



Monthly Progress Report

Providing technical, program and event updates to supporters of CEIDS

JULY 2004

CEIDS NEWS

- The Digital Technology Advisory Council was formed following suggestions made by the CEIDS Steering Committee. Representatives from IBM, Honeywell, Computer Associates, Panasonic, Cisco, Motorola, Sun Microsystems, and Intel participated in the first joint session with the Steering Committee members. They expressed a key interest in the results of the IECSA project, suggested aggressively promoting IECSA, and to encourage utilities to specify IECSA as part of any design requirements.
- Partnership Engagement Plans have been very well received by the first 6 Partners involved in this activity and include Polish Power Grid, Electricite de France, Salt River Project, We Energies, Alliant Energy, and Consolidated Edison. This positive reaction prompted us to accelerate development of subsequent plans with the remaining Partners. The major objective of each plan is to outline the partners' expectations and identify how to meet their expectations.

TECHNICAL PROGRESS

Integrated Energy and Communications System Architecture Delivered!

GE delivered the final reports on IESCA to the CEIDS staff on June 30 as scheduled. We are reviewing them now and the final reports will be available to the CEIDS partners on August 2. The four volumes include the following: Volume I: IECSA User's Guide and Recommendations; Volume II: IECSA Functional Requirements; Volume III: IECSA Models; and, Volume IV: IECSA Standards, Guidelines and Recommendations. These four volumes comprise over 6,000 pages of information. The focus will now be on promoting the widespread usage and awareness of IECSA.

- The near-term value of IECSA will provide engineers with a head start when specifying and designing automation systems. The long-term value of IECSA will allow for efficient installation of systems, reduce capital costs, reduce life cycle costs, and improve asset utilization.

NYPA Announces the Opening of the Convertible Static Compensator

Completion of the world's most advanced electric transmission control device was celebrated recently by NYPA for the Marcy Convertible Static Compensator (CSC) at the Frederick R. Clark Energy Center. The new equipment can shift power from heavily-utilized lines to less-utilized lines and help alleviate transmission bottlenecks like the one between Utica and Albany. "The CSC has been a major collaborative enterprise that's involved considerable dedication, flexibility, ingenuity and hard work," said Eugene W. Zeltmann, NYPA president and chief executive officer, of the contributions by NYPA staff members and other Industry organizations supporting the effort. The Power Authority invested a total of more than \$41 million in the CSC, with the remainder provided by various power industry organizations with an interest in advancing the technology and sharing what's learned from NYPA's experience. They included EPRI, Siemens Power T&D (the manufacturer of the CSC), and more than 30 other utilities and ISOs in the U.S., Canada, and New Zealand. The power electronics area is of high interest to the CEIDS Program and the application of the CSC reinforces the CEIDS Program direction.

- A priority will be to work with the CEIDS partners to let them know how they might use the IECSA results. The partners that have expressed interest in using the IECSA tools so far include DOE, Long Island Power Authority, Electricite de France, Polish Power Grid, and the California Energy Commission.
- The CEID's staff will assist the partners with workshops, identification of an application and technical support as well as training courses and general support.

Open Communications Architecture for Distributed Energy Resources in Distribution Automation project

- The IEEE P1547.3 committee used material from both the DER/ADA Standards Project and the IECSA project for draft 1 of the Guide for Monitoring, Information Exchange, and Control for Distributed Resources in Electric Power Systems. The committee met several times by webcasting and once via face-to-face to review text for specific sections of draft 1. Draft sections will be sent to the officers of the IEEE P1547.3 Working Group for integration into the existing material for a consistent-reading draft 1. Participation is needed on this working group from all DER stakeholders. Please contact Frank Goodman for additional information at fgoodman@epri.com.
- New IEC Working Group 17 under Technical Committee 57 is scheduled to meet in July to begin the writing process for the standards. Meeting dates will be scheduled for 2005 to incorporate an aggressive schedule for writing this standard. The CEIDS DER/ADA Standards Project will be a major source of input.
- The DER/ADA Standards Project Stakeholder Team Workshop was held on June 22-24 in Richland, Washington and was hosted by Pacific Northwest National Laboratory. The purpose of this workshop was to get input to write a "notice of opportunity" for teams to host the laboratory developmental testing of the object models. The mapping trials are near completion and preliminary results were presented along with a demonstration at the June workshop for the 2004 studies of distribution operations with DER under abnormal operating conditions. Anne-Lise Didierjean, EdF, presented an animated graphics presentation to demonstrate the role of the object model standards.

Fast Simulation and Modeling

- Completed the first webcast meeting with the project Stakeholders including the Project Advisory Group members on June 2. The meeting objective was to inform the new stakeholders about the project scope, provide a progress report as

Check Us Out!

We will be making appearances at the following conferences:

International Conference on Computing, Communication and Control Technologies (CCT 2004)

August 14-18, 2004
University of Texas at Austin

Austin, TX

Paper on FSM submitted by Marek Samotyj and Peter Hirsch

EPRI Power Delivery and Markets Advisory Meetings

September 27 – October 1, 2004

InterContinental Hotel
Miami, FL

Transmission Fast Simulation and Modeling Workshop

October 5, 2004

EPRI Auditorium
Palo Alto, CA

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

well as solicit feedback, and to understand the stakeholders' level of interest. The Project Advisory Group members received the final version of the "High-Level Requirements Specification Document" to complete Task 1. Their comments are expected in August and will be included in the final version.

- Began work on the draft detailed requirements specification as part of Task 3. The ABB team focused on the analytical framework and the required solution methodologies.

Consumer Portal

- The project plan was completed within budget. Proposals were received for three different project components and are being reviewed.
- The available project funding is being reviewed prior to release of any subcontracts.
- Discussions of alternative approaches to the project plan include soliciting participation and input from various stakeholders that could contribute to the project without specific CEIDS funding. Initial feedback on this approach from the Digital Technology Advisors Group was very positive.
- The possibility of coordinating development with a CEC project on communications integration is also being explored.
- Anne-Lise Didierjean, EdF, completed a draft stakeholder engagement plan for the Consumer Portal project.

If you need more information or have comments, please direct them to Marek Samotyj at marek@e2i.org or 650-855-2980. Details of CEIDS activities calendar can be found on 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.