made up of underground turbine laterals, which will connect each turbine's electrical output to the overhead

portion of the collection system. The land for the primary project infrastructure and substation dedicated to the project at Highland Park is on private property.

Road access paths have been chosen based on grade and lack of curves or switchbacks. An extensive system of what are now Public, Private and USDA-FS roads were developed as heavy load carrying routes in the mining portion of this area's history. Spring Gulch Road will be used for the transportation of heavy loads, and minimal other public roads will be used for general access. The direct routes to the Highland Park Wind Project are accessed from I-70 by either Colorado State Highway 103 or the interstate Frontage Road.

A visual impact study is being conducted in conjunction with the county mapping department for all the surrounding communities, historical sites, and scenic viewsheds. This study is being used to evaluate the necessity and location for viewshed mitigation techniques for individual turbine site selection. Given the current Scenic Integrity objectives for some of the proposed sites, the project will strive to remain within the USDA-FS Forest Plan visual standards and guidelines.

Due to the necessity of using USDA-FS land for this project, NEPA guidelines must be followed. The Highland Park Wind Project is an appealing model for an expedited NEPA process because it will support the USDA-FS directive to mitigate fire hazards from beetle kill. In addition, CCP anticipates a working partnership with the Environmental Protection Agency in their 'Brownfields to Brightfields' initiative, which focuses on the development of blighted mine lands for reuse in the form of renewable energy generation. The Highland Park Project emphasizes reclaiming the abandoned mine lands in the upper mountain portion of the Clear Creek Watershed.

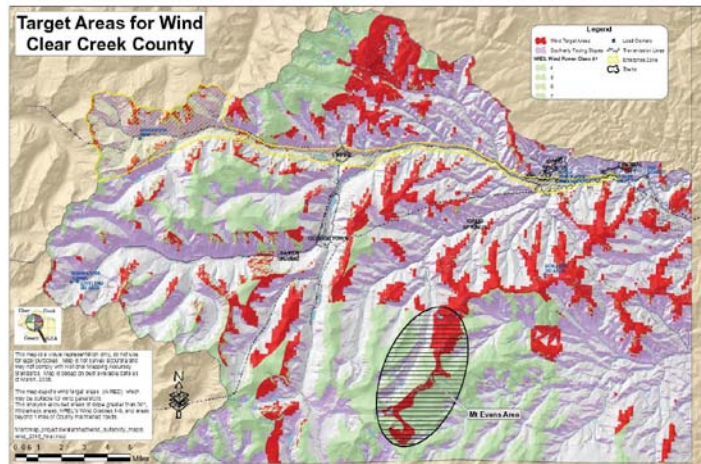
The proposed date for Commercial Operations for the 100 +/-MW project is fourth quarter 2011. It is anticipated that the project will be dispatched by Xcel Energy and operated and maintained by CCP consortium member Wind Services Group. It is expected that the local staff will be residents of Clear Creek County, assuring immediate availability to the site, and continued community support.

The combined environmental and economic benefits of this project have brought together a diverse collection of stakeholders. They have demonstrated their support for this project in numerous letters on CCP's behalf for several permitting initiatives. The Environmental Protection Agency, the Colorado Department of Health and the Environment, the Colorado Brownfields Foundation, the Clear Creek Watershed Foundation, as well as the Clear Creek County Board of County Commissioners and the Governor's Energy Office are some of the organizations that have demonstrated support for CCP. In addition the Rocky Mountain chapter of the Sierra Club has issued a position paper endorsing responsibly sited wind power.

High winds, transmission lines with capacity, a location close to the Denver load center and convenient interstate road access combine to make Highland Park an excellent location for wind energy development. The CCP team combines entrepreneurial innovation and energy industry experience with a history of delivering major power projects on budget and on time. The scope of preliminary development activities already completed, coupled with the existing available transmission and stakeholder support will allow the Highland Park Wind Project to be operational in the fourth quarter of 2011.

## FUTURE DEVELOPMENT

There are opportunities to expand throughout the region. Currently Clear Creek Power is exploring six other sites. In wind resources alone, Clear Creek County has potential in North Empire, the St. Marys area, and Idaho Springs. The map below highlights the wind and solar potential within Clear Creek County. As evidenced by this map, many target areas for wind are also suitable sites for solar development. By utilizing the infrastructure of the wind energy, it would be possible to defray the costs of solar development and project a competitive return on investment.



