

2. 平成 22 年度 環境技術実証事業実施要領 英語版 (素案)

Fiscal 2010
Environmental Technology Verification
Project
Implementation Guidelines

April 2010

Ministry of the Environment, Japan

Preface: General Provisions

1. Objectives

The objectives of the Environmental Technology Verification (ETV) Project (hereinafter “ETV Project”) are to establish methodologies and systems for the verification of environmental technologies, to promote the spread of those technologies, and to contribute to the advancement of environmental conservation and environmental industries. These objectives are achieved through the implementation of this project involving objective, third-party verification for the environmental conservation effects, etc., of innovative environmental technologies that are already available, but are not yet widely used due to the lack of objective assessments of their environmental conservation effects, etc.

2. Definition of “Verification”

Under this project, "verification" means the process by which objective data based on tests, etc., for the environmental conservation effects of an environmental technology, as well as its secondary environmental impacts and other important aspects of performance from environmental perspective (hereinafter collectively referred to as “environmental conservation effects”), are indicated by third parties who are neither developers nor users of the said technology.

“Verification” differs from “certification,” whereby certain evaluation standards are established and then compliance is judged based on those standards.

3. Basic Stance on Cost-Sharing, etc.

Under the Project, until a verification system is established, no fees will be collected, and the national government will cover the majority of costs (hereinafter “government-sponsored system”). However, in the interest of burden-sharing with beneficiaries, generally by the end of two years from the start of verification in each technology field, this will shift to a system called “fee-based system”, that means, developers, vendor, etc., who want their technology to be verified (hereinafter “Verification Applicants”) have to pay fees of the Project. In these Implementation Guidelines, hereafter the implementation methods will be specified in two separate categories: a government-sponsored system (Section 1), and a fee-based system (Section 2).

In order to maximize the benefits of technology verification under this Project, the

Ministry of the Environment (hereinafter “MOE”) will actively consider utilization of data on these performances and the other aspects of technologies for which verification has been completed under projects besides this Project.

The technology fields that will be covered in fiscal 2010 under each system are as follows:

- Government-sponsored system: Simplified VOC Treatment Technologies, and Heat-Island Mitigation Technologies (Heat Pump Air Conditioning Systems Using Underground Heat, Wastewater, etc.)
- Fee-based system: Organic Wastewater Treatment Technologies for Small-Scale Establishments, Water Purification Technologies for Lakes and Reservoirs, Heat-Island Mitigation Technologies (Technologies for Reducing Air Conditioning Loads by Using Building Envelope Systems), Human Waste Treatment Technologies in Natural Area, and Water Environment Improvement Technologies in Enclosed Coastal Seas

4. Special Measures Relating to Implementation Methods

When shifting from the government-sponsored system to the fee-based system, in case there are unresolved issues, for the project implementation in the said technology field, MOE may give priority to the resolution of those issues irrespective of the provisions of Section 2. However, even then, rather than continuing the system of Section 1, an effort shall be made to establish a fee-based system as soon as possible, such as by conducting at least the minimum confirmation tests based on the advice of the Advisory Committee on the ETV Project and WGs.

5. Basic Stance on Disclosure of Information

Under the Project, MOE and the other participated organizations ensure disclosure of information via various media, and work to promote the Project through a variety of events as well.

MOE keeps collecting information on similar programs of environmental technology certification, recognition, etc., by public institutions inside and outside MOE, and work to present information properly to the people on a portal site. As for similar overseas programs, MOE shall work to exchange information with overseas organizations, and present it on the website as well.

Section 1: Implementation by Government-Sponsored System

Chapter 1: Institutional Arrangements for Implementation of Verification Project

1. Ministry of the Environment

MOE shall select target verification technology fields, conduct technical development of test methodologies, prepare Protocols (verification test guidelines), select Verification Organizations, and publish verification test results and related information on the website, as well as operate and manage the overall Project, and conduct comprehensive discussion about verification methodologies and the establishment of institutional arrangements for verification.

