The Purpose and Outline of Energy Efficiency Standards and Labeling Policy Supporting Project; Progress to Date

March 5, 2010

The Institute of Energy Economics, Japan Global Environment and Sustainable Development Unit

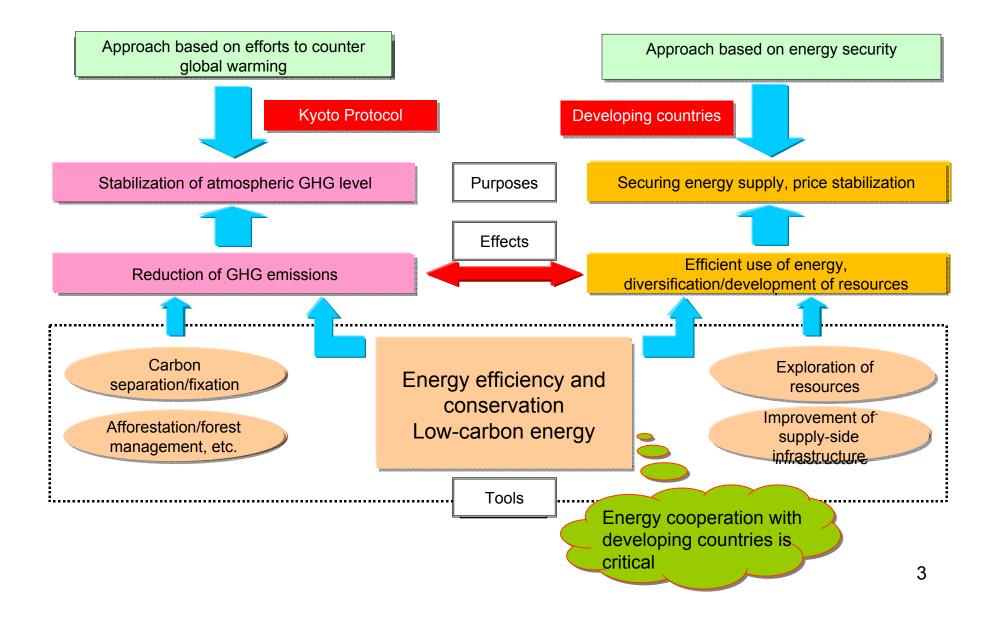
Director

Hiroki KUDO

Background of Policy Development Assistance Projects for Energy Efficiency

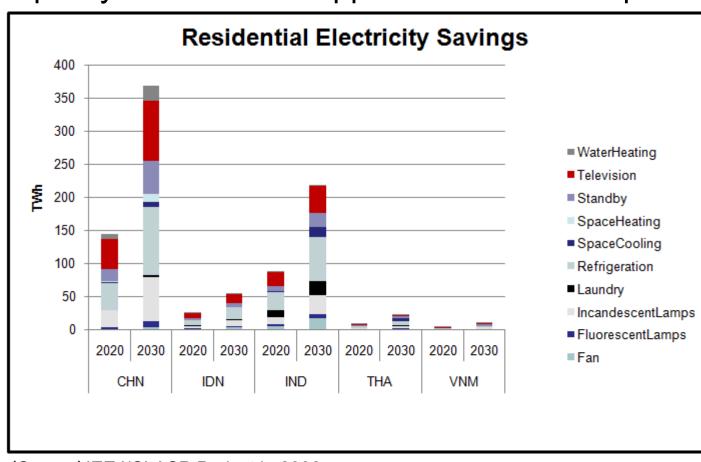
- Japan's efforts to establish a "low-carbon society" managing both climate change and energy security issues
- Need for developing countries consume energy more efficiently in order to maintain high economic growth.
- Ever-increasing importance of cooperation for regional and global optimization by employing Japanese technology and knowledge to promote higher efficiency in developing countries

Efforts to tackle climate change and energy-related issues



Potential for S&L Policy in Household Appliance Sector

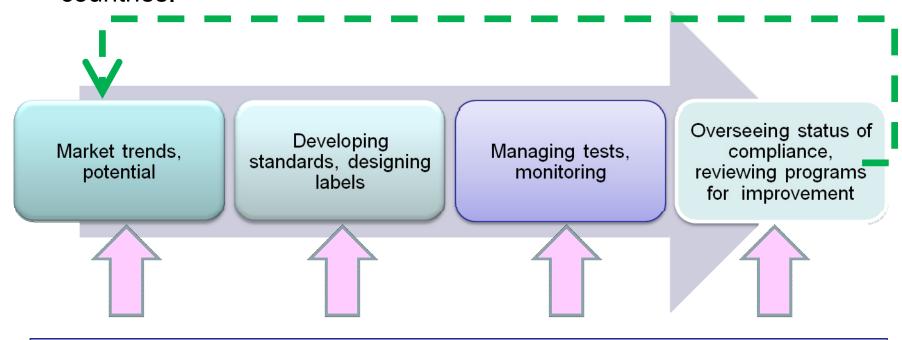
In light of future Asian economic growth, an effective S&L policy in household appliance sector is important.