# PROJECT DESCRIPTION AND CRITICAL MILESTONES

Construction on the Highland Park Wind Project will consist of approximately 40 to 60 turbines, depending on the specific model chosen for this site. Project site construction activities are estimated to begin early August 2010 and are expected to last approximately 12-15 months, with an estimated operational date of November 2011.

The Highland Park Wind Energy Facility will employ 160 people during the construction phase. Overall construction management and site contractor integration will be under the responsibility of Clear Creek Power's Project Construction Site Manager. Each site contractor will be required to have and implement a Project Safety Program and a site Environmental Protection Program. Project site related construction activities will normally take place during daylight hours in one shift of 10-12 hours working 5 to 6 days a week weather permitting.

During deliveries of large equipment and supplies to the site, or if delays during construction are experienced and the schedules need to be maintained, work periods may be extended to multiple shifts. Night time work hours will be considered to allow for deliveries when normal traffic on roadways is less active. The peak number of workers at any one time will be approximately 200.

Construction of the Highland Park Wind Project will follow the general phases of development listed below.

## PERMITTING

A comprehensive approach to project permitting has been developed. The required permits for wind data collection have been granted, while permits for additional MET towers to assist in micro-siting and provide for future development are currently in the approval process.

The use of USDA-FS land requires additional permitting. CCP anticipates an expedited NEPA process based on the recent directives announced by USDA-FS Chief Forester, Gale Kimbell, the Obama-Biden American Recovery and Reinvestment Act, the Lake Huron Michigan Windfarm model using USDA-FS land, and CCP's recent discussions with the USDA-FS Arapaho-Roosevelt National Forest and Pawnee Grassland District Forest Supervisor.

CCP has made significant preliminary steps in addressing some of the chief environmental concerns associated with wind projects, under the guidance of ecologist Tom Long. A Baseline Raptor Report was completed in 2007 from data

collected between the fall of 2006 and the spring of 2007. This report documents that minimal impact is projected on the raptor population in the proposed project area. Also a Biological Evaluation covering the project area completed by EPA Region 8 in September, 2008 shows encouraging findings.

### UTILITIES SERVICES

During construction, power for support equipment will be drawn from the existing distribution and transmission system that is available on the property. This will allow for the establishment and operation of a temporary concrete batch plant. There will be no need for onsite generators. Water for this facility, as well as the entire project, will be transported on site by truck from the nearby town of Idaho Springs. This will eliminate the need to access a local water authority, or drill wells. Waste management will be managed by Rocky Mountain Cabana a local Georgetown Company.

### ROAD CONSTRUCTION

Due to the mining history of the area, there exists a network of embedded transportation infrastructure. Although some of these roads are not presently maintained, they provide a useful right of way framework for the improvement of access roads serviceable by large construction vehicles. These shall be used to connect to the main access road of Spring Gulch, to reach more remote areas and avoid switch-backs and slope issues. The key access roads are identified as County, State or Interstate roads. Rights-of-way agreements to these private historic roads are contained as part of the lease agreement, currently under review by the private landowners.

All road improvements necessary will be made to meet County road specifications and follow their Best Management Practices. Access road construction will consist of several main phases. Phase 1 will involve grading to prepare the land for construction; Phase 2 will address site access road drainage requirements by installing culverts at the specified drainage areas; and the installation of road base materials including geo-fabric and gravel where appropriate. Finished road profiles will be slightly above natural grade to promote drainage. Land will be reclaimed to County specifications after construction.

### CONCRETE FOUNDATIONS

Highland Park Wind Project will consist of wind turbine foundations that will be approximately 15 ft. deep and 50-80 ft diameter. The majority of the foundation will be backfilled with native soil resulting in a 16-20 ft diameter visible foundation. Mine tailings from abandoned mines will be used for fill to the extent possible, in support of the EPA's "Brownfields to Brightfields" initiative.



## OPERATIONS & MAINTENANCE FACILITIES

The Highland Park Wind Project will include on-site Operations and Maintenance (“O & M”) facilities. Construction or acquisition of the O & M facilities will include a standalone building and parking area. All temporary and permanent buildings will be in accordance to the CCC Building Codes and will be located on CCP owned land.

## EQUIPMENT CONFIGURATION

Turbines for this project will be selected with a preference for 1.5+MW of installed capacity each. Due to the conditions of this site, the turbines will be outfitted with cold weather technology. CCP will take advantage of any option to have site specific hub heights for turbines that must be sited in areas of visual concern.

## TOWER ERECTION & ASSEMBLY

The Highland Park Wind Project will be comprised of approximately 80-meter hub height towers, composed of three cylindrical steel sections. Each tower section weighing between 35 and 50 tons will be erected and assembled using large capacity cranes to lift the tower sections up and stack them.