2. Advisory Committee on the Environmental Technology Verification Project

The Advisory Committee on the Environmental Technology Verification Project (hereinafter “Advisory Committee on the ETV Project”), established on request of the Director of General Environmental Policy Bureau of MOE, shall discuss and provide advice based on professional expertise, regarding basic matters relating to implementation of the Project, including the tasks conducted by MOE.

3. Working Groups

The working groups (hereinafter “WGs”) established by MOE (i.e., by its departments and bureaus) in each target technology field shall discuss and provide advice based on professional expertise (for each field), regarding matters handled by MOE, including the preparation of Protocols, and the selection of Verification Organizations. WGs are composed of experts including academic experts and representatives of users, and their activities shall be open to the public in principle. In addition, WGs shall assist the Advisory Committee on the ETV Project, with their professional expertise on the field.

When appropriate, several target technology fields may be bundled into one WG. In addition, in order to develop more effective systems, an enlarged-WG (stakeholders’ conference) that includes the representatives of vendors, etc., may be held when needed. As for WGs and enlarged-WGs concerning discussion on the selection procedures of Verification Organizations, it is permitted to be undisclosed because business secrets may be included in the discussion.

4. Verification Organizations

Verification Organizations shall issue open invitations for target verification

technologies to corporations and other entities; select technologies to be targeted for verification; prepare Verification Test Plans; verify technologies (implement verification tests); prepare verification test result reports; and submit the reports to MOE. Plural Verification Organizations may be established in each technology field, to the extent permitted by budgets.

5. Technology Panel

A Technology Panel, established by the Verification Organizations, shall discuss and provide advice based on professional expertise, regarding matters relating to implementation of tasks conducted by the Verification Organizations. The Panel shall consist of experts on these matters (academic experts, representatives of users, etc.).

6. Organization for Developing Verification Test Methods

MOE may subcontract technology development of verification test methodologies to an appropriate organization when there is no relevant verification test method on a certain verification item.

Chapter 2: Selection of Target Technology Fields

1. MOE shall select technology fields to become the targets of the verification project based on the discussions of the Advisory Committee on the ETV Project and WGs, while keeping in mind the following considerations:

- (1) Technology fields for which a need exists for verification, from the perspective of developers and users (local governments, consumers, etc.)
- (2) Technology fields for which technology verification would be effective in spreading and promoting the technologies
- (3) Technology fields for which technology certification or recognition has not been implemented yet under other programs (excluding the technology field for which technology certification or recognition has already been implemented under a program of a local government, etc., but the program may become more effective if MOE assists it).
- (4) Technology fields for which verification is feasible
 - a) Technology fields for which verification is feasible, from the perspective of budgets, institutional arrangements for implementation, etc.
 - b) Technology fields for which it is feasible to establish a Protocol
- (5) Fields for which utilization of information relating to the said technology fields would facilitate government administration (from national perspective) of

environmental affairs

2. MOE may temporarily, or on an ongoing basis, halt or eliminate a target technology field, after obtaining advice from the Advisory Committee on the ETV Project where necessary, in the event that a previously-selected target technology field has become inappropriate for practical reasons; for example, when verification has become inappropriate in view of the considerations presented in paragraph 1, or when it is thought that there would be no response to the open invitations for the target technologies. However, in cases where a target technology field has been halted or eliminated, the notice of halt or elimination and its reasons shall be made public.

3. MOE may choose to continue with the same target technology fields in fiscal 2010 and thereafter, based on discussions of WGs regarding the technology fields targeted in fiscal 2009, and after reviewing the institutional arrangements for implementation of Protocols, etc.

Chapter 3: Establishment of Protocols

1. MOE shall establish a Protocol for each target technology field, with reference to the “Components of Protocols” (Annex 1) and based on the discussions of WGs. Protocols shall be revised, as required, based on the results of verification tests and on consideration of scientific and technological progress.

Note: For the relevant technology fields in Section 1, it is not necessary to consider “fee categories” referred in Annex 1 because they relate only to Section 2 of these Guidelines.

2. Where no suitable methodologies exist for the verification test of a certain verification item, MOE may request the Organization for Developing Verification Test Methods to develop techniques for implementation of the verification test.

