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Japan
Environmental
Technology
Verification

資料 3 - 4 - 3

ETV Ministry of the
Environment
<http://www.env.go.jp/policy/etv/>

Environmental Technology Verification in Japan

Office of Environmental Research and Technology
Ministry of the Environment, Japan



Ministry of the Environment,
Government of Japan

Outline

- I. Japan ETV's purpose and its history
- II. Japan ETV's feature
- III. ETV operation process
- IV. ETV framework
- V. Technology areas
- VI. ETV outcomes
- VII. Summary



Japan ETV's purpose and its history

- Japan ETV is to promote environmental protection as well as development of related environmental industry by verifying the objective environmental performance innovative technologies have.
- Technology areas to be promoted are identified where there is policy demand. Those are for example not only pollution control but also energy saving, environmental restoration, mitigation and controlling climate change related technologies.
- The history was; pilot ETV project initiated in FY2003 by the Ministry of the Environment (MOE) and it shifted into the Full-scale Project in FY2008.

Japan ETV's feature

- It tries providing objective information about the environmental performance claim in order the users to be able to make a proper selection among many options by comparing the performances, costs and other relevant factors depending upon the needs.
- It supports Innovative but not sufficiently promoted technologies due to the lack of objective proof on the environmental performance claim.

Not sure which technology is really effective and most suitable to our needs...

Prospective users



Our technology is good for the environment

Self claim by technology vendor

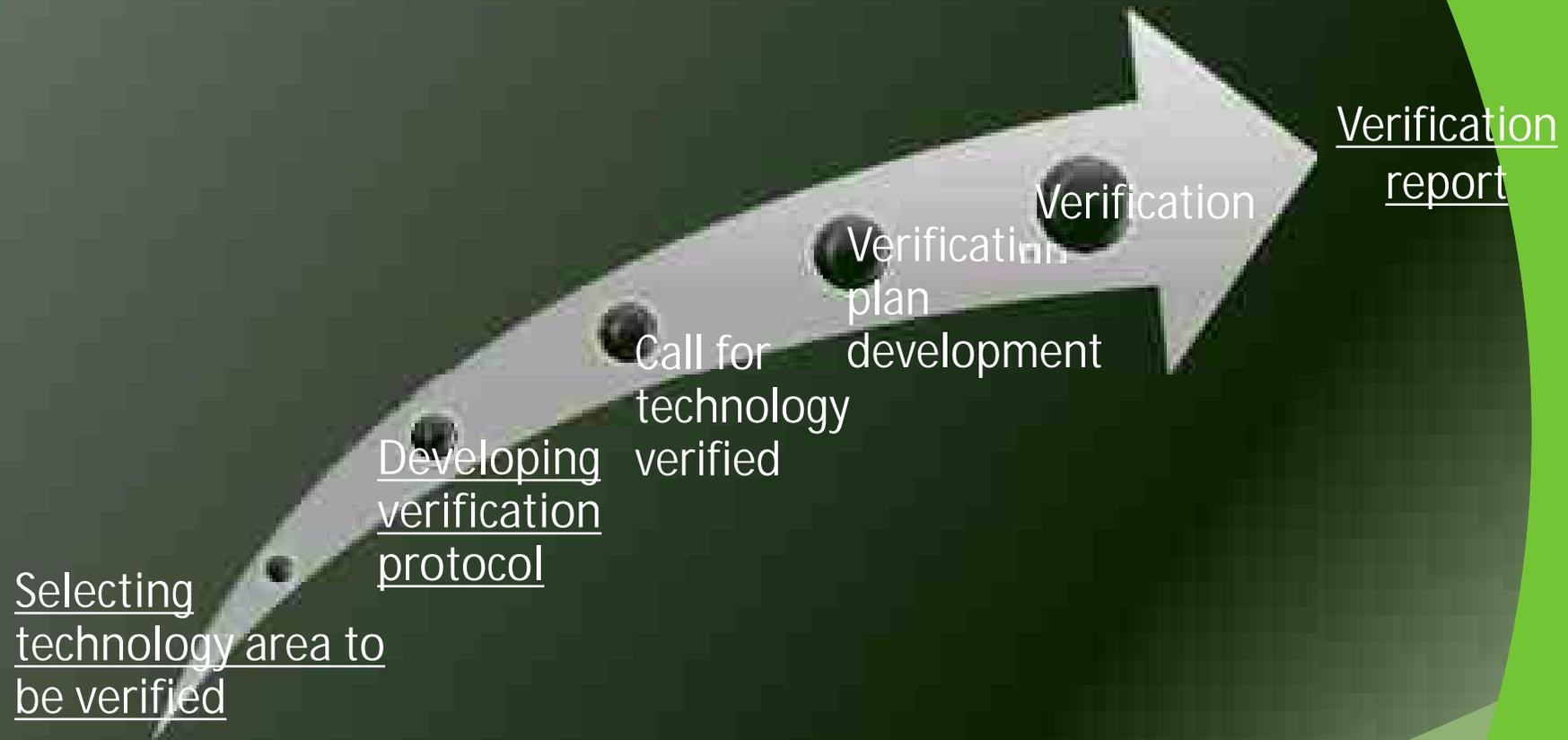
Japan ETV provides objective information on technologies

Japan ETV's feature



- Japan ETV is to provide objective information so that the users themselves can choose the most suitable and proper technology.

ETV operation process



- Technology areas are first identified in accordance with expert advisory considering the policy and social demand. As the result;
 - Verification protocol can effectively developed within available resources
 - Verification fee proposer need to spend can be lower

ETV framework



- From effective ETV's operation and management perspective, testing, analysis, and verification are all conducted by a single verification organization

Technology areas

- Areas are identified where there is important policy implications and effect

- Water treatment and monitoring



- Air pollution monitoring and abatement



- Heat-Island Mitigation Technologies



- Energy technologies



new technology area

- Verification process is conducted mainly through field testing

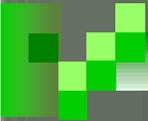
ETV outcomes

- Follow up survey to proposers was conducted
 - Credibility of technology has been enhanced
 - Operational performance has improved due to the expert advices
- Survey on technology applications
 - Sunlight Shield Window Film "Ecoshield"
(Building Envelope Systems, Proposers: Energy Saving Company Laboratory Co., Ltd. Verified in 2005)
 - Introduced : 23,000m² , various places Tokyo Tower, Municipality administrative building, university buildings, art museum and library, etc



Summary

- It provides objective information through the verification so the users can make a most suitable technology selection
- Technology areas are identified where there is policy and social demand exist, e.g. from conventional pollution control but also energy saving, environmental restoration and mitigation, heat-island alleviation
- Testing, analysis and verification all by a single Verification Organization
 - Effective ETV operational management and requesting proposers relatively lower verification fee
 - World top class, verified cases. More than 500 cases
- Japan wishes proposed draft ISO-ETV to be beneficial to the verified technologies under the Japan ETV program



Thank you for your attention