Once the tower is complete, the nacelle (all generating components) will be raised up and bolted to the top of the tower. Last, the rotor (blades and hub) is attached to the front of the nacelle. Turbine blades and hub will be assembled on the ground and raised onto the nacelle.

## SUBSTATION/GRID INTERCONNECTION

A double circuit 230 kV transmission line crosses the project footprint at several points. This line is a PSCo owned transmission facility within the PSCo control area.

The existing 230 kV transmission line is located on property owned by Capital Prize Mines, LLC via an easement and is within the Highland Park Wind Project footprint. The Capital Prize properties are owned by the principles of Clear Creek Power, LLC. A standard form lease has been signed covering the life of the project. CCP proposes to build the substation immediately adjacent to the transmission line and easement. This approach results in no additional easements being required and no additional transmission lines are needed to connect the project power to the grid. At the discretion of PSCo, the existing transmission substations in Georgetown and Idaho Springs could be upgraded instead of constructing a new substation.

Image: proposed location for new substation on Highland Park Wind Project land.



In addition to the project substation being located adjacent to the existing transmission line, the scheduled reduction of coal generation to the West provides an opportunity to backfill this capacity on the transmission system with generation near the Denver load center and develops the opportunity to counter-schedule power while improving the interconnection with western Colorado. There is also an opportunity to coordinate the energy produced by the Highland Park Wind Project with the storage capability of Cabin Creek, as they would share the same transmission line. The project location does not fall within any of the proposed new Colorado Energy Resource Zones; it falls instead within Xcel's greater Denver area service territory.

The Highland Park Wind Project costs include all necessary equipment for on-site interconnection to the 230 kV line. These costs include the additional substation. CCP provided the Public Service Company of Colorado with the required study deposit.

## PROJECT COMMISSIONING

Once construction is completed and all turbine components are installed, commissioning will begin. Commissioning of each individual turbine can take little more than two days with experienced staff. Standard commissioning tests will be conducted for the electrical infrastructure as well as each turbine. Quality inspections of critical factors will be performed to ensure all project requirements are achieved.

# ENVIRONMENTAL AND ECONOMIC BENEFITS

The impacts from a project of this size on a rural community can be immensely beneficial. According to NREL models, this project has the potential to bring significant economic and environmental benefits to Clear Creek County and its many stakeholders. It also aims to be the first project in support of the CCC 1GW of renewable energy generation and offsets by 2018.

The vast majority of Colorado's current and proposed wind energy generation is located in both Northeastern and Southeastern Colorado. While geographically separated, the wind regimes between these two locations correlate to a high degree. Within this context, there are inherent benefits to the location of the Highland Park Wind Project. While not only being close to the load center in Denver, the high altitude mountain winds associated with this site are in a divergent wind regime compared to the current and proposed locations on the eastern plains of Colorado.

In a report entitled, *The Value of Spatial Diversity in Reducing Variability in Wind Power Production Across the Eastern Plains of Colorado; A Constrained Optimized Approach*, the author concludes, "There are benefits to spatial diversity. These results suggest that one may want to plan wind development based on variability reduction optimization. Should variability reduction be achieved the electric utility may see both decreased cost of integration as well as an increase in the total amount of variable power production dispatchable onto an electric grid." The Highland Park Wind Project serves as this offset variable.

The history of Clear Creek County is the history of the mining boom of the 19<sup>th</sup> Century and the ensuing legacy of that industry. After the boom had waned, the unprofitable mines were abandoned, and have been left to leach metals into the local streams. The current project footprint is littered with abandoned mines, which have not been properly closed and are in need of remediation. The principals of CCP have a history of successful mine reclamation and would like to bring this expertise to the Highland Park Wind Project. CCP views this project as an opportunity to work with EPA, CBF, and CCWF and put the land to green usage. In addition, this remediation would increase the health of the Upper Clear Creek Watershed.

There is also the opportunity to work with the Clear Creek County Open Space Commission ("Open Space") to provide a recreational benefit to the County through the proposed project, which would provide the Open Space with a source of dedicated revenue to fund future projects and maintain their existing ones.

Based on preliminary discussions with Clear Creek County Open Space, some interesting additional opportunities may stem from this project. In order to construct turbines, access roads would need to be improved. This area could

become a dual usage recreation/energy area for a “Windpark” theme in the Alps Mountain Open Space. Informational signs for the wind facility could be placed along the trails, and CCP could assist in the maintenance of several shelters in the area that have fallen into disrepair. This dual usage would also serve in providing the intentional side-effect of increasing the local tourism traffic.

