Power and Energy

Return to Applications

Create a Case Study **WWW WWW...** (e.g., My NASA Project) →

Smart Energy

Return to Applications

data_distribution_service_dds meets the demanding real-time data sharing requirements of next generation distributed power management systems. By enabling a high quality, scalable, low-latency, real-time information infrastructure, DDS provides a proven solution for smart energy. This helps deliver improved performance, dataquality, data compliance, and cost savings.

Local Grid

Return to Applications

Grid Distribution and Control Deploying at Toronto Hydro, LocalGrid MicroGrids connect generation, load and storage to optimize usage. DDS seamlessly integrates apps, enforces security, and merges NI LabVIEW with LocalGrid Microgrids.

Source: RTI: Deliver Secure MicroGrid Solutions Using Advanced DDS Protocol

Reactor System

Return to Applications

DDS provides the Culham Centre for Fusion Energy (CCFE) Remote Handling System with the scalability, Quality-of-Service and integration needed to support the supervisory control and data acquisition system that repairs and configures reactor components and instrumentation within a fusion research reactor.

Source: Adlink: Culham Centre for Fusion Energy (CCFE)

Wind Gerneration

Return to Applications

RTI

Return to Applications

DDS enables fast control within wind turbines and distributed gust mitigation across the array of

turbines using scada systems to manage wind power delivery.

Source: RTI: Wind Plant Design

Twin Oaks Computing

Return to Applications

Data communications is a critical component of our new Energy Markets, including Smart Grid, Wind Farms, CSP plants, and more. These systems require sophisticated command and control, and constant monitoring and feedback. Communications happen from small sensors in remote locations to large computers in centralized control centers.

CoreDX DDS can connect your applications running in all of these locations - quickly, reliably, and securely. Discover the benefits of DDS in your project.

Source: Twin Oaks Computing: Energy Solutions

Smart Energy Systems

Return to Applications

Duke Energy’s Distributed Intelligence Platform with data_distribution_service_dds provides accurate control and alleviates intermittency of distributed energy resources, provides the ability to scale independently as needed without needing a system wide rollout, takes cost out of the business by reducing integration time and effort.

Source: RTI: Controlling Smart Grid IoT Devices