



**Asia-Pacific  
Economic Cooperation**

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Agenda: D2 7

**APEC International Conference Alignment of  
National Standby Power Approaches - Moving  
Towards 1 Watt and Beyond**

Submitted by: Australia



**37<sup>th</sup> Expert Group on Energy Efficiency and  
Conservation Meeting  
Washington, D.C., United States  
28 February - 2 March 2011**



Australian Government  
Department of Climate Change  
and Energy Efficiency



## APEC International Conference Alignment of National Standby Power Approaches “Moving Towards 1 Watt and Beyond”



**Tim Farrell**



**APEC EGEE&C 37 Meeting - March 2011**



[www.climatechange.gov.au](http://www.climatechange.gov.au)

## About the Conference

- Held in Tokyo, Japan 19 to 21 October 2010
- Conference goal “to bring together both industry and government policy makers to:
  - Share technology approaches and power management options to lower the standby power use of appliances
  - Facilitate the coordination of policy actions and alignment of voluntary and mandatory requirements for minimizing standby power consumption in APEC Economies”
- Also supported by the Asia Pacific Partnership on Clean Development and Climate Change (APP) and IEA 4E Standby Annex

## Conference Program

- Day 1 Technology Options
  - Possibilities in components
  - Product development update
  - Standby power and total energy issues
- Day 2 Policy Approaches
  - Update on current standby power developments
  - Review of different policy approaches
  - Network standby - new challenges
- Day 3 Workshop
  - reviewed the issues raised in day 1 & 2 presentations
  - identified areas where action can be taken now
  - specified areas where more research is needed



## Fast Facts

- Over 50 participants from 12 APEC economies
- Suppliers and manufacturers accounted for almost half the audience
- 22 presentations over 2 days
- Average of 500 downloads for each presentation (most popular 1100+, minimum 240)
- 3 conference reports produced (Proceedings, Policy Options, Technology)
- Over 130 downloads of reports in first month



## Key Outcomes

- Communication of the most up-to-date information on programs, policies and technological solutions.  
(This was highlighted with one presentation showcasing a labelling program that had only been launched 5 days earlier.)
- Agreement to encourage the widespread adoption of Energy Efficient Ethernet (IEEE 802.3az) in product specifications.
- Endorsement of IEC62301 Edition 2 as accepted measurement method for low power modes.



## Key Outcomes

- Promotion of short term (2012) and medium term (2015-18) aspirational standby power limit targets.  
(This included promoting 1-watt standby in the first instance and moving to 0.5 watt in the secondary phase)
- Acknowledgment that energy wasted by network connected products is a rapidly emerging issue
- Further research and development of new policy initiatives are required to tackle waste in network-connected products



## Next Steps

- More research and development is needed to achieve a low standby power future.
  - networked products are a critical area
  - a range of research projects to improve understanding of technology and policy drivers were recommended.
  - funding and organisational ownership of these projects is required to move forward and get results.
  - a small number of these projects have been taken up by the APP project.



## Next Steps

- Develop options for long-term cooperation on standby power policy development
  - important for APEC economies to continue cooperation with participants expressing a willingness to share of data and approaches
  - international cooperation developed by APP and the IEA to address standby power should be built upon
  - groups that might assist include; APEC Energy Efficiency and Conservation Committee, APEC ESIS website; 4E Standby Annex; IEC, IEEE and other technical bodies.
- Annual surveys of APEC members recommended to assess the long-term status of standby power policy alignment



## Summary

- Conference met objectives by:
  - Providing latest global information on standby power
  - Participation of more than 20 supplier/manufacturers and 12 APEC economies
  - Developing approaches that can be promoted now and recommendations on ways to move forward
  - Conference materials viewed well over 100 times
  - Surveyed participants all benefited and gained new knowledge



## Conference Reports

- Conference Proceedings  
[http://publications.apec.org/publication-detail.php?pub\\_id=1110](http://publications.apec.org/publication-detail.php?pub_id=1110)
- Policy Alignment Options Report  
[http://publications.apec.org/publication-detail.php?pub\\_id=1111](http://publications.apec.org/publication-detail.php?pub_id=1111)
- Technology Report  
[http://publications.apec.org/publication-detail.php?pub\\_id=1112](http://publications.apec.org/publication-detail.php?pub_id=1112)
- Conference Website  
<http://www.energyrating.gov.au/standbydata/apecstandby2010.html>