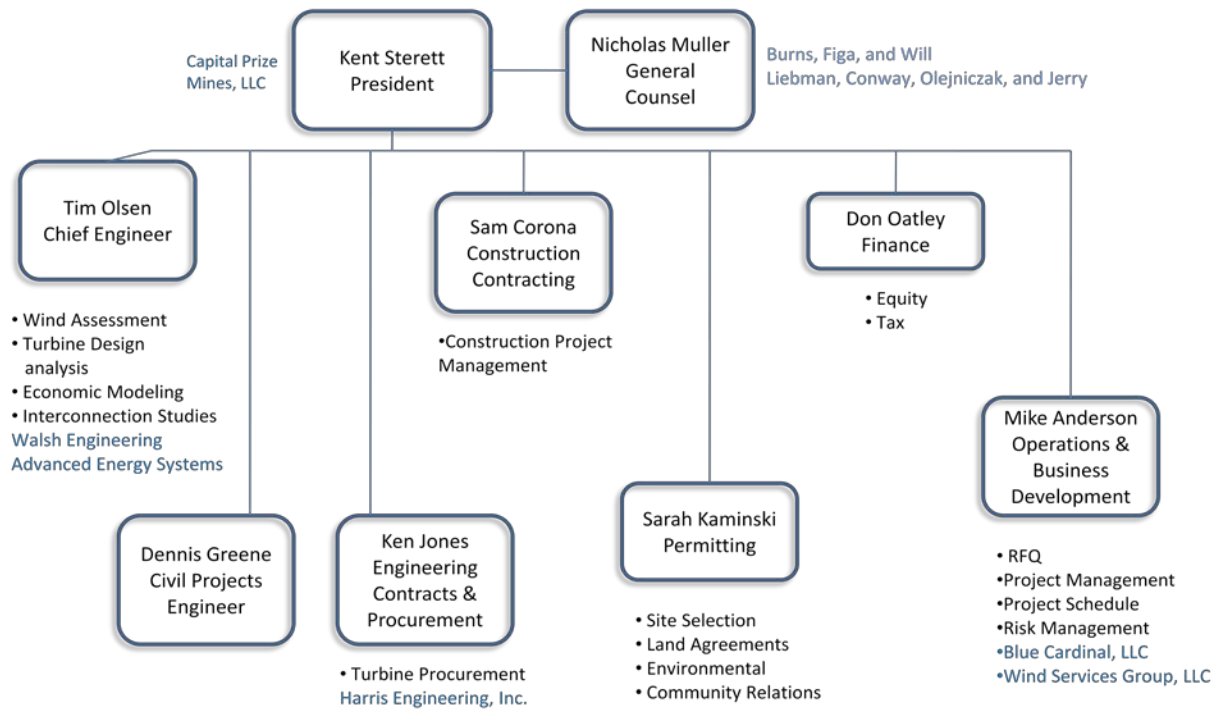
Economically, there is great potential with this project to provide both the County with much needed tax revenue, and inject a fresh source of income to landowners with currently non-productive property. The NREL Job and Economic Development Impact, JEDI, software program was used to model the potential economic impact that a 100MW wind farm would generate. According to the model, this project has the potential to provide property tax revenue of nearly \$570,000/yr and property owner royalties of almost \$300,000/year. For a County that relies on the Henderson Mine for 59.2% of its property tax base, this diversification would be welcome. There are also construction phase and permanent jobs that would be brought to the area, as well as the stimulus from spending that occurs locally during the construction phase.

The State Land Board also holds property in the project area footprint that is planned for development. Through the lease agreement they would earn royalties just like any other land owner. SLB has been very receptive to CCP’s proposed project and CCP believes using SLB land would be of service to the community. Revenue paid to SLB through the lease agreement is used as funding for the state public education system, which is currently experiencing a major budget shortfall.

As evidenced by Resolution R-08-34, the Clear Creek County Board of Commissioners has identified renewable energy development as a priority for their County. The Highland Park Wind Project, Phase I, would have the distinction of being the launch towards the goal of 1GW. This project would contribute to reaching the goals set by the state legislature and signed by the Governor to achieve a renewable energy standard of 20% by 2020. The ability to utilize wind, solar, CAES and pumped hydroelectric storage in the future phases of this project has the potential to provide a significant amount of renewable energy generation for the County and the State.

