Distributed Energy Resource Management Systems (DERMS)

Planning, operation and maintenance significantly affected by increased DER penetration on the distribution system. DERMS is an operational technology that allows DERs to be:

- Aggregated
- Visible to the system operator
- Managed
- Integrated with other advanced

Implementation of DERMS influences the entire distribution business from the DER interconnection process and through to operational reporting and customer engagement to enable its various applications including grid services management, system reliability improvement, enabling advanced applications such as virtual power plants and integration of emerging technologies such as aggregated demand response & DERs, electric vehicle charging stations, Microgrids, building energy management systems etc.

Key Service Offerings

**DERMS Roadmap and Strategy**

- DER technology adoption and use-cases
- Migration from legacy systems and reference architecture
- DERMS and ADMS applications integration
- Gap analysis and initiative definition

**Design and Analysis**

- DER valuation and hosting capacity analysis
- DER interconnection and DERMS integration
- Enterprise and market integration
- Custom field controllers for DERs

**Owner’s Engineer**

- Request for Proposal (RFP) support and solution evaluation
- DERMS deployment and testing
- DERMS pilot project design, engineering, evaluation and analysis

**Operation and Maintenance**

- Data curation, reporting and visualization
- M&V of system performance
- Historian data quality assessment and data analysis
- DERMS configuration optimization
Why Quanta Technology?

The distributed energy resource management system (DERMS) resides at the core of our grid modernization strategy. Quanta Technology has spent over a decade helping utilities navigate all avenues of distribution planning and operation business, especially the avenues influenced by the advent of DERs. We have a team of industry experts and thought leaders equipped to help plan, justify, select, and integrate DERMS solutions to be scalable and expandable as integration of DER continues and technology evolves.

DERMS Technology

- Strategic guidance to utility customers on interaction between legacy and emerging applications
- Partner with utilities to ensure alignment of technology, people, and processes for grid modernization.

DERMS Integration

- Integration of new operational systems.
- Pre-transition to production testing with integration and real-time simulation testing.
- Testing strategy adapted to Utility requirements.

DERMS Optimization and Data Analytics

- DERMS owner support with DERs scaling production systems evolution.
- Operational data reviews and planning studies to update configurations.
- Collaborative development of DERMS O&M strategy.

About Quanta Technology

Quanta Technology is an independent technology, consulting, and testing company providing business and technical expertise, along with advanced methodologies and processes, to utilities and others in the power and energy industries. Our mission is to provide unparalleled value to our clients in every engagement across the value chain by using advanced software and hardware, laboratories, and custom tools for a holistic approach to practical service and the most insightful thought leadership in the industry.

For Additional Information Contact:

Northeast (USA) and Québec
Mike Longrie: MLongrie@Quanta-Technology.com

South/Southeast (USA) and Ontario
Diana Prkacin: DPrkacin@Quanta-Technology.com

Central (USA and Canada)
Salvador Palafoux: SPalafoux@Quanta-Technology.com

West (USA and Canada)
Reza Nasri: RNasri@Quanta-Technology.com

International (outside USA and Canada)
David Elizondo: DElizondo@Quanta-Technology.com

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