

GRIDWEEKTM

Washington DC
April 23-26, 2007

Collaborative Projects: Making it Work

Erich W. Gunther

Chairman and CTO

EnerNex
CORPORATION

- UCA International Users Group
 - a non-profit organization whose members are utilities, vendors, and users of communications for utility automation.
 - Multiple constituent organizations
 - CIM Users Group
 - 61850 Users Group
 - OpenDR
 - OpenAMI, UtilityAMI, HAN TF
 - Addressing issues in real time as grid modernization projects are being planned and implemented

- California Energy Commission (CEC)
 - Reference Design for Demand Responsive Infrastructure
 - Programmable Communicating Thermostat Reference Design
- Southern California Edison (SCE) - AMI
- Alliant Energy - Distribution System Measurement
- Salt River Project (SRP) - Substation Automation
- TXU – AMI Enterprise Architecture

- Utility Collaboration is Key to Real Progress
 - Consumers Energy (Jackson, Michigan)
 - AMI Enterprise Architecture
 - SCE and others
 - AMI Security (includes the HAN)
 - HAN Architecture
 - TVA
 - Substation Automation Security Policy, Conformance
 - Enterprise architecture / harmonization of models
 - SDG&E, SCE, Duke and Others
 - Utility of the future projects
- Encourage utilities to share information through user/industry groups and research organizations – UCAIug, EPRI, DOE, etc.

- Visions are aligned
- Goals are similar
- Tactics are complimentary
- More benefit can be obtained by more formal and rigorous information exchange between organizations and project teams
- Now the Hard Part - Systems Engineering
 - Scalability, reliability, security, privacy, management
 - New skills required within utility industry – it's not your mentors concept of electric power engineering any more