

Energy - Docket Optical System

From: Gaymond Yee [Gaymond.Yee@uc-ciee.org]
Sent: Thursday, August 16, 2012 1:34 PM
To: Energy - Docket Optical System
Subject: Comments for Docket No. 12-EPIC-01

TN # 66709

AUG 16 2012

Categories: Ready to Docket

Comments to Efficiency and Demand Side Management EPIC Breakout Session, Slide 11, Demand Response

The slide listed the potential target areas:

- Home Communication, Networks and Energy Information Systems
- Commercial Lighting and HVAC
- Industrial: Refrigerated Warehouses and Wastewater/ Water Treatment

Energy use and peak demand in commercial, industrial and residential buildings can be reduced by various information technologies such as using wireless sensor networks to monitor the environment and support automated demand response. Low cost sub-meters, along with energy gateways and information displays, can provide localized information on energy usage and load demand, enabling users to understand how their energy is being used and to implement intelligent strategies to optimize demand response while minimizing effects on comfort or commercial/industrial operations. Research is needed to develop the technologies that will enable these feedback loops.

I like to suggest the following non-all inclusive list for the Energy Commission to consider:

- Commercial and Residential Automated Demand Response
- Low-cost, low-power standards-based wireless communications and networking for use in buildings
- Low-cost smart wireless sensors and actuators for use in commercial and residential buildings
- Low-cost sub-meters
- Energy gateways and information displays
- Efficient and ubiquitous data collection, storage/archival, dissemination, presentation, and aggregation/disaggregation of energy information

Gaymond Yee
Research Coordinator, California Institute for Energy and Environment
Technical Director, i4Energy Center University of California
(510) 459-6063
<http://uc-ciee.org>