The 3rd Workshop of Japan-UK Joint Research Project "Roadmap to Low-Carbon World"

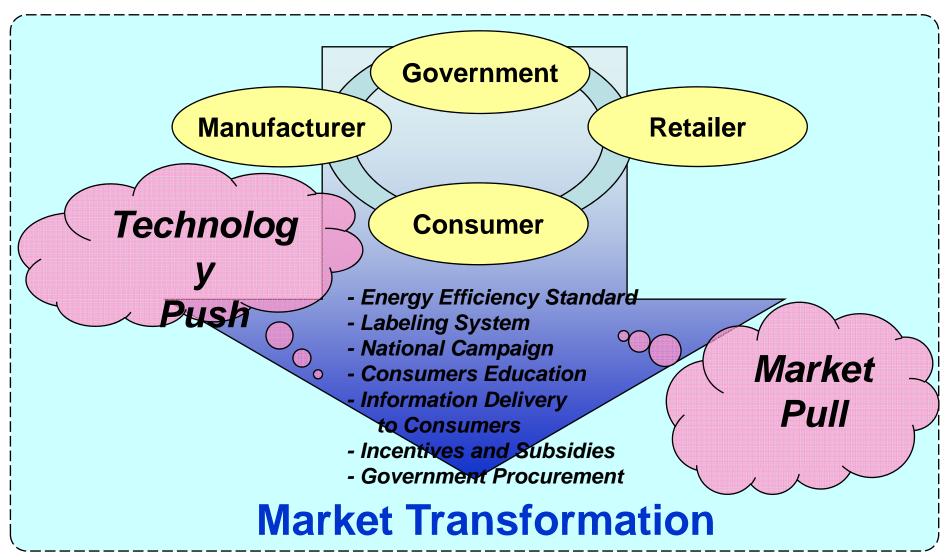
Market Transformation by Energy Efficiency Indicator

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Concept of Market Transformation

Technology push and market pull are key drivers to transform the market of individual economy



APP/BATF/Project 3: Market Transformation

Policy Analysis

- 1. National campaigns being run by individual governments and international joint initiatives
- 2. Methods to provide information to consumers e.g. labeling
- 3. Educations and supports to consumers
 - Raising consumer awareness via retailers
 - Encouraging consumers to select environmentally conscious products
- 4. Political incentives to shape leading markets

Objectives

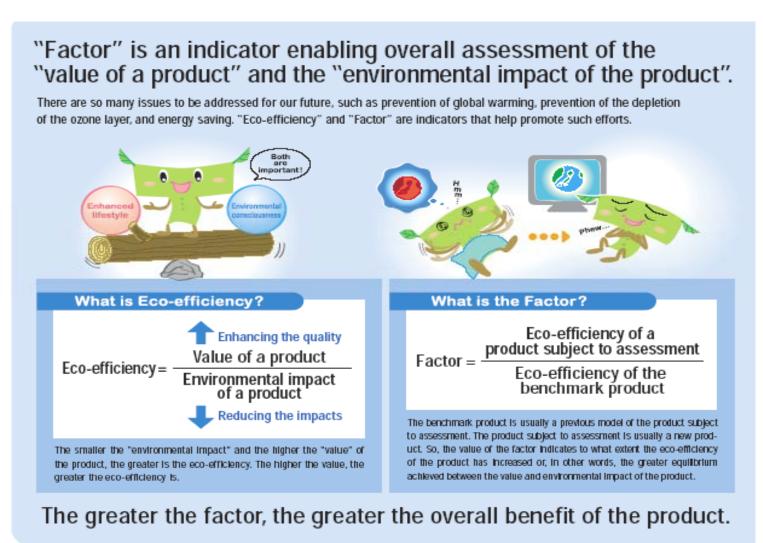
- 1. Analyze policies and programs being implemented by each country and issue the "Good Practices Handbook".
- 2. Link good practices to consider possible initiatives such as model projects in designated regions.

Recent International Discussions

- IEA (International Energy Agency)
 - Indicator Workshop (25-26 Oct. 2007, Paris)
 - ⇒ Recommendations to G8 on energy efficiency
- ISO (International Organization for Standardization)
 - TC207/SC5 TG Meeting (5 Dec. 2007, Gothenburg)
 - ⇒ Proposal for eco-efficiency standard
- APP (Asia Pacific Partnership on Clean Development and Climate)
 - BATF Meeting (15-16 Nov. 2007, Washington)
 - Project 3 Workshop (31 Jan. 2008, Tokyo)
 - ⇒ Policies analysis for "Good practices handbook"

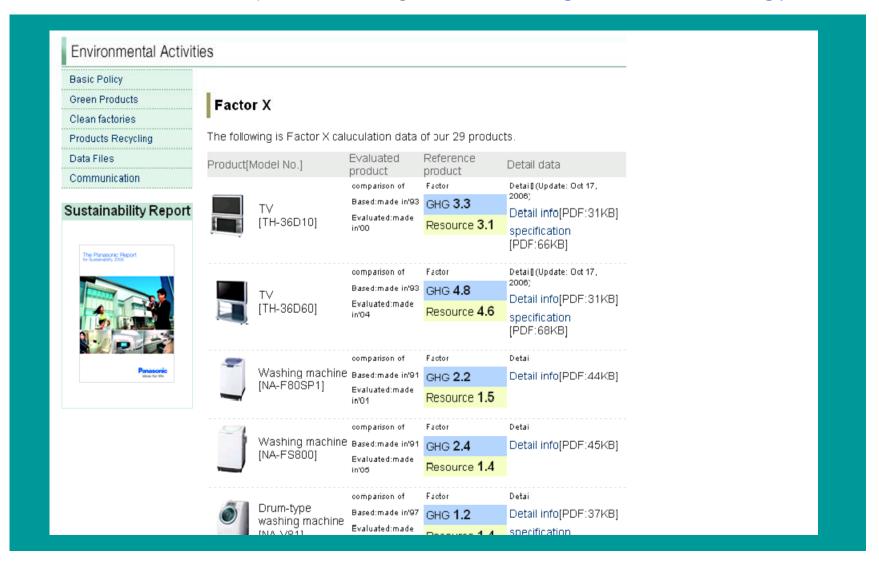
Market Pull by Indicators

To inform consumers on the importance of considering ecoefficiency of products in purchasing --- Pulling the market



Technology push by Indicators

Consumers are increasingly demanding information on the products that they are using --- Pushing the technology



Recent Trends on Eco-Efficiency in Japan

Several industries understand that eco-efficiency can be a powerful product indictor to communicate with consumers



- 8 electronics companies in Japan have agreed to develop the "Guideline for Common Factor-X" by ecoefficiency evaluation to provide meaningful indicators to the markets, creating new relationships between manufacturers and consumers.
 - Product strategy must be responding to market needs such as higher quality and environmental friendliness.
 - For standardization, it is desirable to be simple, easy to understand and clearly transparent.
 - As the environmental impact, GHG emission or energy consumption is most familiar, scientifically established and important to all the consumers.

Rationales to Develop Good Indicators

 World—wide indicators must respect and reflect individual economy's policy, current status, history, custom, etc.

If not, the indicators cannot give practical results and environmental problems would not be solved eventually.

 It is difficult to make absolute evaluation on energy consumption of each industry and product.

Improvement of efficiency is easier to understand and more acceptable for each market.

- Indicators on energy efficiency should be effective in both of technology push and market pull.
 - Manufacturers can measure the position of products with the indicator, so that they would develop better ones.
 - Consumers can know the progress of products by the indicator, so that they would buy better ones.