# CCP ORGANIZATION AND CONSORTIUM MEMBERS

## Project Development Team - Clear Creek Power, LLC.



## CCP PRINCIPALS



### Kent Sterett – President

Kent brings vast experience and breadth of vision to the CCP team. With over three decades of experience in the power generation industry, his experience covers a wealth of management, quality improvement and management initiatives.

Kent was previously the VP of Quality Improvement at Florida Power & Light Company. During his 18 years with FPL, Kent held management positions in the areas of electrical generation, nuclear construction, internal consulting and quality improvement.

Kent is a Registered Professional Engineer and earned a Bachelor of Science degree in Mechanical Engineering at the University of Missouri and a Masters of Business Administration at Florida International University.

#### Additional Awards / Memberships

- Initiated, developed and led the quality efforts of the first non-Japanese company to have won the Deming Prize, Japan's top quality award.
- Served as a judge for the first four years for the Malcolm Baldrige National Quality Award.
- Presented awards for "Outstanding Service to the Nation" by both Secretaries of Commerce, William Verity and Robert Mosbacher.

In addition Kent has served as a Corporate Officer for the following companies:

- Fidelity Investment – Corporate Sr. VP
- York International - Sr. VP of Corporate Quality
- Southern Pacific – VP Quality & Fleet Management, VP Quality, Strategic Planning & Purchasing
- Union Pacific – Chief Quality Officer
- Florida Power and Light –VP of Qualtec and Director of Quality Improvement

With Florida Power and Light Kent started as a Plant Test Engineer and worked his way through the ranks. He has worked in planning, development, and leading teams in constructing power plant projects. In addition, he has also worked in various plants as a Project Quality Engineer and Project Quality Supervisor.

#### **Dennis Greene - Civil Projects Manager**

Dennis brings 30+ years of experience to the CCP team, ranging from technical project management to sales and mining.

Dennis is responsible for overseeing the construction of infrastructure and roads, as well as any civil related projects. His background includes experience in Mechanical Engineering, Product Conception and Development, and extensive project management experience.

#### **Nicholas G. Muller, Esq. – Chief Legal Counsel** *(formerly Heppenstall, Savage, Trower & Muller)*

Nicholas provides assistance to business clients emphasizing investment and corporate legal areas. His office offers unique experience gained from business and legal management in both companies and law firms. Specialty areas include board representation, contracts, negotiations, employment matters, real estate, partnerships, and general corporate business.

#### **Tim Olsen – Chief Engineer**

Tim directs Advanced Energy Systems LLC, an engineering and project management consulting firm specializing in wind and solar project development and wind turbine design for 20 years. He began his career with three years as a student engineer at the National Renewable Energy Laboratory (NREL), and has consulted since with numerous firms in the industry, including NREL, GE Wind, Keybank,

Chinook Wind, AnemErgonics, Wind Revolutions, Clear Creek Power, Zond Energy, Patriot Wind, Cielo, SecondWind, Northern Power Systems, SeaWest, and PS Enterprises.

Tim has extensive experience in project development, including wind resource and technology assessment, economic evaluation, project planning and management, land use mediation, and stakeholder facilitation. He is equally strong in technical services, including wind data analysis, conceptual design, aerodynamic design, structural design, system integration, system testing and data analysis, dynamics modeling, stress analysis, fatigue analysis, certification, and technical due diligence with bank-quality reporting.

#### Publications and Presentations

- Solar Energy for Colorado, Presentation to Denver International Airport. CO, June, 2006
- Wind Energy in Colorado, Presentation for Front Range Community College, Earth Day. Lakewood, CO, April 2006
- Low Wind Speed Turbine Project Conceptual Design Study, Advanced Independent Pitch Control. NREL/SR-500-36755. Golden, CO, November 2004
- Wind Farmers Workshop, Presentations in Hubo, Burlington, Akron, Holyoke, Lamar, Montrose, CO, October 2004
- Examining the Benefits of Hybrid Systems, Presentation to Cheyenne Botanic Gardens, Public Forum, WY, April 2002
- Home Grown Electricity: Solar and Wind Basics, Presentation to IBC Wind Energy Conference, Boston, MA, April 2001
- Wind Power Plant Evaluation: Naval Auxiliary Landing Field, San Clemente Island, CA, National Renewable Energy Lab NREL SR-500-27527, Golden, CO, December 2000, and SR 500-24663, July 1999
- Wind Resource Assessment and Wind Energy System Cost Analysis, Fort Huachuca, AZ, National Renewable Energy Lab
- Hybrid Energy System Cost Analysis, San Nicolas Island, California. National Renewable Energy Laboratory NREL/TP-440-21120, Golden, CO, July 1996
- Parametric Study of Wind Turbine Loads using Yawdyn, prepared for the ASME ETCE Wind Energy Symposium, New Orleans, LA, January 1994
- WINDATS – Wind Data Analysis Tool Set: User’s Manual, Wind Technology Division, National Renewable Energy Laboratory, Golden, CO, September 1990
- Atmosphere Performance of the Special Purpose SERI Thin-Airfoil Family: Final Results, AWEA Windpower ’90 Conference, Washington, DC, August 1989 (coauthor)
- Experimental Investigation of Unsteady Fan Flow Interaction with Downstream Struts, Mechanical Engineering Thesis, VPI&SU, Blacksburg, VA, December 1985: Also included in Journal of Propulsion and Power, V3, No2, March-April 1987

