EESCC Phase Two

EESCC Global Web Meeting

August 28, 2014

ANSI
American National Standards Institute

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EESCC Phase Two

Building a more energy- and water- efficient built environment

EESCC Standardization Roadmap

- 125 recommendations
  - 109 standards-based
  - 16 overarching workforce credentialing
- 1,400 downloads
  - Wide-ranging interest among stakeholders
  - Individuals, companies, and orgs not previously involved

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EESCC recommendations can help bring about significant energy and cost savings, but first they must be acted upon

Main Focus of Activities. . .

Communicating

Coordinating

Connecting

energy efficiency standardization, domestically and internationally

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Upcoming EESCC Activities:

Communicating, Coordinating, and Connecting

- **Pursuing Action on Closing Standardization Gaps**
  - Assess progress to close standardization gaps identified in the roadmap
  - Explore potential organizations to address gaps
  - Work with relevant groups and encourage collaborative efforts to ensure gaps are addressed
  - Facilitate coordination of standardization activities, domestically and internationally
  - Produce a progress report highlighting the collaborative's findings

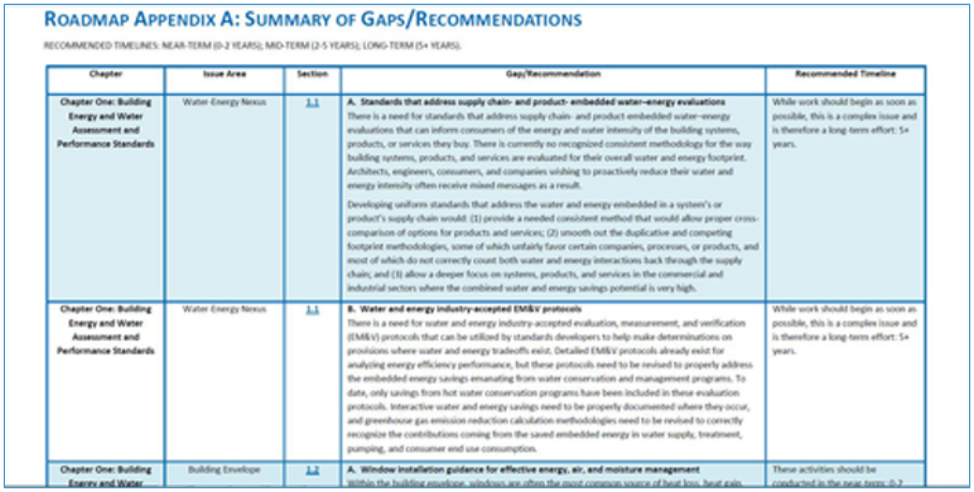
- **Educating Decision-Makers and Stakeholders**
  - Communicate research-related gaps to academia and research groups
  - Conduct outreach to educate policymakers and other stakeholders

- **Influencing International Standards Discussions**
  - Liaise with U.S. Technical Advisory Groups (TAGs) to ISO and IEC
  - Educate U.S. TAGs on EESCC recommendations so they in turn can influence international standardization discussions

Highlighting Progress to Close the Gaps . . .

PROGRESS REPORT

- Highlighting SDO community's efforts to close standardization gaps identified in the roadmap, as well as new gaps within existing issue areas (if identified)
  - Input gathered through **web conference discussions**, **outreach** to the SDO community, and the **EESCC Standardization Action Form**
  - Updates to **Roadmap Appendix A** to form backbone of report



ROADMAP APPENDIX A: SUMMARY OF GAPS/RECOMMENDATIONS

RECOMMENDED TIMELINES: NEAR-TERM (0-2 YEARS); MID-TERM (2-5 YEARS); LONG-TERM (5+ YEARS).

Chapter	Issue Area	Section	Gap/Recommendation	Recommended Timeline
Chapter One: Building Energy and Water Assessment and Performance Standards	Water-Energy Nexus	1.1	**A. Standards that address supply chain- and product- embedded water–energy evaluations** There is a need for standards that address supply chain- and product-embedded water–energy evaluations that can inform consumers of the energy and water intensity of the building systems, products, or services they buy. There is currently no recognized consistent methodology for the way building systems, products, and services are evaluated for their overall water and energy footprint. Architects, engineers, consumers, and companies wishing to proactively reduce their water and energy intensity often receive mixed messages as a result. Developing uniform standards that address the water and energy embedded in a system's or product's supply chain would: (1) provide a needed consistent method that would allow proper cross-comparison of options for products and services; (2) smooth out the duplicative and competing footprint methodologies, some of which unfairly favor certain companies, processes, or products, and most of which do not correctly count both water and energy interactions back through the supply chain; and (3) allow a deeper focus on systems, products, and services in the commercial and industrial sectors where the combined water and energy savings potential is very high.	While work should begin as soon as possible, this is a complex issue and is therefore a long-term effort: 5+ years.
Chapter One: Building Energy and Water Assessment and Performance Standards	Water-Energy Nexus	1.1	**B. Water and energy industry-accepted EM&V protocols** There is a need for water and energy industry-accepted evaluation, measurement, and verification (EM&V) protocols that can be utilized by standards developers to help make determinations on provisions where water and energy tradeoffs exist. Detailed EM&V protocols already exist for analyzing energy efficiency performance, but these protocols need to be revised to properly address the embedded energy savings emanating from water conservation and management programs. To date, only savings from hot water conservation programs have been included in these evaluation protocols. Interactive water and energy savings need to be properly documented where they occur, and greenhouse gas emission reduction calculation methodologies need to be revised to correctly recognize the contributions coming from the saved embedded energy in water supply, treatment, pumping, and consumer end use consumption.	While work should begin as soon as possible, this is a complex issue and is therefore a long-term effort: 5+ years.
Chapter One: Building Energy and Water	Building Envelope	1.2	**A. Window installation guidance for effective energy, air, and moisture management** Within the building envelope, windows are often the most common source of heat loss, heat gain	These activities should be conducted in the near-term: 0-2

MAINTAINING THE EESCC INVENTORY DATABASE

- SDOs requested to inform eescc@ansi.org when document previously entered as "in development" is published

EESCC Global Meetings

- The EESCC will convene periodically for global web calls (**all WGs together**)
  - 6 month hiatus to allow for internal SDO discussions (meanwhile, EESCC conducts outreach)
  - Quarterly web meetings thereafter
- Separate chapter calls to be convened if needed and warranted

Leadership

Chapter Chairs

Chapter One	Chapter Two	Chapter Three	Chapter Four
Stephanie Reiniche, ASRHAE Jim Kendzel, ASPE	Henry Green, NIBS Dan Manole, Rockwell	Lilas Pratt, ASHRAE	Bill Miller, LBNL Kevin Cooney, Navigant

Topical Area Leads

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Strategic Benefits of Participation

EESCC: A unique forum to stay **informed**, **competitive**, and **connected** on emerging issues

- **Informed**
  - Early awareness of emerging energy and water initiatives, technologies and standards
- **Competitive**
  - Influence standardization activities impacting future energy and water efficiency services and technologies
- **Connected**
  - Take part in crafting input to policymakers and decision-makers on the use of standards to address energy and water efficiency needs
  - Participate in a trusted forum whose recommendations are viewed by federal, state, and local governments for decisions regarding technical assistance, lab and industry engagement
  - Network and engage with cross-industry peers

FOR INFO AND TO JOIN: WWW.ANSI.ORG/EESCC

GET ON BOARD!

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EESCC Phase Two: Global Discussion

Building a more energy- and water- efficient built environment






for more information

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