Chapter 4: Selection of Verification Organizations

1. Procedures for the Selection of Verification Organizations

(1) For each target technology field, MOE shall issue invitations for Verification Organizations after discussions in the WG for the field. If necessary, MOE may serve as the Verification Organization, based on the premise that the participation of related organizations shall never be prevented by it.

(2) An organization desiring to become a Verification Organization shall submit to MOE

an application form specified by the Ministry, together with the relevant documentation relating to the verification arrangements, etc., including any administrative work that will be commissioned to external organizations.

(3) On receipt of applications indicated under (2), MOE shall select Verification Organizations, keeping within the budget available, while referring to the considerations stated in paragraph 2 and to the discussions in the WGs.

(4) MOE shall enter into commission or contract agreements with Verification Organizations selected under (3), and the Verification Organizations shall conduct verifications in accordance with the provisions of Chapter 7, Section 1.

Note: For some target technology fields, if the organization that has participated in this project (including the previous pilot project) as a Verification Organization by last FY desires to continue being the Verification Organization of the same target technology field, instead of step (2) above, the organization shall be accepted as such by informing MOE accordingly in writing according to a predetermined format during the application period presented in (1).

2. Considerations for Selection of Verification Organizations

In selecting Verification Organizations, document reviews, and interviews where necessary, shall be conducted after clarifying the requirements for Verification Organizations, with consideration of the following points.

(1) Institutional Arrangements

- Does the applicant have adequate institutional capacity and personnel to fulfill the functions of a Verification Organization?
- Are specific task allocation and accountability arrangements clearly defined between organizations?
- Does the applicant have quality control systems in place that comply with standards such as JISQ9001 (ISO9001) “Quality Management Systems: Valid Requirements,” and JISQ17025 (ISO/IEC1705) “General Requirements for the Competence of Testing and Calibration Laboratories”?
- Does the applicant document the quality control systems established?
- Does the applicant conduct regular internal audits?
- Does the applicant maintain records relating to verification tasks?

(2) Technical Capacity

- Does the applicant have an adequate track record for the technology fields?

Note: For a newly-established organization, does the applicant have personnel who possess an adequate track record for the technology fields?

- Does the applicant possess personnel and test facilities with adequate technical capacity to implement verification tests? (This does not preclude implementation by external organizations, based on subcontracts or contract agreements, where necessary, for a portion of the verification test.)

Note: Regarding an organization that does not possess its own test and research organization, it should be clear that the organization is capable of fulfilling its role as a Verification Organization through association with an organization that does possess adequate institutional and technical capacity, in terms of the perspectives stated in (1) and (2) above.

(3) Assurance of Impartiality

- Is there any concern that information and treatment will differ depending on the Verification Applicant, in terms of procedures such as selection of target verification technologies and operation of verification tests?
- Is there any concern about procedures for preservation of confidentiality of technical information, etc., obtained through verification tasks will differ depending on the Verification Applicant?

(4) Assurance of Fairness

- Is there any concern about obstacles to fair implementation of verification tests, caused by advice or other conduct favoring any particular Verification Applicant?
- Is there any concern that special interests, such as with a particular Verification Applicant, will affect procedures such as selection of verification target technologies and operation of verification tests?
- Does the applicant implement proper handling, record-keeping and rectification measures, with regard to disputes, complaints, etc., from Verification Applicants?

(5) Fiscal Basis

- Does the applicant have an adequate fiscal basis and financial independence to fulfill the functions as a Verification Organization?
- Does the applicant conduct regular accounting audits?

(6) Adequacy of Cost Estimation

- Does the applicant estimate costs based on the specifications defined by MOE so that it can conduct verification tasks appropriately?

Chapter 5: Selection of Target Technologies for Verification

1. Procedures for the Selection of Target Technologies

- (1) The Verification Organization shall issue open invitations for target technologies for each target technology field. A party that desires to receive technology verification

(hereinafter “Verification Applicant”) shall submit an application to the Verification Organization.