**Sam Corona – Construction Manager**

Sam has over 25 years experience in improving product and process quality, cost, customer satisfaction, and revenue. He has a proven ability to apply the process improvement tools to maintain cost competitiveness, reduce total operating costs and mitigate risk. MBA, RAB certified Quality System Lead Assessor, Lean Six Sigma Master Black Belt/ Instructor and certified Adjunct Professor, Indian River State College.

Sam's background includes projects at FPL Energy, LLC where he was a QA Leader responsible for quality assurance programs for combustion turbine and wind turbine construction projects. He developed and managed an Operational Model quality system for new construction (wind) and combined cycle projects focused on risk management and risk mitigation for multiple concurrent power generation construction projects. He also was on the FPL Energy Start-up Assurance Team which developed, implemented and managed programs for effective start up and commissioning of wind and combined cycle projects. Last, he developed and managed implementation of a closed loop lessons learned process for construction projects.

Prior to that Sam was Vice President Total Quality for ABB Power Generation Inc. which is a \$500 million multi-national company that designs, manufactures, installs, and services turbine power equipment. He directed the Total Quality Management programs for engineering manufacturing, new construction and maintenance projects, and site inspection.

Sam has extensive experience with FPL as a Project Site Manager where his accomplishments included:

- Responsible for all site, construction, maintenance, engineering, and start-up efforts. (300 employees at project maximum staffing levels)
- Managed and directed Project QA Plan and returned unit to system operations at 100% power rating within seven hours of the project schedule.
- Managed Operating Budget of \$2 million with a staffing level of 13 QA Engineers and one Technician. Responsible for the management of quality assurance activities for fossil power plant and transmission and distribution projects, including Quality Engineering, Vendor QA Audits and Surveillance, and Site QA Services.
- Consultant to EBASCO Services and Tennessee Valley Authority for nuclear power mechanical maintenance requirements for TVA's Specification Improvement Program. Temporary assignment to FPL Qualtec Inc. (1987).

#### **Don Oatley – Financial Advisor**

Don moved full time into investment advising after selling his mid-size CPA firm in 2001. With thirty plus years of experience as a certified public accountant, and fifteen years of experience in the financial services industry, Don's experience as both a trusted CPA and financial advisor positions him to help clients chart a sustained and profitable course of secure investing.



Don has been active in the Colorado Society of CPAs (CSCPA) as a member of the Board of Directors and as Vice President. He is a member of the Financial Planning committee and has helped implement personal financial planning and investment conferences sponsored by the CSCPA. Don served in the U.S. Navy as a Naval Flight Officer, saw service in Vietnam and retired from the Naval Reserve with the rank of Captain.

**Ken Jones – Engineering, Contracts and Procurement**

Ken began his industrial career at Florida Power and Light as a Nuclear Quality Assurance Manager. He later functioned as the Technical Department Supervisor of a two unit Nuclear Power Plant in South Florida. Duties included, scheduling all plant operations and maintenance activities, technical approval of all plant changes, administration of the plant and OSHA compliance program and control of all documentation. He also acted as Nuclear Safety Office with direct liaison with the Nuclear Regulatory Commission (NRC).

Having been promoted with FPL in Jupiter, Florida, Ken became Quality Improvement Supervisor, Ken was assigned to a special Task Team to prepare the plan and implement processes to challenge for the International Deming prize of Japan. FPL won the Deming prize in 1989. Ken completed significant training in statistical quality control processes including Six Sigma and Pareto, etc.

Before he was promoted to Global Sourcing Manager, Ken was a Total Quality Manager for Westinghouse Power Generation. He implemented the Westinghouse Total Quality process for a Division of over 500 people with approximately 1 billion dollars in power generation projects annually.

