



RRC POWER & ENERGY STATEMENT OF QUALIFICATIONS

www.RRCcompanies.com

RRC
experience matters

At the heart of a successful project lies a team of experts who can convert their knowledge to project results. Our successful business model starts with listening to our clients' objectives and applying our experience to develop a project approach that optimizes value. We provide solutions our clients can trust, added value through our innovative abilities, and exceptional service. With project experience and a value engineering approach, we provide economical solutions to complex problems. Our engineers, scientists, and surveyors are among the most experienced in their fields.

SOLUTIONS YOU CAN TRUST

We believe that **experience matters**. It's more than a tag line. It's how we define ourselves.



Integrity

We conduct our business honestly and ethically. We take responsibility for both our words and actions and provide solutions our clients can trust.

Exceed Client Expectations

We exceed our clients' expectations with our exceptional service. We strive to be our clients' first choice for the industries we serve by delivering more value than they expected.

VALUES DEFINE A COMPANY

Accountability

We expect high standards from our services and our people. We commit to consistently improve the services we provide and we are accountable for the quality of those services.

Innovation & Continuous Improvement

As the industry evolves and advances, we maintain an innovative perspective and seek to continuously improve and incorporate the latest industry advancements. We are constantly expanding our expertise.

Employee Development

We understand that exceeding our clients' expectations can only be achieved with great people. We invest in professional development of our team and work hard to retain and recruit top talent.

Positive Attitude & Teamwork

A company benefits most from a collaborative work environment. We recognize that a positive work environment includes one that promotes safety and allows for a healthy work-life balance.

Our team of professionals and support staff have the multi-disciplinary capability to take on a wide variety of projects serving the utility, industrial, municipal, and commercial sectors. From strategic planning and conceptual design to project management and construction testing, we get the job done. By hiring key experienced staff and following the same founding principal of delivering value, we continue to grow and diversify our services to support the evolving industry.

Our Vision is to be the recognized leader of value-added technical services for the energy industry as defined by the successes of our clients and our people.



MARKETS & SERVICES

WIND POWER

OIL & GAS

SOLAR POWER

INFRASTRUCTURE

POWER DELIVERY

CIVIL ENGINEERING

CONSTRUCTION MATERIALS TESTING

ELECTRICAL ENGINEERING

GEOTECHNICAL ENGINEERING

LABORATORY SERVICES

LAND SURVEYING

STRUCTURAL ENGINEERING



HARNESS THE POWER OF WIND

WIND POWER

At present, we have provided engineering and/or testing services to over 250 utility-scale wind energy projects throughout the United States and into Canada. Since our firm's inception in 2007, we have been involved in providing engineering and observation services for over 26,000 MW of installed wind energy capacity. This experience has allowed us to develop strong relationships with many project owners, developers, engineering procurement and construction (EPC) contractors, and balance of plant (BOP) contractors. These relationships have evolved as a result of our ability to deliver quality products on even the most technically challenging projects and under very tight project deadlines. We utilize our project experience and value engineering approach to provide economical solutions to resolve complex problems.

Services provided for Wind Energy projects include:

- Geotechnical Engineering, Subsurface Investigation & Exploration
- Foundation Design Services & Structural Engineering
- Electrical Engineering Services, Site & System Layout Design
- Civil Engineering Designs & Studies
- Land Surveying Services
- Construction Materials Testing
- Quality Assurance Testing
- Advanced Laboratory Testing
- Operations & Maintenance Testing Support
 - Anchor Bolt Tension Verification Testing



A yellow CAT excavator is the central focus, positioned on a dirt construction site. To its left, a white pickup truck is parked. Several workers in high-visibility vests and hard hats are visible near the truck and the excavator. The background shows a clear blue sky and a flat, open landscape. The text 'CAPTURE THE ENERGY OF THE SUN' is overlaid on the right side of the image in large, white, sans-serif font, with 'SUN' in a larger, orange font at the bottom right.

CAPTURE THE ENERGY OF THE SUN

SOLAR POWER

We provide engineering and observation services for utility-scale solar energy projects throughout the United States. Our goal is to deliver tailored recommendations to keep projects low-risk technically while economizing overall project construction cost through optimized and concurrent engineering. Our value driven engineering philosophy has contributed to the development of strong relationships with owners, developers and contractors. These relationships continue to evolve as we deliver results on technically challenging projects with tight project deadlines.

We maintain an innovative perspective as the industry advances. From 1500v systems to battery storage integration, we provide the insight needed in the evolving solar market. With project experience and a value engineering approach, we provide economical solutions to complex problems including time-of-day pricing, fixed and tracked optimization, and installations on landfills and brownfields.