- (2) The Verification Applicant shall complete the verification application, providing the required information, and submit the application along with the specified documents. The contents of the verification application shall be as stipulated in the Protocol.
- (3) The Verification Organization shall select the target technologies from the technologies for which applications were received, referring to the considerations in paragraph 2 and based on consideration of discussions in the Technology Panel and other factors, and obtain approval from MOE. In the interest of avoiding duplication in implementation of the budget, in cases where MOE finds that more than one application have been made to Verification Organizations for what appears to be the same technology, it may coordinate discussions between the Verification Organizations so that the verification is conducted by only one of them.
- (4) The Verification Organization shall notify all applicants (including applicants who were not selected for target technologies) of the results of selection of target technologies. In addition, the outline of the target technologies selected shall be disclosed by the Verification Organization and MOE.

2. Considerations for Selection of Target Technologies

A Verification Organization shall make a comprehensive judgment regarding selection of target technologies based on the viewpoints shown below, while considering the opinions of the Technology Panel and others. MOE may, based on discussions of WGs, as required, apply additional considerations for selection relating to environmental conservation effects or other factors for each technology field.

(1) Factors related to the Application

- a) Does the technology described on the application fall under a target technology field?
- b) Is the application complete?
- c) Is the technology in a commercial phase?
- d) Has no similar verification been conducted in the past for a similar technology, using public funds?

(2) Feasibility of Verification

- a) Is verification feasible from the perspective of budgets, institutional arrangements for implementation, etc.?
- b) Can an appropriate Verification Test Plan be prepared?

(3) Environmental Conservation Effects, etc.

- a) Can the principle and mechanism of the technology be scientifically explained?
- b) Does not the technology raise any secondary environmental problems or concerns?
- c) Are significant environmental conservation effects expected?
- d) Is it an innovative technology?

Chapter 6: Preparation of Verification Test Plans

1. A Verification Organization shall prepare a Verification Test Plan in order to specify detailed test criteria, etc., based on a Protocol, through discussion with Verification Applicants, and after consideration by the Technology Panel, and submit the Verification Test Plan to MOE. MOE, where necessary, may express an opinion to the Verification Organization regarding the Verification Test Plan.

2. A Verification Applicant shall submit to the Verification Organization a written statement indicating agreement with and acceptance of the contents of the Verification Test Plan.

3. Regarding paragraph 1, for a given technology, a Verification Organization may, after discussion with MOE and admittance of a verification applicant, and as necessary, be permitted to adopt test methods that differ from a Protocol, in cases where it is appropriate to modify part of the test methods specified in the Protocol, where there is a concern that the environmental conservation effects, etc., of the said technology may not be properly verified if done in accordance with the Protocol that apply to the said technology, such as in cases where secondary environmental impacts may arise that were not anticipated in the said Protocol due to the characteristics of the said technology.

Chapter 7: Implementation of Verification Tests

1. A Verification Organization shall conduct a verification test for each target technology, based on a Protocol and a Verification Test Plan.

2. A Verification Organization may, where necessary, instruct an external organization to implement a portion of the verification test, based on a subcontracting agreement, etc. When this is done, the Verification Organization shall provide instructions and supervisions to ensure that the said external organization conducts the verification test in accordance with a Protocol and a Verification Test Plan.

3. Instead of conducting the whole or a part of the verification test required for verification of a technology, a Verification Organization may have a Verification Applicant submit data it possesses, and review it on condition that the following requirements are all met.

- (1) The Protocol specifies that the verification test may be omitted.
- (2) The Verification Test Plan specifies the scope of omission of the verification test.
- (3) The organization that acquired the said data and its quality criteria are specified in the Protocol and the criteria are met.

Chapter 8: Preparation of Verification Test Result Reports

1. After discussions in the Technology Panel, a Verification Organization shall compile a verification test result report, and obtain the approval of MOE for it. When preparing the report, it shall be in accordance with the contents and document formats for the verification test result report as prescribed in the Protocol.

2. The Verification Organization shall provide notice to the Verification Applicant regarding the verification test result report for which approval has been obtained. MOE, after approving the report, shall without delay issue to the applicant a Logo and a verification number as prescribed in chapter 10, section 1 through the Verification Organization.

3. Regardless of the results of verification tests, all verification test result reports shall be entered into a database and made public according to the provisions of the following chapter.

