

Consortium for Electric Infrastructure to Support a Digital Society (CEIDS)

Don Von Dollen
CEIDS Integration Manager

CEIDS Mission



Mission

To develop the science and technology that will fundamentally transform the infrastructure to cost-effectively provide secure, high-quality, reliable electricity products and services



CEIDS

Consortium for Electric Infrastructure
to Support a Digital Society

CEIDS Partners

U.S. Utilities

- Alliant Energy
- Bonneville Power Administration
- Exelon Corporation
- Consolidated Edison Company
- Long Island Power Authority
- New York Power Authority
- Salt River Project
- TXU/Oncor
- We Energies



International Utilities

- Polish Power Grid Company
- Electricite de France

Public Agencies

- U.S. Department of Energy

Business & Industry

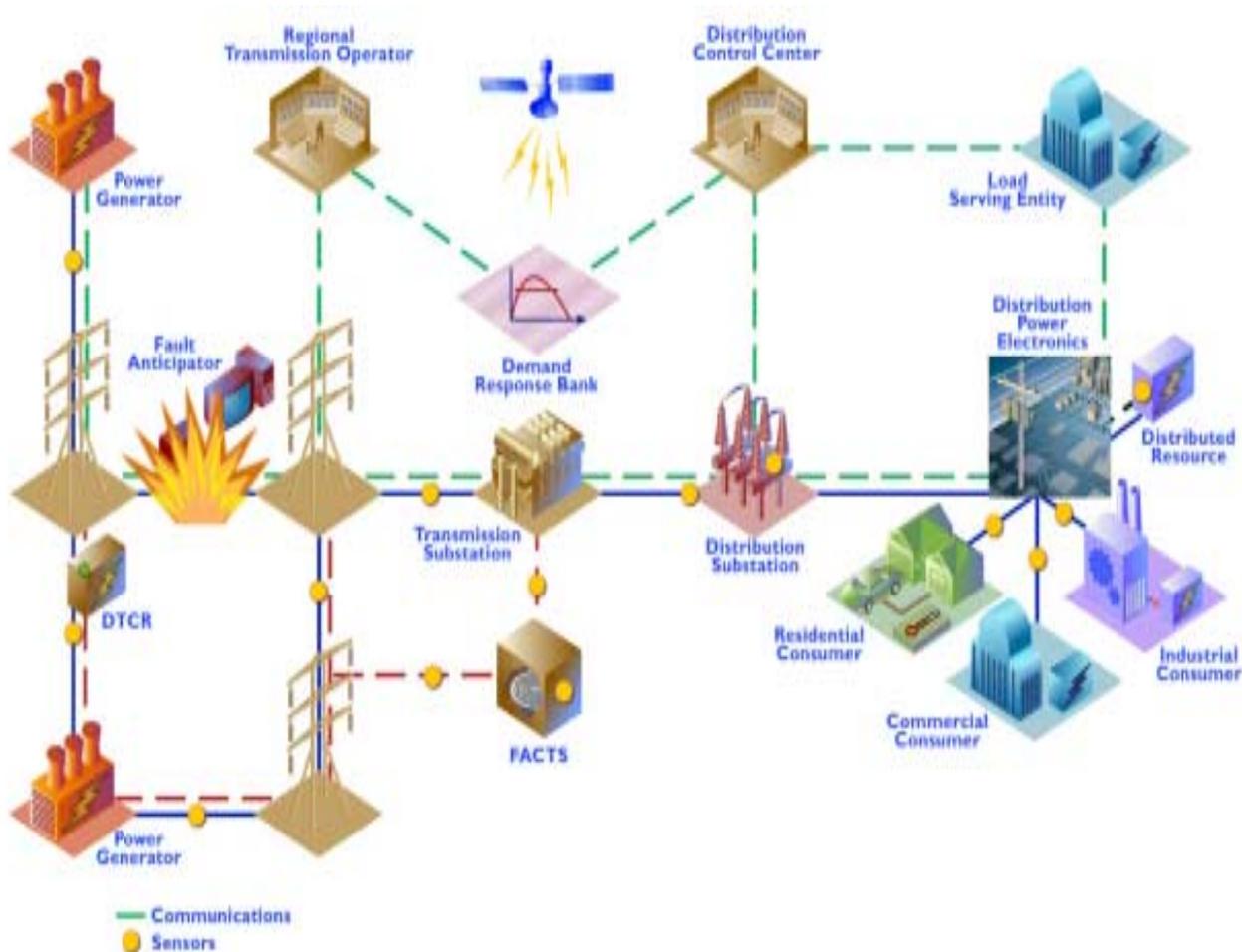
- Cisco Systems
- Lockheed - Martin
- United Technologies

Vision

A new electric delivery infrastructure that integrates advances in communications, computing, and electronics to meet the energy needs of the digital society



Enable A Self-Healing Power Delivery System



- Sensors
- Communications
- Local Computational Agents
- Power Flow Control
- Integration of Distributed Resources
- Event Anticipation
- Advanced Distribution Automation
- Consumer Portal

CEIDS Research Portfolio



- Integrated Energy and Communications System Architecture (IECSA)
- Communications Architecture for Distributed Energy Resources (DER)
- Fast Simulation and Modeling
- Consumer Portal
- Power Electronics