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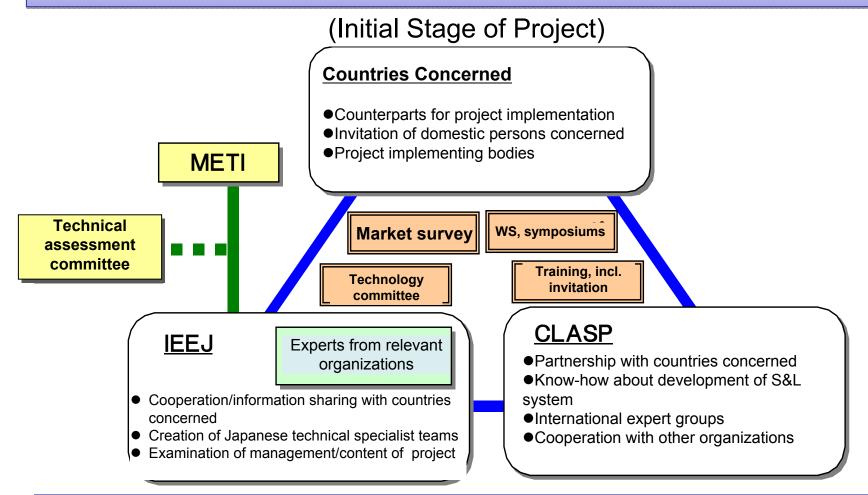
How will S&L Policy Development Assistance in the Household Appliances Sector work?

Japanese technical specialist team to support S&L policy development and improvement according to country-specific circumstances, based on detailed review of market trends, current stage of policy review and status of policy implementation in host countries.



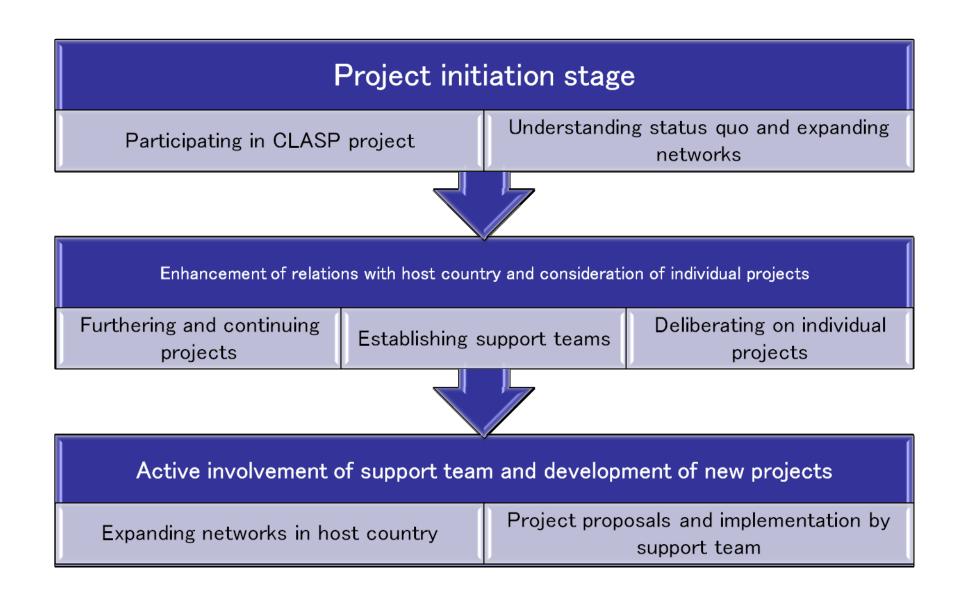
Policy Development Assistance (PDA) Team

