



IntelliGrid

Monthly Progress Report

Providing technical progress and event updates to program supporters

OCTOBER 2004

PROGRAM NEWS

- ***IntelligridSM Architecture Rolled-Out on October 14 in Washington, DC!*** E2I officially announced the completion of the initial phase of the IntelligridSM Architecture, the first comprehensive communications architecture for the power delivery system of the future. Key partners, LIPA and EdF gave presentations as well as William Parks, DOE's acting director, Office of Electric Transmission and Distribution. Intelligrid's non-proprietary "open" architecture can be adopted by all utilities and manufacturers, promoting interoperability and better communication. IntelligridSM Architecture is being considered by utilities such as Long Island Power Authority (LIPA) and Electricité de France (EdF). EdF will be applying the IntelligridSM Architecture in several areas, including using its recommendations in the redesign of its Distribution Information System to meeting the market restructuring required by the European Union for 2007.
- ***PSE&G has joined our Program!*** We are pleased to announce our newest partner, Public Service Electric and Gas of New Jersey, thanks to strong support from Ralph Izzo, chairman of the board of PSE&G, and the diligent efforts of Jeanne Fox, chairperson of the New Jersey Board of Public Utilities, BPU, and an active member of the IntelliGrid Public Advisory Group. We look forward to the participation of PSE&G especially with the exciting possibility of a demonstration project in the Consumer Portal area.
- ***IntelliGridSM is now a service mark!*** Following our move to Intelligrid Architecture (aka IECSA), we obtained a service mark entitled IntelligridSM that encompasses the entire program. All future publications and articles should display the service mark logo for IntelligridSM.
- ***Our research in the utility communications area is vital to the California Energy Commission!*** The California Energy Commission's PIER's Control and Communication (C²I) Initiative is proposing to utilize our research in the utility communications area. The stage has been set for evaluating what system integration R&D may be required to implement demand response and distributed generation in California. A

Electricité de France Has the Best Utility Web Site in Europe

Following a review of U.S. web sites, Platts (the world's largest energy information provider) looked at the international English and French language sites of more than 70 electric and gas companies in the world. The web sites were assessed through a customer's point of view. The review examined the various functions and the ease of using online services by customers for each web site. EdF customers have started to use the online services offered by their utility for checking their account balance or making a payment. EdF customers can create their own "online" account giving them access to all the information regarding their invoices. In addition, EdF proposes services focusing on advice and energy demand control. Other EdF tools include simulation tools that allow customers to have a better knowledge and understanding of their energy consumption. It is no surprise that with a state-of-the-art web site, EdF is an active partner and leader in the IntelliGrid program that is continually looking to the future for premier services and technology.

map was created of the work already underway against the requirements in California. The mapping was presented as a matrix which could be used to highlight gaps and overlap. This matrix will be the basis for a “straw man” reference design for demand response information exchange. Keep checking the calendar for a proposed public workshop *after* preliminary research is developed along with an internal workshop.

TECHNICAL PROGRESS

IntelliGridSM Architecture (previously Integrated Energy and Communications System Architecture)

- *Legal reviews completed on all the IntelliGridSM Architecture documents!* All of the original IntelliGridSM documents passed through intensive legal reviews and are posted on the E2I website. Check the website at [IntelliGrid Architecture](#).
- *Long Island Power Authority proposes additional follow-on work for IntelliGridSM Architecture projects.* After a series of workshops held at LIPA, a substantial amount of proposed project ideas were entertained to integrate IntelliGridSM Architecture recommendations.

Open Communications Architecture for Distributed Energy Resources in the Advanced Distribution Automation Project

- *Dual Logo Might be the Way to Go!* A dual logo might be considered for the entire body of 61850 standards by IEEE and IEC. Preparations are underway for the next P21547.3 meeting in November.
- *SPAG (Strategic Project Advisory Group) Approves of Dual Logo!* There was positive support to use the idea of a dual logo with either IEEE or ANSI (with whomever an agreement can be reached). At this point, all options will be kept open. The dual logo might be adopted faster in the U.S. Preparations are underway for the November Working Group-17 meeting.
- *Proposal Review for Test Hosting Bids!* Please let Frank Goodman, fgoodman@epri.com know if any advisory members are interested in reviewing the bids that have come in since the September 17th notice was issued.
- *Stakeholder Workshop a huge success in Knoxville, TN!* The September 21-23 workshop focused on international standards with the first case of the abnormal-condition operations studies presented and discussed.

Check Us Out!

We will be talking about our Program at the following conferences:

EPRI Distribution Conference – Preparing for the Future
October 27-28, 2004
Grant Hyatt Hotel
Atlanta, GA

PowerSystems World
November 16-18, 2004
The Navy Pier
Chicago, IL

CEC Demand Response R&D Symposium
November 30, 2004
Secretary of State Auditorium
Sacramento, CA

First International Conference on the Integration of Renewable Energy Sources and Distributed Energy Resources
December 1-3, 2004
Marriott Hotel
Brussels, Belgium

Executive Briefing, IntelliGrid Program
December 9, 2004
Consolidated Edison of New York Headquarters
New York, NY

DistribuTECH
January 25-27, 2005
San Diego Convention Center
San Diego, CA

CIRED, 18th International Conference & Exhibition on Electricity Distribution
June 6-9, 2005
Lingotto Conference and Exhibition Centre
Turin, Italy

- *Frank Goodman visits the EDF DER Testing Facility!* Frank Goodman, project manager, visited the EDF lab in Karlsruhe, Germany. This facility focuses on DER testing with their primary testing on combined heat and power (CHP) systems. EDF indicated interest in hosting some of the test activities for CHP.

Fast Simulation and Modeling

- *Draft Requirement Specifications for all execution cycles were reviewed!*
- *Final Preparation for October 5th Technical Workshop!* Final preparations were completed for the October Technical Workshop including the final agenda, completion of materials for attendees, technical summary and workbook.

Consumer Portal

- *Consumer Portal Object Models Proposal!* Joe Hughes, project manager, has completed a draft proposal for CEC for a project that will focus on system management infrastructure development.
- *EDF moves forward with Intelligent Meter!* Promising discussions are underway to review EDF's progress with the intelligent meter and the possible relationship to demand response development activities in California.
- *2005 Consumer Portal Work Plan is Under Development!* The 2005 approach will be divided into three parts: overall requirements definition for consumer portal; detailed object model development for demand response functions; and, trial implementations to demonstrate concepts.

If you need more information or have comments, please direct them to Marek Samotyj at msamotyj@epri.com. Details of program events can be found on www.linkify.com.

About EPRI

EPRI creates science and technology solutions for the global energy and energy services industry. U.S. electric utilities established the Electric Power Research Institute in 1973 as a non-profit research consortium for the benefit of utility members, their customers, and society. Now known simply as EPRI, the company provides a wide range of innovative products and services to more than 1000 energy-related organizations in 40 countries. EPRI's multidisciplinary team of scientists and engineers draws on a worldwide network of technical and business expertise to help solve today's toughest energy and environmental problems.

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