



# Monthly Progress Report

*Providing technical, program and event updates to supporters of CEIDS*

**AUGUST 2004**

## CEIDS NEWS

- *CEIDS Partners are stepping up to the plate!* The first of two workshops highlighting the rollout of the Integrated Energy and Communications Systems Architecture (IECSA) were held for the executive staff at LIPA and for the technical experts at Con Edison. These workshops were conducted to identify specific opportunities to apply the IECSA results to real projects with these partners. We look forward to similar meetings with the other partners.
- *Public Release for IECSA (Integrated Energy and Communications System Architecture)* There will be two events announcing the release of IECSA results and products.

The first will be a “pre-announcement” for CEIDS partners and EPRI members at the Power Delivery and Markets Sector Council Meetings in Miami, Florida the **week of September 27**. There will be several presentations on IECSA during the course of the week by Don Von Dollen and Joe Hughes. We will alert the attendees and other interested EPRI members via EPRI’s broadcast e-mail alert system prior to the meetings to build interest and attendance at the presentations.

The second event will be a general public announcement on **October 14** at the EPRI offices in Washington, D.C. This will be aimed at the energy trade press and the Washington policy community. You will all be invited to attend or send a representative. More details to follow. . . .

- More good news . . . we are in the process of changing the name of IECSA to something a little more “press” friendly. Stay tuned!

## TECHNICAL PROGRESS

### *Integrated Energy and Communications System Architecture – More Rollout Information!*

- The final four volumes of the report has been delivered to the CEIDS staff and our Partners, now we are about to deliver it to the entire industry for broad understanding, accep-

### **Polish Power Grid Company Announces the Formation of PSE-Operator S.A.**

A new Polish Transmission System Operator, PSE-Operator S.A., started operation on July 1, 2004 as a separate entity from our CEIDS partner, Polish Power Grid Company (PPGC). Initially, PSE-Operator will operate its business on transmission assets rented from PPGC but eventually will probably own those assets.

PSE-Operator’s responsibilities will include:

- Transmission System O&M
- Ensuring stability of the transmission system
- Power plant dispatch
- Running auctions for power
- Purchase of ancillary services
- Cooperation with neighboring systems

PSE-Operator S.A. will be a major element in the competitive electricity market in Poland.

Participation with the IECSA project and CEIDS is particularly important to PPGC and the new PSE-Operator S.A. as they restructure their electricity market. PPGC has identified a communication center as the first project under the IECSA guidelines. In addition, PPGC has sent four engineers to Palo Alto for the FSM project (see description under the FSM Highlights).

tance and implementation. A prototype website was developed that included excerpts extracted from the printed documents and the model. The CEIDS staff reviewed the website and plan to refine the navigation and improve content. Some utilities have reviewed the prototype and are confident that the website would be a good mechanism for delivering project results. The necessary improvements will be made to enhance the website so it will eventually become a commercial quality site with educational material as well as technical content.

### ***Open Communications Architecture for Distributed Energy Resources in Distribution Automation Project***

- *Help from Partners is needed!* Under IEEE P1547.3 Standard (under Standards Coordinating Committee 21), the writing committee completed Draft One on the Guide Document. The draft has been sent to the P1547.3 Working Group for review, however, much writing and consensus building will still be needed to get to a ballot version. Participation is needed on this working group from all ADA and DER stakeholders. All CEIDS members are urged to assign a member to join this working group and to identify additional members. Please contact Frank Goodman for additional information at [fgoodman@epri.com](mailto:fgoodman@epri.com).
- *Our efforts are paying off!* The IEC Working Group 17 under Technical Committee 57 has shown progress in gathering domain information to help write the standards. The document structure was discussed along with the numbering and integration into the IEC 61850 series rather than having a separate number designated by the IEC headquarters in Austria.
- In order to further our research work, project manager, Frank Goodman visited Sandia National Laboratories in Albuquerque, New Mexico, to tour their test facilities and discuss the possibility of Sandia acting as a testing host along with Public Service of New Mexico. Sandia is interested in teaming with Salt River Project and others in responding to the laboratory and the field testing phases of this project.

### ***Fast Simulation and Modeling***

- *Polish Power Grid Company (PPGC) assigned four experts to work on FSM!* They spent one week in Palo Alto working with the EPRI project manager, Peter Hirsch, and the ABB team in anticipation of their use of the Transmission Fast Simulation and Modeling (T-FSM) project. The PPGC team worked on an outline for voltage and reactive power management for PPGC. As a result of discussions, the PPGC

### ***Check Us Out!***

We will be talking about CEIDS at the following conferences:

#### **CIGRE**

August 29 – September 3, 2004  
Palais Des Congres DE  
Paris, France

#### **Energizing the Northwest, Today and Tomorrow**

Organized by Bonneville Power Administration  
September 28-29, 2004  
Doubletree Hotel  
Portland, OR

#### **EPRI Power Delivery and Markets Advisory Meetings**

September 27 – October 1, 2004  
InterContinental Hotel  
Miami, FL

#### **IEEE Power Engineering Society's 2004 Power Systems Conference & Exposition**

October 10-13, 2004  
Grand Hyatt Hotel  
New York City, NY

#### **PowerSystems World**

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

#### **First International Conference on the Integration of Renewable Energy Sources and Distributed Energy Resources**

December 1-3, 2004  
Marriott Hotel  
Brussels, Belgium

team will investigate the impact of markets on the T-FSM (part of the hour-ahead cycle); use of phaser measurement units in FSM; FSM fast cycles and their relationship with protection systems; and, coordination of the related cycles. This is great example of how a CEIDS Partner creates extra value for themselves and CEIDS through extra involvement in a project.

- The primary focus for the project in July included work on Task 3 (the draft detailed requirements specification based on the High-Level Requirement Specifications) and the completion of a working technical report that was prepared for the project team. Work continued on the analytical framework and the operations cycles. Analytical methods were identified. Issues related to more complex methods and their coordination was investigated.
- TVA continues to be an active supporter of this project by providing participation in weekly meetings, attending technical discussion and providing technical references.

### *Consumer Portal*

- Anne-Lise Didierjean, EdF, completed a stakeholder engagement plan that identifies key organizations and activities for coordination of the Consumer Portal development work.
- Discussions are proceeding with members of the Digital Technology Advisory Council (e.g., IBM and CISCO) and they have indicated a willingness to participate in the actual development process for the Consumer Portal. These members have also acknowledged the value of the foundation set by the IECSA project.
- The project plan is being adjusted to achieve better participation of the industrial partners. Other sources of funding are being identified for this effort.

If you need more information or have comments, please direct them to Marek Samotyj at [marek@e2i.org](mailto:marek@e2i.org) or 650-855-2980. Details of CEIDS activities calendar can be found on [www.linkify.com](http://www.linkify.com), CEIDS Updates/Mark Your Calendars folder.

### About E2I

The Electricity Innovation Institute (E2I) is a non-profit, public-benefit organization designed to conduct strategic, breakthrough R&D in electricity-related science and technology. It is affiliated with, and draws upon the technical expertise of EPRI, which has 30 years of experience conducting research on the electric generation and delivery system. Through the creation of public/private partnerships (including industry, federal and state governments, and foundations), E2I in collaboration with stakeholders, supports and directs science and technology innovation in electricity supply, delivery, and utilization.

**© 2004 Electricity Innovation Institute (E2I). All rights reserved. Electricity Innovation Institute and E2I are registered service marks of the Electric Power Research Institute, Inc.**