Renewable Energy Services
What Quanta Offers

• Complete renewable energy services
  – Planning, engineering, procurement, construction, operations and maintenance
  – Specialists in transmission, distribution and substations
• Reputation for meeting or exceeding customer requirements/expectations
  – Excellent safety record
  – On-time, on-budget performance
  – Commitment to high quality services
• Industry leader
  – S&P 500 Company
  – Ranked #1 utility specialty contractor by Engineering News-Record
  – Numerous safety and innovation awards
Quanta’s Team of Industry Leaders

Quanta’s operating units include some of the most recognized contractors in the electric, gas and telecommunications industries.
Strong Customer Relationships

- Largest infrastructure services provider in North America

- Diverse customer base
  - Industry leaders and Fortune 500 companies
  - Currently performing services for more than 60% of all investor-owned and every Fortune 100 utility in the United States

- Strong long-term relationships and alliances
Safety: Our Highest Priority

- Quanta safety performance consistently better than national industry averages
  - #1 goal is zero accidents
  - Well-established corporate safety programs focus on continuous improvement
- OSHA National Safety Partnership: Founding Member

*As of 7/6/09*
Strong Financial Position

Strong Revenue Growth

Increasing Cash Reserves
Cash & Equivalents

Increasing Equity
Stockholders’ Equity

* On January 1, 2009, Quanta adopted FSP APB 14-1. FSP APB 14-1 requires issuers of such instruments to separately account for the liability and equity components of qualifying convertible debt instruments in a manner that adjusts the recorded value of the convertible debt to reflect the entity’s non-convertible debt borrowing rate and interest cost at the time of issuance. The value of the debt instrument is adjusted through a discount to the face value of the debt, which is amortized as non-cash interest expense over the expected life of the debt, with an offsetting adjustment to equity to separately recognize the value of the debt instrument’s conversion feature. This FSP has been applied retrospectively to 2007 and 2008.
Local Service, Global Reach

Strategic locations throughout the United States, Canada and abroad position Quanta to respond quickly to customer needs.

Confidential and Proprietary
Unmatched Resources

• Nearly 15,000 highly skilled, experienced and mobile employees
  – Experienced supervisors and craft workers – with significant direct utility or industrial experience
  – Largest non-utility employer of certified linemen in US
  – Internationally recognized experts in transmission, distribution, protection, automation and renewable energy
  – Experienced with union and open shop

• One of industry’s largest specialized construction fleets
  – More than 24,000 pieces of equipment
  – Progressive fleet management, including strong environmental regulation programs

• Innovative technologies and proprietary methodologies
Renewable Energy Services

- EPC capabilities for renewable energy projects and associated transmission, distribution and substations
  - Wind
  - Solar
  - Alternative Fuels
- Strong resume of renewable and alternative energy experience dates back more than a decade
- Ability to call on Quanta’s industry-leading expertise in transmission, distribution and substations, advanced technology and unmatched resources
Wind

- Full engineering, procurement and construction capabilities
  - Planning and studies
  - Collector systems
  - Electric distribution, transmission interconnects and substations
  - Civil work, including roads and foundations
  - Electrical system maintenance
  - Commissioning and close-out documentation
Solar

• Utility-scale and large commercial PV and CPV solar applications
  – Fixed or single-axis
  – Ground mount or large rooftop systems
  – Racking and mounting systems
  – Monitoring balance of system and data acquisition systems
  – Civil work, including roads and foundations
  – Interconnection
  – Commissioning and close-out documentation

• Leverage excellence in EPC to drive down cost
  – Program management
  – Technology selection
  – Engineering and design
  – Supply chain management
  – Construction

• Selective participation in asset ownership
Alternative Fuels

• Complete EPC services for alternative fuels, including ethanol and methane recovery
  – Pipeline – transmission, distribution, gathering systems, including high-pressure natural gas lines
  – Stations – town border, measurement, district regulator
  – Compressors, dryers, scrubbers and line heaters
  – Materials acquisition
  – Right-of-way acquisition
  – Permitting and government liaison
  – Utility interconnections
  – Specialized construction including horizontal direction drilling
Electric Power

- Specialists in transmission lines, distribution lines and substations
  - Powered by experience and reputation of some of the most respected electric service contractors in industry
  - Successful projects completed for traditional utilities, investor-owned utilities, federal, state and municipal agencies and independent power producers throughout North America and abroad
  - More than 200,000 miles of overhead and underground cable built and/or maintained

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Natural Gas & Pipelines

- Complete construction, installation, maintenance/repair and test services
  - Pipelines
    - Mainline
    - New Pipelines and laterals for Power Plants
    - Gathering
    - Distribution
    - Pipeline Integrity Assessment
    - Pipeline Maintenance and Rehabilitation
    - Horizontal Directional Drilling
  - Facilities
    - Compressor Stations
    - Meter Stations
    - Regulator Stations
    - Pump Stations
    - Interconnects
    - Terminals

- Interstate and intrastate continuity
Why Choose Quanta?

- Recognized industry leader with size, strength, experience and success to deliver on large-scale capital investments
  - Deep understanding of customer performance challenges
  - Strong track record of collaboration and innovation to improve EPC process
  - Sole source capabilities eliminate hassle and expense multiple contractors
  - Success with early involvement and constructibility reviews
  - Unmatched construction resources: largest fleet of infrastructure construction equipment
  - Experience, success and flexibility with wide range of contracting methodologies to best fit your financial requirements
Representative Experience
Case Study
Iberdrola Renewables

Farmers City Wind Farm
Tarkio, MO

• Construction of new wind farm
  – Trenching and installing 45 miles of 34.5 kV URD collection system
  – Installing 6 miles of overhead distribution line
  – 34.5 kV-345 kV collector substation as also constructed.

