

Buildings Technology Research and Development Subcommittee Meeting

September 25, 2008

Location: 950 L'Enfant Plaza DOE

Time: 1:30-3:30 p.m.

Attendees¹

Shyam Sunder

Jerry Dion

Kevin Hurst

Paul Domich

Dru Crawley

Alan Schroeder

Sean McDonald

Patrick Hughes

Paul Torcellini

Bobbie Lippiatt

Andy Persily

Steve Bushby

Hunter Fanney

William Weidemeyer

Stuart Pregnall

Ken Sandler

Dale Manty

Bob Thompson (via telephone)

Dana Bres

Martin Weiland

Kevin Kampschroer (via telephone)

Russell Conklin (via telephone)

Donna McIntire

William Brodt

Mila Kennett

Michael Buchet

Agency/Office

DOC/NIST

DOE/EE-Buildings

EOP/OSTP

DOC/NIST

DOE/EE-Buildings

DOE/EE-Buildings

PNL

ORNL

NREL

DOC/NIST

DOC/NIST

DOC/NIST

DOC/NIST

Architect of the Capitol

Architect of the Capitol

EPA/Green Buildings

EPA/ORD

EPA

HUD/PD&R

GSA

GSA

DOE/CCTP

DOS/OBO

NASA

DHS/S&T

DOL/OSHA

BTRD Co-chair

BTRD Co-chair

BTRD Ex-Sec

Next Meeting: October 16, 2008, 1:30 - 3:30 PM, 950 L'Enfant Plaza DOE)

October 16, 2008

November 20, 2008

December 18, 2008

¹ Active Members not attending identified in light gray

Introductions: Subcommittee Co-chair Jerry Dion (DOE) opened the meeting of the Buildings Technology Research and Development (BTRD) Subcommittee welcoming the agency representatives and thanking them for their participation. Agency participants provided brief self-introductions. Subcommittee Co-Chair Shyam Sunder (NIST) also welcomed members.

Review of Minutes: Review of Minutes for July 17, 2008 was not performed (please see attached minutes for July 17, 2008).

Status on the Subcommittee Report Approval: Paul Domich reported that all Executive Branch Departments, the Smithsonian Institution, and the Architect of the Capital have reviewed and approved the Subcommittee Report. The report is pending final approval by the Committee on Technology with a deadline of September 29, 2008.

The reviewer's comments and suggested changes were considered by Paul Domich (NIST) and Dru Crawley (DOE). There were a number of good changes made to the document based on these comments. On several issues, such as increased emphasis on O&M and training, the balance of energy supply and demand focus, and comments to the tables and graphics, reviewer's comments were studied, noted, and deferred: some of these particular issues may be better addressed in second follow-up document or whitepaper.

Domich raised the issue of the report announcement and the distribution of the printed report once the full clearance process is complete. Subcommittee Co-Chairs Dion and Sunder agreed to develop a joint press announcement for the formal public release of the report. Initial printed versions of the report may be produced internally by DOE and NIST, with a possible second printing through U.S. GPO. Crawley suggested that two presentations be developed, one short and one more extensive, and made available for use by the subcommittee members in their outreach activities following the public release of the report. Sunder offered to distribute an extensive 31 slide presentation covering the major issues and recommendation contained in the report. Crawley agreed to develop a shorter derivative presentation slide deck.

Action Item: Domich and Sunder will work with the NIST Public Affairs Office to develop a draft press release for review and approval by Dion and Kevin Hurst (OSTP)

Action Item: Sunder will transmit the in-depth slide presentation to Crawley and Dion.

Action Item: Crawley will lead the development of a second, higher level presentation deck for distribution and use by the full subcommittee.

R&D Implementation Whitepaper: Bill Brodt (NASA) raised the topic of the challenges faced by federal agencies in implementing new high-performance technologies within their agencies. A significant disconnect exists between senior management at some federal agencies and in the U.S. Congress in recognizing the issues and impacts of the range of Executive Orders, Memorandums of Understanding (MOUs), and public laws (EPAAct 2005, EISA 2007) requiring federal building owners and managers to implement these directives. Absence of high-level support and requisite funds are severely limiting the rate at which new resource-saving technologies are being introduced. Kevin Kampschroer (GSA) further described the issue that too large of a workload facing GSA and other federal agencies causes agencies to focus on near-term priorities in place of longer-term resource saving objectives.

Sunder recommended that Brodt and Kampschroer lead a writing team in developing a short scoping document followed by a two-page whitepaper describing the key issues and the range of potential avenues that should be investigated to address the implementation of the BTRD R&D results and of the new technologies already coming to the market. The scoping document should focus on purpose/objective, need/justification for working group, anticipated work products/deliverables, membership, and timeline. The R&D Implementation Whitepaper will be shared with the Federal Facilities Council, the Real Property Council, the Federal Energy Management Program (Sustainability Council) and with individual agencies for their review and comment. Following a short period of stakeholder input to the major themes contained in the whitepaper, a decision will be made by the Subcommittee as to whether a full whitepaper should be developed that would provide guidance to all federal agencies as to the priorities, costs, and procedures that should be followed to successfully begin implementing new technologies in future federal building projects.

Action Item: Bill Brodt and Kevin Kampschroer will lead the development of the two page whitepaper with support from Paul Domich and Dru Crawley. This topic will be the primary issue for consideration at the October 16th BTRD Meeting.

Action Item: Dale Manty will share information on the EPA NEPA program.

R&D Implementation and Roadmapping: Jerry Dion (DOE) presented an extensive overview of the R&D implementation and roadmapping plans underway in the Buildings Technologies Program at DOE. To illustrate the size and complexity of the DOE program, the Fiscal Year 2008 budget for the program was \$108M with less than 4% diverted to non-programmatic areas. The FY 2009 budget could be on the order of \$100M to \$200M with the Presidential request at \$123M.

As a note, DOE works closely with DOE Program Centers in developing and deploying many of their programmatic objectives.

For complete details on the Dion presentation, please see attached PowerPoint file.

Future Activities of the Subcommittee: Sunder reminded the members of the 2009 agenda identified by the subcommittee earlier this year. Major activities include:

- Announcement and dissemination of the “Federal R&D Agenda for Net Zero Energy High Performance Green Buildings
- Creation of a possible Implementation Working Group to further develop the R&D Implementation Whitepaper (recent addition)
- Briefing of stakeholder groups and key policy makers
- Selected technical seminar (see below)
- Preparing for and proactively ensuring visibility of the Subcommittee activities and recommendation with the incoming administration.

Future Speakers: The Subcommittee will actively seek speakers to address the members at future meetings. Practicing experts in integrated building systems, urban planning and design, and energy-focused pilot programs will be actively sought for future meetings.

Action Item: Dale Manty (EPA) and Jerry Dion will assist in identifying the future speakers.

Closure: Dion and Sunder thanked the agency representatives for their participation and contributions.

(Please note that the complete set of Workshop materials is now available on the BTRD website.)

<http://www.bfrl.nist.gov/SBT/>
user name: sbtuser
password:

(email domich@cip-consulting.com for the password)