Energy Efficiency Portfolio Standards Proceeding
Minutes of Working Group 4
October 4, 2007
Location: Hearing Room, 3rd Floor, 3 Empire State Plaza, Albany
Time: 11:00 a.m. – 5:00 p.m.

Next Meetings

Thursday, October 18, 2007
11:00 a.m. – 5:00 p.m.
NYSERDA
10th Floor Suite, Suite 1006
485 Seventh Avenue (between 36th and 37th Streets)
New York City

Thursday, November 1, 2007
11:00 a.m. – 5:00 p.m.
Department of Public Service
Boardroom, 19th Floor
3 Empire State Plaza
Albany

Action Items

- In conjunction with WG 2, develop a "master list" of all existing programs and mature/emerging technologies (Update to minutes: Co-convenors for WGs 2 and 4 will compile a master list.)
- Find out if transmission efficiencies should be considered as part of this proceeding (Update: Ways to improve system efficiencies in both generation and transmission should be considered in this proceeding.)
- Develop a straw proposal for what should be included in WG 4 final product: Dana Levy to prepare
- Summarize discussion on emerging technologies and circulate to WG 4 members, who will use it as basis for discussion of barriers faced at each stage of the product development cycle: Dana Levy to summarize discussion and circulate
- Review list of programs, identify barriers to greater implementation and/or gaps in existing programs and come to next meeting prepared to discuss barriers/gaps and to address them

Working Group Process

- Dana Levy advanced a proposed methodology for the group to follow, consisting of the following steps: 1. identify what programs/technologies should be discussed, 2. identify barriers to greater implementation of programs/technologies and/or gaps in program coverage, 3. identify ways to

address barriers, and 4. identify expected beneficial outcomes of EPS programs
- WG should focus on generic barriers and "root problems"
- Work product will **not** be technology/program specific, but will look at categories of programs and technologies
- Measurement and verification (M&V) are being addressed by WG 3
- WG 4 will address both kW and kWh in its report

Demand Response Discussion Summary

- Developed groupings of program types by jurisdiction (some overlap in jurisdiction)
- State jurisdiction:
    - Targeted DR
    - Time variant pricing (TOU, CPP, etc.)
    - Thermal efficiencies
    - Energy storage (gas, electric, thermal, geothermal)
    - Fuel Switching (HVAC, GSHP)
    - End-Use generation
    - T&D system design
    - Energy efficiency
- Federal jurisdiction:
    - Time variant pricing (TOU, CPP, etc.)
    - Mandatory DR (SCR) – emergency
    - Voluntary DR (EDRP) – emergency
    - Ancillary services DR (DSASP) – economic
    - Economic DR (DADRP) – economic
    - Pressure reduction generation
    - Energy storage (gas, electric, thermal, geothermal)
    - T&D system design
    - Energy efficiency
- Discussion will not be limited to just those areas over which the PSC has jurisdiction
- For each category, will identify barriers and gaps, as well as ways to address them

Emerging Technologies Discussion Summary

- Any list of technologies is really just a snapshot in time
- Look at emerging technologies from creation to commercialization to come up with generic fixes
- Purchasers of technologies will be the ones who really decide on their viability: should the technology push the program, or the program push the technology?
- Access to valid, unbiased data is a generic issue important to all technologies. Need to provide valid, unbiased technical information to the regulators so that specific regulations can be developed to improve the marketplace – regulations should be generic not technology-specific

- Key groups with different obstacles that need to be overcome: customers, vendors, installers, service providers, regulators
- Barriers include lack of information, lack of awareness/interest, lack of incentives, net metering
- Key barrier to many technologies is lack of time variant pricing for end users
- When discussing ways to overcome barriers, should consider approaches taken by NJ, RI, CA, and ISO-NE