S&L Policy Assistance Framework

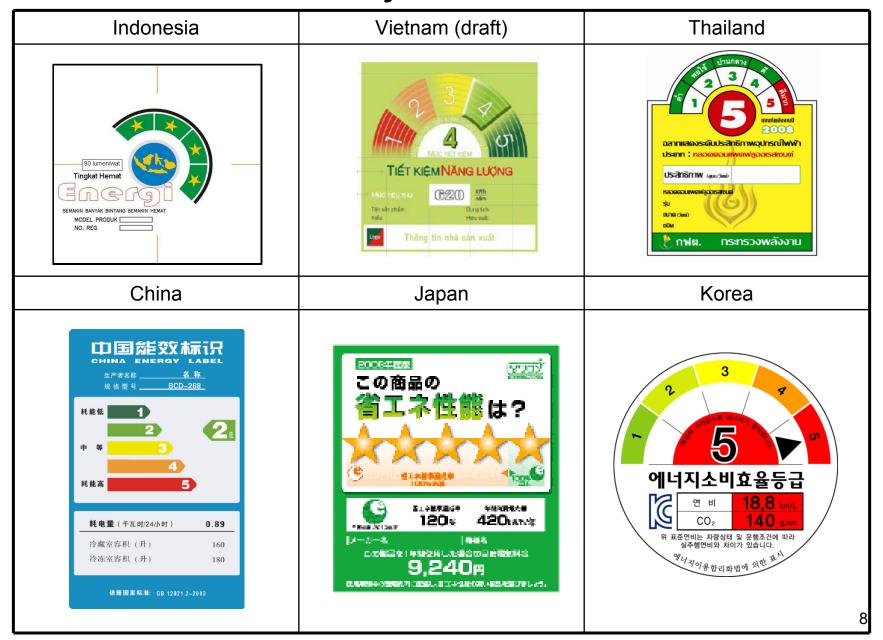


•CLASP (Collaborative Labeling and Appliance Standards Program) is an NPO based in the US devoted to the global promotion of energy efficiency. It was launched in 1996 as a initiative with a mission to support the development of energy efficiency S & L programs in developing countries, in particular, and became an international independent organization in 2005. In China, it has cooperated in promoting energy efficiency improvements, capacity-building in relevant institutions and a deeper understanding for the dynamics of energy use. The Lawrence Berkley National Laboratory (LBNL), CLASP's main partner, currently collaborates with China's CNIS to develop S&L policy and sends specialists for technical training of personnel.

Step by step for creating project scheme



Labels in Major Asian Countries



Project Outline for FY 2006~2008

2006

1) Evaluation of policy efficiency of China's home appliance S&L system

- 2) Status quo and problems with China's S&L system
- Problems with introducing and promoting goals for refrigerator and air conditioner standards

2007

Confirmation of manufacturers' compliance with self-reported labeling data and MEPS

2) Assistance for changing refrigerator label standards

2008

)

 Assistance for changing air conditioner standards in China (Joint research on unified standards for inverter air conditioners)

India

China

4) Outline of India's labeling system

Vietnam

Field survey in Vietnam (Survey for assistance potential)



- 1) Assistance for the development of Vietnam's S&L monitoring system
- Assistance for refrigerator/air conditioner testing facilities in Vietnam

Outline of Project in China, FY2009

CLASP-IEEJ Project

Air conditioning utilization study in China
(Metering 500 households)

Round Robin Test in China

Round Robin Test in China

IEEJ-CNIS commissioned project

Small Sample Metering

6 households sampled in Beijing, Guangzhou, Shanghai

Data collection for designing standards incl. APF

Proposal of methodology for policy development ____

Round Robin Test in Japan

Energy consumption survey

APF Study Team

Organization of forum for debate on air conditioning standard development with 10 Chinese parties

Accomplishments of APF Study Team

- Support team and CNIS (China National Institute of Standardization) engaged in numerous consultations.
- Participants from academic and industrial circles joined WS held by China Association of Refrigeration to discuss energy efficiency improvements and standardization in air conditioning
- Architectural and consumer specialists and industry representatives discussed status of air conditioning utilization in Beijing, Shanghai and Guangzhou: how should the average household be defined?
- Project introduced at Japan-China Energy Conservation and Environment Forum's Working Session for Top-Runner Programs to encourage shared awareness.

Vietnam Project, FY2009

Support for improvements in testing technologies at air conditioning test facilities in Vietnam

Training at test facilities in Vietnam

✓ Development of test manual to meet status quo of Vietnamese test facilities with help of Japan Refrigeration and Air Conditioning Association (JRAIA)

Training on test methods in Japan

✓ Performance tests demonstrated in presence of technical experts from Vietnamese test facilities ✓ Comparison of JRAIA and Vietnamese test results to identify issues regarding test equipment and testing methodology issues and to improve testing technologies.

Collaboration with JRAIA

Consideration of Projects in Thailand

- DEDE (Department of Alternative Energy Development and Efficiency, Ministry of Energy, Thailand) plans to develop HEPS (voluntary standards) for inverter air conditioners (possibly in summer 2010)
- Local forum for opinion exchange in response to requests from participants at 2007 symposium for this project
- Chiang Mai University leads standard development with main focus on introducing SEER (seasonal energy efficiency rating) and taking US and Japanese APF into consideration.
- Thai delegates visit Japan for hearings on background and outline of APF development in Japan, testing facilities, operations, etc. (Jan. 25-26, 2010)

Issues for Future Consideration

- Reviewing models and countries to address and considering potential for expansion.
- Enhancing networks with host country
 - ✓ Careful review and understanding of policy decision process and selection of appropriate counter, enhanced relation
 - ✓ What is the ideal method for network enhancement & maintenance?
- Establishing scheme that will adequately accommodate host country needs
 - ✓ In particular, securing experts and establishment and enhancement of collaboration with specialized institutions incl. universities
 - ✓ What is the ideal Japanese scheme? (should be founded on accumulated data and knowledge and continuity; e.g. US= CLASP, LBNL)

My deep thanks for your understanding and cooperation in our project.

Thank you very much for your attention.