Appendix 4 - Summary of Standby Power Annex Achievements - February 2014

The IEA 4E Standby Power Annex (http://standby.iea-4e.org) was officially formed in 2009, with the first meeting held in November that year. The Annex with its membership of 10 countries has made a significant contribution in the area standby power with the following achievements over the past 5 years:

- 7 International Annex Meetings
- 4 Management Teleconferences
- Collaborations with international organizations:
  - APP - Asia Pacific Partnership
  - APEC - Asia Pacific Economic Cooperation
  - SELINA - Standby and Off-Mode Energy Losses In New Appliances Measured in Shops project
  - IEA - Energy Efficiency Unit
  - SEAD - Super Efficient Appliance Deployment Initiative
- 44 Publications (See full list on page 3):
  - 32 Reports
  - 9 Policy Briefs
  - 3 Status Updates
- 13 editions of the newsletter *Load down.*
- 7 International events:
  - Beyond 1-Watt – Towards energy efficiency in the digital age (IEA/4E/SEAD Paris Conference September 2013).
  - Networked Standby Policy Framework Workshop (IEA / 4E / SEAD and Natural Resources Canada March 2013)
  - Networked Standby Data Collection Methodology and Policy Development Workshop ((IEA/4E/SEAD Stockholm May 2012).
  - Moving Towards 1 Watt and Beyond, Conference (APEC/APP/4E Tokyo, Japan October 2010).
  - Network Standby Workshop. (APP/4E Paris, France April 2010).

- International Standby Power Workshop (4E/APP/SELINA Vienna, Austria March 2010).
- Standby Power Workshop (APP/4E Seoul Korea 2009).

Standby Power Annex - Publication List for 2009 to 2014

Reports

2014

- Beyond Network Standby: A Policy Framework and Action Plan for Low Energy Networks – Energy Efficient Strategies (to be published 4/14)
- Beyond 1-Watt: Network standby in the Digital Age – Joint IEA and 4E Standby Power Annex publication (to be published 4/14).

2013

- Power Requirements for Functions - Xergy Consulting
- Mapping Secondary Product Functions to Products and Operational Modes - Ecova

2012

- Staying Connected: Unravelling energy waste issues in network standby - Maia Consulting
- Report Overviews - Maia Consulting
  - *Overview of Estimate of the Energy Wasted by Network Connected Equipment*
  - *Overview of List of Technical Standards for Equipment Connected to Energy-Using Networks -*
  - *Overview of Provision of a horizontal policy approach to standby power*
  - *Overview of Cutting Edge Technology Feasibility Study*
  - *Overview of Power Scaling in Proportion to Data Processing*
  - *Overview of Investigation and Exploration of Network Power Consumption in Set Top Boxes, VOIP Telephones and Games Consoles*
  - *Overview of Examples of Low Energy Product Designs*
  - *Overview of Standby Power & Low Energy Networks: Issues and Directions Report*
  - *Overview of Evaluation of policies to reduce Standby Power and Development of Standard Methodology*

2011

- Evaluation of policies to reduce Standby Power and Development of Standard Methodology - Econoler
- What has the Annex Achieved – August 2011 – Maia Consulting

  Provision of a horizontal policy approach to standby power BIO Intelligence Service
- Estimate of the Energy Wasted by Network Connected Equipment - BIO Intelligence Service

- List of Technical Standards for Equipment Connected to Energy-Using Networks - BIO Intelligence Service
- Energy Reporting on Networks - Nordman
- Testing Products with Network Connectivity - Nordman
- Cutting Edge Technology Feasibility Study - ecos
- Power Scaling in Proportion to Data Processing - ecos
- Investigation and Exploration of Network Power Consumption in Set Top Boxes, VOIP Telephones and Games Consoles - ADT
- Examples of Low Energy Product Designs - ecos
    - *Standby Power: The Phantom in the Machine*
    - *Ac-Dc Power Supplies: Building a Better Brick*
    - *Battery Chargers: Getting Energized About Efficiency*
    - *Small Networking Equipment: Making the Connection to Energy Efficiency*
    - *Power Factor Correction: An Energy Effcency Perspective*
    - *Indicators and Displays: A Judicious Use of Light*

2010

- Standby Power and Low Energy Networks: Issues and Directions - Energy Efficient Strategies
- Estimating Stock Average Low Power Mode Attributes - Methodology for 4E Standby Annex - Energy Efficient Strategies
- 4E-APP-EU Standby Workshop, Vienna Summary Report and 4E-APP-EU Standby Workshop, Vienna Workshop Overview and Recommendations Detailed Report
- Standby Power Annex Communication Strategy

Policy Briefs

- Standby Power Annex Overview (SP0)
- Standby Power Global Cooperation in Action (SP1)
- Standby Power in Televisions (SP2)
- Network Standby: Finding Solutions to Energy Waste (SP3)
- Measuring Success: Evaluation Methodology for Standby Power Policies (SP4)
- Tackling Standby Power Wastage with a Horizontal Policy Approach (SP5)
- "Basket of Products" - A global approach to measuring standby power(SP6)
- Powering Functions (to be published 3/14)
- Beyond Network Standby (to be published 3/14)