Ken was also the Purchasing Manager for Spectra Logic, Inc., based in Boulder, Colorado.

Before his work at Spectra Logic, he served as the Director of Quality Operations for Avolent, Inc. in Westminster, Colorado. There he managed the general operations of the company, and managed a \$10M capital budget to control and administer all internal requests, approvals, supplier bids, contract negotiation, expediting, receipt and accounts payable.

**Sarah Kaminski – Director of Permitting**

Sarah ensures that CCP is compliant with every aspect of the permitting process. Sarah has extensive permitting experience in both the public and private sector. With over six years working in the public sector as a Planner II for the Clear Creek County Planning Department, Sarah understands the intricacies and politics of working with local planning commissions and how to move the process forward expediently. Sarah has worked actively for a private mining and industrial permitting firm and her experience spans multiple industries. She is a graduate of the University of Colorado at Boulder with a Bachelor's Degree in Environmental, Population, and Organismic Biology.

Sarah's duties include completion and submittal of State Mining Permits, State Air Permits, State Access Permits, and other permit applications for industrial land uses. Additionally Sarah is responsible for completion and submittal of local

government land use applications including Conditional Use Permits for industrial land uses.

### **Michael D. Anderson – Operations and Business Development**

Mike has held several senior executive leadership positions for the past 15 years in both domestic and international businesses with direct functional responsibility for business development, engineering, manufacturing, sales, and logistics. Most recent positions over the past 10 years:

- VP Technology- Global Equipment for Johnson Controls Inc. with divisional revenues of \$11B. Responsible for global product strategies and engineering R&D, engineering development, and lab asset management with annual spend of \$100M.
- VP and GM Engineered Systems for York International, Inc. with direct P&L responsibility of 3 major product divisions and annual revenue of \$700M.
- VP Global Operations- responsible for 12 manufacturing facilities in N. America, Mexico, and Europe with 3800 employees in union and non-union environments and annual product sales of \$600M.
- Director of Operations and Operations Transitions for AlliedSignal Aerospace responsible for implementing a division-wide rationalization and consolidation program to reduce 10 manufacturing plants to 7 while improving cost, productivity, and quality goals through use of Lean Six Sigma.

Earlier in Mike's career with General Electric's Astro-Space and Aerospace Divisions he held varying positions as Program Manager, Project Bid & Proposal Manager, and Sub-Contract Management

Mike is a graduate of the U. S. Naval Academy and served as a pilot before resigning his commission as a Lieutenant.

Mike is currently responsible for supporting and developing CCP's Business Development planning and RFQ response, to include project execution for post-award contracts. Formal project schedule and process-management disciplines have been developed to assure continuity and immediacy for action plan implementation to achieve RFP stated timelines and objectives.

## CONSORTIUM MEMBERS

## ENGINEERING



**Harris Group**  
[www.harrisgroup.com](http://www.harrisgroup.com)

Harris Group Inc. is a multi-discipline engineering/design firm providing a wide range of services to industrial customers nationally and internationally. Harris Group has more than five decades of engineering experience and have earned a reputation as a leader in engineering design for a broad range of industries. The company has been consistently ranked in Engineering News Record's compilation of the top 500 engineering and architectural firms in the United States.

Harris Group Inc. (HGI) pursues the engineering and design needs of the Energy Industry. The Power Generation Group focuses on power generating facility upgrades and new construction of renewable, natural gas, coal and co-generation power producing facilities.

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## CONSTRUCTION



### Capital Prize Mines, LLP

Capital Prize Mines (CPM) is a Colorado incorporated firm. CPM has existed since 1860 and is one of the largest land owners in Clear Creek County. CPM owns the land for the proposed Highland Park wind generation facility as well as the warehouse, assembly, location, maintenance facilities, receiving areas, and office facilities. The base facilities are already in place, fully staffed, and in operation minimizing mobilization costs for the project. CPM also has a long history of providing general contracting services in Clear Creek County. In this capacity CPM will serve as the general contractor function for:

- Site preparation
- Improvement of access roads
- Installing wind instrumentation and towers on properties

In addition to these responsibilities CPM will:

- Provide office facilities
- Provide construction equipment
- Provide and maintain the warehouse
- Provide off road equipment
- Staff the maintenance facilities in Georgetown, Colorado
- Provide other local support as necessary

Capital Prize Mines management team has extensive experience in developing and managing complex industrial operations including the construction of reservoirs,

gas turbine, fossil, combined cycle and nuclear power plants. The principals of CCP own Capital Prize Mines.

