

Smart Grid Initiative Solutions



Committed to providing cost-effective solutions that make you more effective!

Electric Utilities and Large Power Consumers are being faced with a peculiar challenge of upgrading protection & control installations originally installed 30-50 years ago to meet the twenty-first century technology requirements of "Smart Grid" - without wholesale equipment change-out or extended outages.

The Issue

Installing Today's Intellectual Electrical Devices (IEDs) onto existing system without wholesale change-out or extended Outages:

- Advanced protection & control
- Metering and communications
- Remote and automated load shedding
- Automated service restoration
- Digital fault recording and power quality monitoring

Case Study Challenge

Distribution switchgear: systems designed 40+ years ago were Open Delta Secondary

- Only 2 potential transformers—A and C phase—stationed in the PT cabinet within the metal-clad switchgear
- Smart Grid requires all 3 potential transformers for advanced protection metering information

The Solution...

CE Power Provides

- Switchgear Modifications & Upgrades; IED installations made in the field with **minimal or no outage**
- Energy management devices and systems...installed
 - ◆ Simply and inexpensively
- Power Quality and Power Factor metering and recording
- Startup, troubleshooting & compliance testing



CE Power Advantages

- Utility grade field experience
- Licensed Professional Engineers
- Intricate knowledge of utility systems
- Project organization and execution
- Emergency services available



CE Power Transmission Sub Upgrades Include:

- Upgrade or change out
 - ◆ Protective & control devices
 - ◆ Meters, RTU's and Test Switches
- Perform ALL NERC/FERC compliance
- Systems testing (differential relay, line protection relay)
 - ◆ GE/Multilin, Schweitzer, Basler, Areva, Siemens
- Functional testing, communications and trip testing



Initiate Smart Solutions With The Smart Grid Solutions Partner...

CE Power Solutions

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