

STATE OF CALIFORNIA – THE RESOURCES AGENCY

California Energy Commission

1516 Ninth Street
Sacramento, CA 95814

Website: www.energy.ca.gov

Consumer Website: www.ConsumerEnergyCenter.org

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DOCKET
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Notice of Staff Workshop on Programmable Communicating Thermostat (PCT) Systems Integration Framework

The California Energy Commission's Public Energy Interest Research (PIER) Program will host a public workshop to discuss a systems integration framework intended to support the current Title 24 Building Standards for Energy Efficiency specifications for the programmable communicating thermostat (PCT). The framework is intended to simplify the PCT systems integration discussion so that constructive comments from all stakeholders can be considered.

The workshop will be held:

TUESDAY, NOVEMBER 29, 2005
10 a.m. to 4:00 p.m.
CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
First Floor, Hearing Room A
Sacramento, California
(Wheelchair Accessible)

Audio from this meeting will be broadcast over the Internet. For more information, please go to:

www.energy.ca.gov/webcast/

Parties can also participate in the Webex conference through the internet or by phone.

Webex information:

Topic: Systems Integration Workshop

Date: Tuesday, November 29, 2005

Time: 10:00 a.m., Pacific Standard Time (GMT -08:00, San Francisco)

Link: <https://energy.webex.com/energy/j.php?ED=86288462&UID=32951767>

Meeting number: 921 990 405

Meeting password: abcd#1234

Teleconference: Call in toll free phone number (US/Canada): 866-469-3239

Call in phone number (US/Canada): 650-429-3300

86288462

Purpose

This workshop is the second in a series to facilitate a discussion on the scope, needs and timing for the development of an integrated framework for a demand response infrastructure. This workshop will address issues that become important when communications between system hardware and software are involved. Demand response infrastructure requires the ability to send data between locations and assure that systems can exchange information seamlessly.

Background

Systems integration is the process of linking together software and hardware components from different vendors using standardized interfaces to achieve the goals of a system.

Systems integration is closely tied to the concept of reference architecture and reference designs (the topic of the previous workshop). A reference architecture is a framework for understanding significant relationships among entities. A reference design is a specific description of the physical components and capabilities necessary to support a given set of functions required by the owners or users of the system. Two principal goals of a disciplined, systems integration approach are:

- 1) Encourage "open architecture," meaning vendors would use common interfaces in their products that would allow information exchange with other vendor's products. This encourages innovation as well as lower costs.
- 2) Think through, in advance, the potential new desired functions for the supporting infrastructure. This lowers infrastructure costs by minimizing obsolescence and reduces the likelihood of stranded assets.

Public Participation

The Energy Commission's Public Adviser, Margret J. Kim, provides the public assistance in participating in Energy Commission activities. If you would like information on how to participate in this workshop, please contact the Public Adviser's Office by phone at (916) 654-4489 or toll free at (800) 822-6228, by FAX at (916) 654-4493, or by e-mail at [pao@energy.state.ca.us]. If you have a disability and require assistance to participate in this workshop, please contact Lou Quiroz at (916) 654-5146 at least five days in advance.

News media inquiries should be directed to Claudia Chandler, Assistant Executive Director, at (916) 654-4989.

If you have questions of the subject matter of this notice, please call Mark Rawson at (916) 654-4671.

This workshop is free; however, seating is limited and we encourage pre-registration.

Please RSVP to Tony Tully at [ttully@energy.state.ca.us].

Date on line: November 15, 2005

Programmable Communicating Thermostat (PCT) Systems Integration Framework Workshop

AGENDA

November 29, 2005
CALIFORNIA ENERGY COMMISSION
1516 Ninth Street
First Floor, Hearing Room A

This workshop will be available as a webcast and as a webex conference. See above for details.

Workshop Presentations are posted on the [Documents Page](#).

10:00 a.m.	Introductions and Opening Remarks <ul style="list-style-type: none">• Mark Rawson, PIER ESI Research Program Manager• Ron Hofmann, PIER DR Program Advisor
10:15 a.m.	Vision of a Demand Responsive Future <ul style="list-style-type: none">• Roger Levy, DRRC Program Development and Outreach Manager
11:15 a.m.	Systems Integration Case Study <ul style="list-style-type: none">• Dave Watson, Researcher, Lawrence Berkeley National Lab
11:30 a.m.	What is System Integration? <ul style="list-style-type: none">• Grant Gilchrist, Utility Communications System Architect, EnerNex Corporation
11:45	How is Systems Integration Achieved?

a.m.	<ul style="list-style-type: none"> Erich W. Gunther, CTO, EnerNex Corporation
12:15 p.m.	Lunch Break
1:30 p.m.	Strawman PCT Systems Integration Interface <ul style="list-style-type: none"> Ron Hofmann, PIER DR Program Advisor
2:00 p.m.	Comments by Panel <ul style="list-style-type: none"> Erich W. Gunther, EnerNex Corporation (Discussion Facilitator) Larsh Johnson, President, E-Meter Richard Schomberg, Chairman, International Electro-technical Commission (IEC) technical Committee 8 on System Integration Paul De Martini, Southern California Edison
3:15 p.m.	Facilitated Public Discussion <ul style="list-style-type: none"> Mazi Shirakh, Energy Commission PCT Title 24 Project Manager (Discussion Facilitator) Topics <ul style="list-style-type: none"> Is there an understanding of why a PCT needs systems integration? Comments on the roles and responsibilities of stakeholders. CEC, CPUC, IOUs, vendors, customers, É Where does the regulatory process fit in? Should "WHAT" be defined by regulators? Should "HOW" be defined industry?
3:45 p.m.	Closure <ul style="list-style-type: none"> Ron Hofmann, PIER DR Program Advisor Mazi Shirakh, Energy Commission PCT Title 24 Project Manager <ul style="list-style-type: none"> Summary of open discussion Review of action items Next steps, schedule