Services provided for Solar Energy projects include:

- Site Evaluation & Feasibility Assessment
- Geotechnical Investigation & Engineering
- Driven Pile Foundation Testing & Optimization
- Structural & Foundation Design Services
- Civil Engineering Design, Stormwater Pollution Prevention Plans (SWPPP), Grading & Drainage Studies
- Solar Engineering & PV Solar Design
- Solar Resource Assessment (SRA) & Economic Evaluation
- PVsyst Calculations & Estimates
- Site & System Layout Design
- Modules/Inverter Matching, Selection & Engineering
- Tilt, Azimuth & Inter-Row Spacing
- Shading Analysis
- Power Prediction/Loss Estimates
- Tracking System Recommendations
- Electrical Engineering
- Interconnection Consulting & Studies
- AC and DC Cabling Design Calculations
- Substation Detailed Design
- Collector System Detailed Design
- Control and SCADA Engineering & Design
- Engineered Designs, Calculations & Drawing Packages
- Construction Materials Testing & Quality Assurance Testing

POWER DELIVERY

RRC provides engineering, analysis, and observation services for utility and project transmission and substation facilities throughout the United States. We have the experience and expertise to plan and design all aspects of power delivery projects to create system reliability and enhance overall performance. Our company culture insists on a proactive and responsive approach to match challenging projects and timelines for the utility and transmission companies and contractors we service. We recognize the overall power industry's constant evolution and strive to be an integral part of the solution to replace aging infrastructure while integrating smart grid technologies.

Services provided for Power Delivery projects include:

- Geotechnical Investigation, Testing and Engineering
- Structural and Foundation Design Services and Optimization
- Civil Engineering Design, Stormwater Pollution Prevention Plans (SWPPP), Grading and Drainage Studies
- Electrical Engineering Studies including Asset Protection Analysis
- Construction Material Testing and On-site Quality Assurance/Quality Control
- Site Surveying including Boundary and Right-of-Way Surveys
- Electrical Substation Design 4kv-500kv
 - Designs, Calculations, and Drawing Packages
 - Distribution, Transmission and Industrial Substations
 - Equipment Specifications
 - Power Transformers
 - Distribution Transformers
 - Breakers
 - Capacitor Banks
 - Switchgear
 - Control Houses
- Protection and Control Design
- Studies
 - Coordination Studies
 - Grounding
 - Lightning Protection
 - Reactive Power Analysis
 - Load Flow
 - Short Circuit
 - Ampacity
- Arc Flash Hazard Analysis
- Substation SCADA Engineering
- Substation Automation
- Underground Power Cable Engineering
 - Cable System Reliability Consulting
 - Power Cable Testing and Diagnostics
 - Commissioning and Field Testing
 - Aged Cable Analysis
 - Power Cable Ampacity Calculations
 - Temperature Monitoring Systems
 - Electromagnetic Field (EMF) Analysis
 - System Grounding/Bonding
 - Cable and Accessories Specifications
 - Installation Design
 - Cable System Comparisons and Estimations





ENERGIZE THE WORLD

OIL & GAS

RRC provides multi-disciplinary services to the upstream, midstream, and downstream sectors of the Oil & Gas industry. We deliver exceptional value to some of the leading companies in the industry and understand how our capabilities relate to our clients' projects. Our timely and quality deliverables help our clients keep their projects on time and on budget. RRC's qualified staff and certified facilities set us apart from our competitors.

RRC has been directly involved in an extensive number of Oil & Gas projects. We have surveyed thousands of well locations and pipelines and contributed to many successful site designs. RRC is a full member of many contracting source sites, including ISNetwork, PICs, and BROWZ. We work with numerous owners, developers, and contractors to perform design review, weld inspections, and quality assurance/quality control services during construction. Typical projects include tank batteries, pump stations, compressor stations, and refineries. We can provide consultation and assistance through every step of project development, engineering, and management.

RRC services provided for Oil & Gas projects include:

- Land Surveying
- Civil Engineering
- Geotechnical Engineering
- Shallow Seismic Surveying
- Structural Engineering
- Structural Inspection Service
- Construction Materials Testing
- Laboratory Testing
- Electrical Engineering
- Mechanical Engineering
- Project Management





INFRASTRUCTURE

RRC has the experience to assist you with your infrastructure project from field to finish. Whether it's commercial, residential, education, industrial, healthcare, or transportation, we offer customized engineering support. Our comprehensive understanding of the industry includes the precise planning, careful design, and top notch execution essential to a successful project. RRC is at the forefront of delivering infrastructure projects with innovative solutions, guidance, and technical resources.

Our staff of properly trained and certified technicians and inspectors provide accurate and reliable test results. Our accredited laboratories and state of the art equipment gives us the capability to provide you with accurate results. We pride ourselves on bringing that value and experience to our clients. In addition to RRC's accredited laboratories, we can provide our services with mobile facilities, which allow us to serve projects across the country.

RRC also provides value engineered geotechnical parameters and practical recommendations appropriate to the specific region. In addition to our regional engineers, we staff several senior level geotechnical engineers in other RRC offices, who are readily available to assist with technical expertise and support services. We preach customer service, maintain calibrated equipment, demand integrity, and retain quality staff.

Our Infrastructure services include:

- Construction Materials Testing (CMT)
- Geotechnical Engineering
- Laboratory Services
- Land Surveying
- Civil Engineering
- Forensic Studies
- Seismic Evaluation



OFFICE LOCATIONS

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