• Capacity: 146 MW
• Turbines: 73 Gamesa, 2.0 MW WTGs
• Completed: 2008
• Lead Quanta Company: M.J. Electric
Case Study

Iberdrola Renewables

Pebble Springs Wind Power Project

*Gilliam County, OR*

- Project provides approximately 230 MW to Southern California Public Power Authority, including Los Angeles Department of Water and Power, its largest member
  - Installation of electrical collector substation, overhead and underground collector system and transmission line
  - Interconnection through Bonneville Power Administration’s Jones Canyon substation

- Completed: 2008
- Lead Quanta Company: PAR Electrical Contractors

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Case Study
Horizon Wind Energy

Rail Splitter Wind Farm
Boynton County, IL

• Electrical construction for new 100 MW wind farm
  – High-voltage collector substation (34.5 kV – 138 kV)
  – Installation of 6 miles of 138 kV transmission line on light duty steel structure
  – Commissioning of electrical equipment

• Completed: 2009
• Lead Quanta Company: M. J. Electric
Case Study

Interstate Power and Light / Alliant Energy

Whispering Willow Wind Farm East

Hampton, IA

- Construction of collector system for first phase of new 200 MW wind farm
- Combined with the planned West phase of development, wind farm will be largest in Iowa, with potential of producing up to 500 MW
- Completed: 2009
- Lead Quanta Company: InfraSource Underground Services

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Case Study
City & County of Denver / WorldWater & Solar Technologies

DIA Solar Project

*Denver, CO*

- Fast-track solar project is one of largest solar photovoltaic installations in U.S.
  - 8 acre, 2.0 MW system (nine ground-mounted, single-axis tracking solar arrays)
  - 9,254 Sharp solar panels and 8 Xantrex inverters
  - Expected to generate 3.5 million kWh annually, enough to provide 50% of energy needed to operate light rail system
- Quanta served as prime contractor
  - Construction and procurement of electrical equipment and concrete structures
  - Planning and installation of complete array structure
  - Installation of invertors and associated collection equipment
  - Connections to power grid
- Completed: 2008
- Lead Quanta Company: Intermountain Electric
Case Study

Sempra Generation / First Solar

El Dorado Energy Solar Project
Boulder City, NV

• Utility Scale Solar Project
  — 10 MW El Dorado Solar Plant
  — Power sold to PG&E
  — Accelerated construction: Began first week of September, 2008 on-line by mid December 2008

• Quanta’s Role
  — Installation and interconnection of approximately 167,000 thin-film modules
  — Site grading and preparation
  — Layout and installation of support system
  — Installation of underground distribution system
  — Connections from plant to transformers
  — Interconnection to grid

Quanta team:
• The Ryan Company (Lead)
• Manuel Brothers, Inc.
Case Study

Southern California Edison

Tehachapi Renewable Transmission Project

- New 500 kV transmission line built to access renewable generators in Tehachapi Wind Resource Area
- Quanta responsible for first three phases
  - Two new substations -- Windhub and Highwind
  - New, 26.7-mile, 500 kV transmission line connecting SCE's existing Antelope and Pardee substations
  - New, 21.0-mile, 500 kV transmission line connecting SCE's existing Antelope and Vincent substations
  - New, 25.6 mile, 500 kV transmission line connecting SCE's existing Antelope Substation with new Windhub Substation
  - New, 9.6 mile, 220 kV transmission line connecting Windhub and Highwind Substations
  - Also providing engineering/design for access roads and supporting mitigation measures
- Innovation under construction constraints
Case Study
NextEra

Horse Hollow Substation

• EPC installation of northern collector station for Horse Hollow Gen Tie Line
• Energized in September 2009
• Lead Quanta Company: Dashiell
Case Study
City of Toledo

Gas-to-Energy Project – Landfill & Digester Gas Pipeline

Bay View Wastewater Reclamation Facility, Toledo, OH

- Wastewater treatment plant expanded to include combined-cycle cogeneration power plant using waste methane gas
  - Uses 3.25 MW daily to run pumping and biological treatment processes
  - Wet weather peak power consumption is approximately 5.5 MW daily; new wet-weather facility will raise daily peak power load to 9 MW
  - Cogeneration plant fueled primarily by solid waste digester gas with landfill gas from Hoffman Road Landfill
  - Waste-to-energy project will reduce operating cost by at least $2 million per year once wet weather facility is operational

- Installation of pipeline systems and electrical distribution
  - 1.7 miles each of 10-inch landfill gas pipeline, 15 kV electric feeder and all connections and fiber optic line
  - 6-inch, high-pressure, natural gas line extension from existing Columbia Gas connection at wastewater treatment plant to cogeneration plant compressor building

- Completed: 2008
- Lead Quanta Company: InfraSource Underground Services

Location: Toledo, OH
Case Study

Montana-Dakota Utilities

Various Ethanol Projects

- Louis Dreyfus, Iowa - Pipeline construction (2008)
- Ethanol Pipeline, Hankinson, ND - Procurement and construction of 15 miles of 6-inch HDPE pipeline (2007)
- Platinum Energy, Cherokee, IA - Construction of 22 miles of 8-inch steel pipeline to plant site (2007)
- Plymouth Energy, Merrill, IA - Construction of 7 miles of 6-inch steel ethanol pipeline to ethanol plant (2007)
- Lead Quanta Company: InfraSource Underground Services
Thank You