

A RUGGED RIG/DPG SOLUTION FOR ALL TYPES OF POWER GENERATORS

The **SecureRIG™** RIG/DPG solution from DC Systems enables power generators to easily pass secure, real-time data and commands between a generation site and independent system operators (ISOs) or regional transmission organizations (RTOs).

The **SecureRIG** solution combines DC Systems' industry-leading **RT RIG™** software with a ruggedized hardware platform designed for high reliability in commercial and harsh industrial environments. The turnkey SecureRIG system is fully certified for the California Independent System Operator (CAISO).

POWER GENERATION



SecureRIG™ solution

APPLICATIONS

- Renewable power installations (wind, solar, hydro, geothermal, biomass)
- Traditional power installations (gas turbine)
- QF site conversion
- Hathaway RIG upgrades
- Cogeneration sites

POWERFUL DATA ACQUISITION AND CONCENTRATION

Using DC Systems' industry-leading **RT RIG** software, the **SecureRIG** solution can acquire telemetry data from multiple sources, such as remote terminal units, generation controllers, and plant control systems. The system can communicate directly with intelligent relays, meters, and controllers, using many different protocols.

As a data concentrator, the solution supports both serial and TCP/IP connections and industry-standard protocols such as Distributed Network Protocol (DNP) and Modbus. Real-time data and commands can pass between the power generator, power authority, and other external systems using the secure DNP connection. The platform includes Secure Sockets Layer (SSL) technology for added security, and advanced functions for automatic generation control (AGC), such as bumpless transfer for smooth transitioning between a generation site and the power authority.

RUGGED HARDWARE

The **SecureRIG** solution's ruggedized hardware platform is designed to tolerate temperature extremes, wind, dirt, vibration, and other stressors common in industrial environment. Equipped with a high-performance Intel processor and solid-state flash technology, the platform has no fans, spinning disk drives, or other moving parts—resulting in significantly improved reliability. The industrial-grade platform is designed to IEC 61850-3 specifications, has a temperature range of -20 to 70 degrees (C), and is suitable for rack-mount or standalone installations.



DC SYSTEMS



SecureRIG RIG/DPG Solution

FULL SERVICE, TURNKEY APPROACH

A complete range of services is available for the **SecureRIG** solution, including design, installation, metering, and full certification. Additional options include system redundancy, remote diagnostics, maintenance, event notification, training, and certificate management. Multiple certificates can be easily installed, and internal monitoring software provides alerts at 60, 30, 15, and 5 days prior to certificate expiration. Extensive self-monitoring features enable the system to send alerts via e-mail or pager if a problem occurs. The **SecureRIG** solution also supports remote monitoring by the power generator, or by DC Systems.

A REAL-TIME, FULLY COMPLIANT SOLUTION

Peace of mind

Receive alerts automatically via e-mail or pager if a problem occurs. The system supports remote monitoring by the power generator or by DC Systems.

Flexibility

Easily adapt the system to fit your needs, with a wide array of configuration and expansion options and other capabilities such as event historians, real-time data analysis, and local data display and alarming.

Full compliance

Take advantage of a fully certified solution. DC Systems ensures that each **SecureRIG** installation conforms to CAISO or other local power authorities' RIG/DPG requirements for data processing, communication, and security.

Security

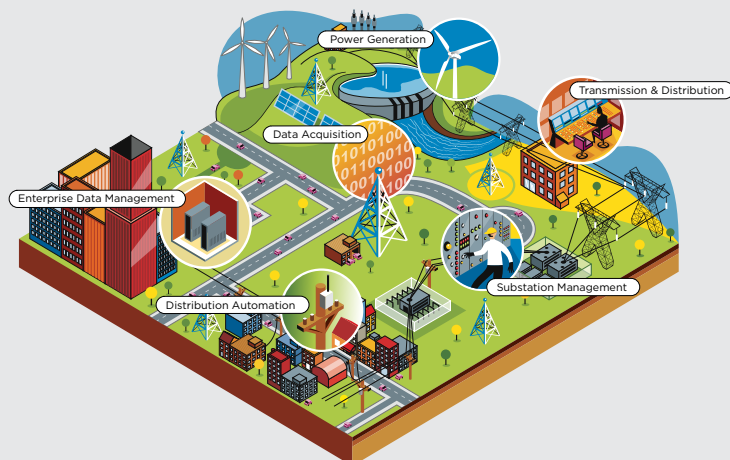
With complete certificate management, ensure that data is accessible only to authorized users.

THE RTscada™ SOLUTION

The **SecureRIG** solution incorporates **RTRIG** software, a member of the **RTscada™** product family from DC Systems, a leading developer of smart grid software for utilities and large energy users.

Our products combine the power of distributed intelligence with centralized data management—putting intelligence where you need it, while centralizing configuration, administration, and monitoring at the enterprise level. **RTscada** products interoperate throughout the Smart Grid—from field devices, to substations, to control centers, to the enterprise—giving you greater flexibility, control, and responsiveness.

LET US TURN YOUR DATA INTO SMART DATA.



DC SYSTEMS

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WE PUT THE INTELLIGENCE IN THE SMART GRID.