Update from the United States
Energy Related Work in the Sub Committee
on Standards and Conformance
April 2014

M CTI 02/12 A Role of Standards and Conformity Assessment Measures in Enhancing the Performance and Energy Efficiency of the Commercial Building Sector

- U.S.-led APEC green building Multi-Year Project runs 2013-2015
- Builds on work begun in 2011
- EGEE&C is partner APEC fora
- Cooperation with ASEAN ACCSQ

Objectives

Encourage consistent, transparent, and appropriate green building standards-related measures, thus avoiding the creation of unnecessary obstacles to trade.

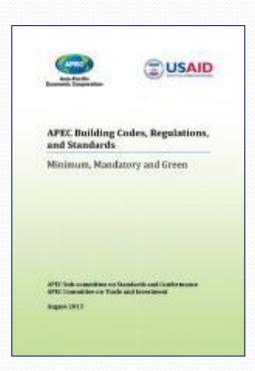
Identify best practices in standards and code development, and testing and rating of building products that support a cleaner, more energy efficient commercial building sector.

Workshop 1: Sharing Experiences in the Design and Implementation of Green Building Codes March 2013 Lima, Peru

- A joint APEC ASEAN workshop, developed and implemented in collaborative partnership with Peru
- □Informed by:
 - Peru survey "Sharing Experiences in the Design and Implementation of Green Building Codes in the APEC Economies"
 - ■U.S. study "Building Codes and Green Codes in the APEC Economies" Sharing of information, experiences, and best practices among APEC and ASEAN economies

Study: Building Codes, Regulations, and Standards

Objective: Understand how economies utilize building codes to increase building performance.



For each of the 21 APEC economies, the study provides in-depth information about:

- Approach to building regulation
 - Development, adoption, administration, enforcement
- Roles of government and private sector
- Existing building codes
 - Minimums for key elements
 - Referenced standards
- Green elements of existing codes
- Stand-alone green codes
- Protocols for monitoring, review, and assessment

Workshop 2 How Building Information Modeling (BIM) Standards Can Improve Building Performance June 2013, Indonesia

- Joint APEC-ASEAN event
- Diverse presentations by member economies and expert BIM professionals to highlight:
 - Current status of BIM standards development
 - Benefits of BIM to policymakers, architects and designers, construction industry actors, building owners, and others
 - Case study success stories showing the practical implementation of BIM projects
 - Concrete steps that can be taken by economies to increase BIM usage toward improving building performance

Start-Up Guide Building Information Modeling

• Provides economies with specific actions to take to advance BIM uptake, with associated benefits.



The Start-Up Guide details Actions and Benefits associated with:

- Defining metrics aligned with an economy's priorities
- Planning BIM policies
- BIM policy adoption
- Technology to provide the right BIM tools

Published on APEC web site

http://publications.apec.org/publicationdetail.php?pub_id=1510

Green BuildingsWork in 2014

- Work reoriented to continue emphasis on green codes and BIM
- Ongoing ACCSQ engagement
- Desire stronger linkage with EGEE&C
- 2014 Events
 - BIM Workshop
 - Green Codes Workshop

- Beijing/ SOM 3 in August
- New Orleans in October

Plans for 2014 – Other Projects

- CTI 27 2013 A Aligning Energy Efficiency Regulations for ICT Products – Implementing A Strategic Approach
 - First project under the newly formed ICT Global Energy Efficiency Convergence Forum
 - Workshop and Inaugural Meeting of ICT GEEC Forum at SOM III in Beijing, China - August 2014
 - Day 1 Government and business discussion on aligning EE regulations
 - Day 2 APEC Member regulators meet at ICT GEEC Forum

Progress

- Completed Economy survey on utilization of IEC62623 for EE testing of personal computers
- Preparing for implement of pilot projects to examine applicability of IEC E₃ program for transportability of EE test data
- Welcome collaboration with the EGEE&C

Plans for 2014 – Other Projects

- APEC Regulatory Cooperation Advancement Mechanism (ARCAM) Dialogue on Electric Vehicle (EV) Standards
 - Will build on discussions and recommendations from the 2011 ARCAM Smart Grid Interoperability Standards Dialogue
 - May 7, 2014, Qingdao, China
 - Session 1 Overview of APEC Economies' EV Regulations
 - Session 2 Challenges of Convergence in International Standards for EVs
 - Session 3 EV Technical Areas of Harmonization and Alignment
 - Session 4 Overview of Efforts in International Fora to Harmonize EV Standards
 - Session 5 What can APEC do to align EV regulations and promote harmonization of EV international standards?

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