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## ENVIRONMENTAL



**Walsh Environmental Scientists and Engineers**  
[www.walshenv.com](http://www.walshenv.com)

The scientists and engineers of Walsh Environmental are committed to sustainable economic development and the protection, preservation, and restoration of the natural environment. They provide science, engineering, and expertise to help their clients minimize the environmental, human health, and ecological impacts of their projects, while complying with the laws that govern their work.

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## OPERATIONS & MAINTENANCE

**Advanced Energy Systems**  
[www.windtechnology.com](http://www.windtechnology.com)

Advanced Energy Systems provides wind energy conversion system design, aerodynamic design and analysis, test engineering, meteorological and operational data collection and analysis, loads modeling and structural analysis, hybrid energy system modeling, hybrid energy system design and installation, technology assessment and certification, project management, software development, proposal writing and review, resource and feasibility assessment, economic analysis, and dispute mediation.



**Wind Services Group, LLC**  
[www.windsvc.com](http://www.windsvc.com)

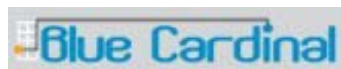
Wind Services Group specializes in the repair of composite structures for O&M and major wind power manufacturers such as Vestas, Gamesa, FPL, Mid America, and Clipper. Years of experience in blade manufacturing, plant start ups and aerospace composite training coupled with a highly skilled team of expert service technicians gives the Wind Services Team first-hand knowledge and a thorough understanding of the challenges facing blades and structural composites throughout their lifecycle.

Wind Services Group can handle repairs in the port, on the ground, or in the air.

- Port Services
- Rapid response to Port Repair needs
- Port/Field Supervision
- Expert Field Damage Assessment
- Pre-Authorized Port Access
- Ground Services
- On-Site Repairs for New Construction
- Retrofits
- Logistics Support
- Project Management
- Over 6,500 blades serviced by technicians to date
- Air Services
- Blade and Tower Inspections/Cleaning
- Composite Repairs
- Re-Torques
- Preventative Maintenance

Wind Services Group currently has over 80,000 continuous accident free man hours, thanks in large part to their comprehensive in house safety program. With their in-house expertise and training capabilities they have certified their technicians in courses such as:

- OSHA 10
- Tractel Self Rescue
- Confined Space
- In-Air/Rope Access Safety and Self Rescue
- First Aid/CPR



**Blue Cardinal, LLC**  
[www.blue-cardinal.net](http://www.blue-cardinal.net)

Blue Cardinal LLC focuses on equipment asset management and maintenance, implementing condition-based maintenance programs to cost effectively:

- a) improve reliability / maintainability
- b) reduce life cycle costs
- c) significantly extend useful life of equipment

They provide organizational assessments, facilitate the sharing of best practices and establish improved policies, procedures and allocation of responsibilities. They also provide support services and training in predictive maintenance techniques including Spectral Analysis, Infrared Thermography, Vibration Analysis, Oil Analysis,

Ultrasonic Testing and Electric System diagnostics. Blue Cardinal also provides a web-based data management system and associated Application Service Provider (ASP) services to support all program/project activities. WebView can be interfaced to existing systems including CMMS systems to integrate operational data, PdM data, real time data, etc. The result is a comprehensive picture of asset health and a CBM process that triggers work orders based on condition information.

Blue Cardinal provides expertise in planning, establishing and enhancing condition-based maintenance (CBM), preventative maintenance (PM) and predictive maintenance (PDM) practices. These programs reduce operating costs and increase reliability by improving business processes and by focusing resources where needed.

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## LEGAL

### **Burns, Figa & Will – Attorneys at Law**

[www.bfw-law.com](http://www.bfw-law.com)

BF&W provides specialized environmental representation in transactions, litigation and regulatory activities involving all major federal and state environmental programs, including “Superfund”, hazardous waste programs, water quality, wetlands, the National Environmental Policy Act and the Endangered Species Act.

### **Hogan & Hartson – Attorneys at Law**

[www.hhlaw.com](http://www.hhlaw.com)

With more than 1,100 lawyers practicing in 27 offices worldwide, Hogan and Hartson works seamlessly across multiple practices and offices to provide their clients with exceptional service and creative advice. Working at the intersection of business and government, both domestically and internationally, they help their client’s structure and complete their projects and transactions; vigorously represent their interests in all kinds of complex litigation, arbitration, and dispute resolution; guide them and their businesses through the maze of government regulation; and secure, protect, and defend their intellectual property.