

PSMA Energy Management Committee Meeting Minutes

@ Tue November 2, 2021 10:00-11:00am (Central) via GoToMeeting Attendees:

Giorgia Longobardi, Steve Roberts, Ada Cheng, Mike Hayes, Adel Nasiri, Dinesh Kithany, John Horzepa, Patrick Le Fèvre, Joe Horzepa, and David Chen

Agenda:

1. APEC (Houston, March 2022) Industry Session – received APEC decision on 10/27 regarding our proposal
IS22: “Are You Throwing Energy Away? Don’t, or Recover it!” (**granted 4 slots, March 24, 1:45-3:25PM**)
 - a. Regenerative braking –
 - i. **Speaker (Dachuan Yu, PhD, Engineering Manager, Power Conversion, Caterpillar) – Adel to check if speaker is okay w/ registration to technical sessions and travel**
 - b. Excess heat from data centers –
 - i. Codema speaker (Tallaght District Heating Scheme) unlikely to travel to APEC (per Mike)
 - c. Active-clamp flyback topology to recycle leakage inductance energy –
 - i. **Speaker (Sudhakar Singamaneni, Sr. Applications Engineering Manager, Power Integrations) confirmed (per David) – “Using Leakage Energy to Achieve Zero-Voltage Switching”**
 - d. Grid integration of DERs (e.g. excess solar), load balancing, and building technologies –
 - i. **Eaton contact okay to speak on storage management - Adel to check if speaker is okay w/ registration to technical sessions and travel**
 - ii. Andrei Covatariu (Task Force on Digitalization in Energy, UNECE) interested to present on policy and regulatory approaches to energy efficiency (per Long) → redirect to EE regulations roadmap project
 - iii. **Alex Gruzen (CEO, Witricity) interested to present on vehicle-to-grid (V2G) solutions - Dinesh to check if speaker is okay w/ registration to technical sessions and travel**
 - iv. **Adel Nasiri (Imagen Energy) will be back-up speaker on grid integration with vehicle charging, solar PV, and stationary storage**
 - v. **Speaker (Daniel Gerber, Lawrence Berkeley National Lab) confirmed (per David) – "Emerging Zero-Standby Solutions for Miscellaneous Electric Loads"**
 - e. Mechanical energy recovery (e.g. lifting concrete blocks in a tower)
 - i. Defer any action due to limited speaker slots
2. Appliance Energy Efficiency Regulations Roadmap Project
 - a. Update – see “PSMA_EM_EEregSC_update_02Nov2021.docx” (derived from steering committee meeting held on 10/28)
 - b. Format will be a slide deck presentation containing a high-level guide plus deeper dives on various topic areas (multiple presenters possible)
 - c. Aiming for initial *.ppt draft to review in December (Power Technology Roadmap report will be published in March; likely staged releases for this project as a webinar series throughout 2022)
3. Smart Mobility webinar – track with other PSMA committees

Next meeting: @ **Tue November 23, 2021 10:00-11:00am (Central)** via GoToMeeting

PSMA Energy Management Committee
Energy Efficiency Regulations Roadmap Steering Committee Update

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Update:

1. Arnold's outline of content
 - a. Link to COP26 – Giorgia attending tomorrow and will report back to the committee
2. Decision on deep-dive subjects [and owners]
 - a. External power supplies and battery chargers [Giorgia]
 - i. European eco-design requirements for EPS in Commission Regulation (EU) 2019/1782
 - ii. EU Code of Conduct Tier 2
 - iii. Docket Number EERE-2020-BT-STD-0006: Energy Conservation Standards for EPS
 - iv. EU Common Charger Initiative (as part of circular economy and waste reduction)
 - b. Electronic displays (inc. monitors and TVs) [David]
 - i. (EU) 2019/2021 regulation
 - ii. DOE R&D discussion
 - iii. ENERGY STAR Displays v.8
 - iv. ENERGY STAR TVs v.9
 - v. CEC amendments for monitors (20-AAER-03)
 - c. Standby regulations [David]
 - i. EU Lot 6 and Lot 26
 - ii. CEC Low Power Mode (17-AAER-12)
 - d. Greener heating and cooling [Dinesh]
 - i. UK plan to replace boilers
 - ii. New BEE star rating standards for ceiling fans in India
 - iii. GB 21455-2019 – China national standard on room air conditioners
 - e. Migration to BLDC motors [Dinesh]
 - i. Appliances - AHAM and AHRI (U.S.)
 - ii. Industrial
 - f. Digitalization in Energy [Long?] – check with Andrei Covatariu, expert for the Task Force on Digitalization in Energy, at the United Nations Economic Commission for Europe (UNECE)
 - i. Policy and regulatory point of view
 - ii. Best practices
 - iii. AI in energy management and energy efficiency
3. Action plan for contacting key players on subjects above
 - a. David to reach out to Viegand Maagøe on 2ci
 - b. Dinesh to reach out to AHAM/AHRI contacts on 2ei
 - c. David to reach out to Trinomics and Sea Green Tree on 2aiv
 - d. David to check with Long and Andrei on 2f
 - e. David to introduce Giorgia to Kannah Consulting / NEEA on 2aiii