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Standby Power Policy in Korea

- Standby Korea 2010 -

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Why Standby Power should be reduced?

- Standby power is “leaking electricity”
- Number of products consuming standby power is increasing
- Home networking devices are supposed to be a big enemy to standby (always waiting for network signal, i.e. ever-standby-mode)

Standby Power Loss in Korea

(Residential Sector Only, KERI, 2003)

Number of household(HH)	**15 Million HH**
Number of standby appliances per HH	**15.6**
Standby power loss per HH	**306 kWh/year**
Total nationwide standby loss	**4,600 GWh/year**
Residential standby portion of nationwide electricity use	**1.7%**
Nationwide average standby power by total home appliances	**520 MW**

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e-Standby Program of Korea

- Core program to reduce standby power
- Implemented since 1999
- Voluntary
- Energy saving mark(Energy Boy)
- Government procurement
- Target products : new product profiles yearly

  (18 products up to 2005)

Standby Korea 2010

- National Road Map toward 1 Watt or under -

Established and declared in 2005

Stage 1 (2005-2007)
Voluntary 1W Policy

Stage 2 (2008-2009)
Preparation for transition to Mandatory Policy

Stage 3 (from 2010)
Mandatory 1W Policy

Mandatory 1W Policy Instrument : MEPS & Warning label or warning word

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Products Subject to 1W Policy

◆ **Standby Power Consuming Products**

- Consumer Electronics

: TVs, VCRs, Audios, DVD Players, Set top boxes, Microwave Ovens, Cord/cordless phones

- Office Equipments

: Computers, Monitors, Printers, Fax machines, Copiers, Scanners, Multifunction devices, Modems, External power supplies(EPS)

- White Goods

: Washing machines, Dish washers, Fans

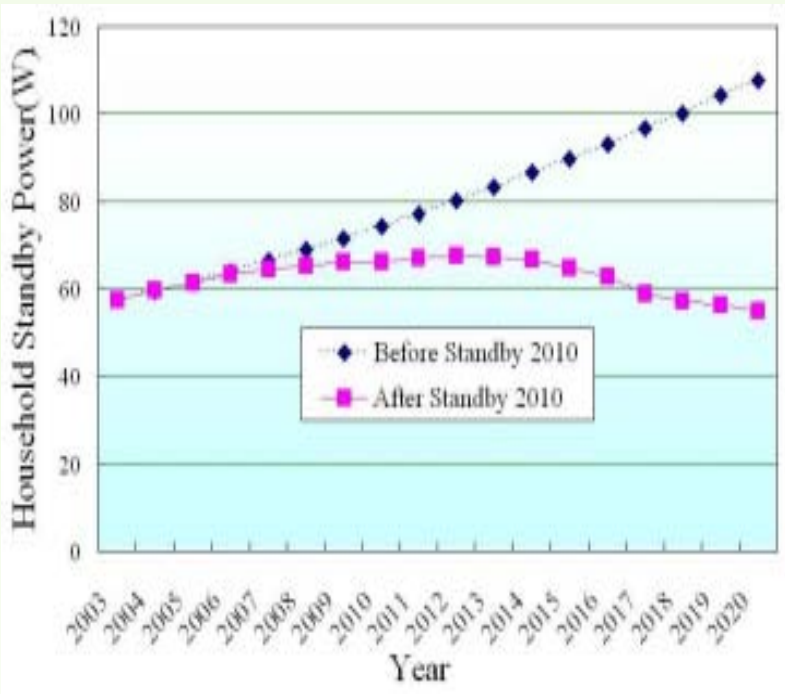
◆ **Products under the focused survey**

Home servers, xDSL modems, set top boxes, EPS

Effect of 1W Policy per Household

◆ Standby power reduction effect per household

Category	2003	2010	2020
Numbers - Off line product - Network product	15.6 (15.0) (0.6)	21.9 (20.0) (1.9)	35.7 (25.7) (10.0)
Rate of <1W products	22%	40%	80%
Standby power per product	3.7W	3.0W	1.5W
Standby power per household	57W	66W	55W



<Projected standby power per household>

Nationwide Energy Saving Effect

◆ 2010

- Saving 1,100GWh /year
- Accumulated saving : 2,550GWh by 2010
- 530 thousand ton of CO_2/year

◆ 2020

- Saving 6,800GWh /year
- Accumulated saving : 42,000GWh by 2020
- 3.29 million ton of CO_2/year

Comments on the Proposal

- Necessity of Cooperation in Energy Efficiency and Energy Conservation among East Asian Countries (Japan, Korea, China…..)
  - Lacking in information, different implementation system, different economic status
  - Some systematic approach is needed to promote *mutual understandings* in East Asia as a first step
  - EE Policy development Fund can be a probable solution to promote understandings and even further cooperation in EE between countries
- For the Successful cooperation
  - Build up counterparts in each countries
  - International partnership with Policy + Technical together
  - Concentrate in a field of easier consensus at the beginning

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