Chapter 9: Preparation of Website

1. With the aim of providing information to users via Internet, MOE shall organize information on environmental technologies for which verification has been completed, and create a website to provide it. MOE shall provide the information effectively so that users can utilize the information organized.

2. MOE shall provide, via the website, information including Protocols, Verification Test Plans and verification test result reports. As the need arises, MOE shall also provide relevant information such as open invitations for Verification Organizations and verification technologies, and discussions in the Advisory Committee on the ETV Project.

3. MOE shall prepare English versions of the outlines of Protocols and verification test result reports from the contents of the website, and make the information available outside Japan.

Chapter 10: Use of Logo

1. Objective

To publicize this project to the general public, promote the spread of environmental technologies, and stimulate economic activities through the development of environment conservation and local environmental industries, the logo indicated in Annex 2 is specified as the logo of the ETV Project of MOE (hereinafter “Logo”).

2. Type of Logo

- (1) As shown in Annex 2, there are two types of Logo: the logo on which information common to all technologies is written (hereinafter “Common Logo”) and the one on which information specific to each target technology is written (hereinafter “Individual Logo”).
- (2) Information specific to each target technology written on the Individual Logo and its position on the logo shall be unified for each technology field, and they shall be determined in each WG.

3. Use of Logo

- (1) The Logo that is permitted to be used shall be the Common Logo and the Individual Logo.
- (2) The Logo shall be used positively for the following purposes on condition that the provisions of paragraph 4 are observed. Neither notification to nor approval of MOE, Verification Management Organizations or Verification Organizations (hereinafter “Organizations Related to the ETV Project”) is specifically required for usage of the Logo.
 - a) The Logo shall be used to introduce this project to the general public through newspapers, magazines, academic papers, websites, etc.
 - b) It shall be used for introduction, advertisement, etc., of target technologies whose verification test result reports have been approved by MOE.
 - c) It shall be used by an organization that has been selected as a Verification Management Organization or a Verification Organization in order to indicate the fact of being selected as such during the period specified.

- d) If an activity for environmental conservation is being performed using a technology verified, the Logo shall be used during the period in order to indicate that fact.
- (3) If an organization desires to use the Logo for the objective of paragraph 1 by any reason other than those described in paragraph (2) above, it shall consult with MOE.

4. Method of Display

(1) Method of Display of Logo

- a) The color scheme of the Logo shall be as indicated in Annex 2, and no other color schemes may be used.
- b) The Logo shall be displayed in a way that makes it easily distinguishable as an independent mark.
- c) The Logo shall not be cut, divided into parts, or modified in any way. However, the size of the Logo as a whole may be varied.
- d) Where the Logo is used on a website, a link shall be provided from it to the website of the ETV Project (<http://www.env.go.jp/policy/etv/>).

(2) General Points to be Observed regarding the Logo

- a) The Logo shall not be used in any way whatsoever that implies a guarantee, certification, or approval by the Organization Related to the ETV Project with regard to the business entity, product, technology, service, etc., associated with the target technology that has been verified
- b) The Logo shall not be used as a part of the name of any product, service, technology, etc.

Note: When a Verification Applicant uses the Logo to introduce or advertise the technology, the following points must also be observed.

- c) The Logo shall be located adjacent to the name, etc., of the verified target technology, so as to facilitate clear identification of the verified target technology. If the verified target technology is used only for some of the plural models in a product series, the scope to which the Logo applies shall be indicated clearly. If any difference in performance exist, or may exist, between the product used in the verification test and the commercial product used by general users, main elements that cause the difference shall be indicated clearly. If any doubts arise as to the scope of the Logo, the Verification Applicant shall consult with MOE.
- d) If the Logo is used for introduction of the technology or other use, it shall not be used independently, and the following statement shall always be displayed adjacent to the Logo: “The name and the Logo of the ETV Project do not imply any guarantee, certification, or approval by MOE or related organizations with regard

to the technology or its performance.” The statement shall be displayed in a size large enough to be read without difficulty.

5. Improvement Orders, etc.

MOE may issue an order that rectify or halt the use of the Logo, to a party that uses the Logo in a way that contravenes these Implementation Guidelines.

6. Transitional Measures

The Logo that was printed on products, catalogues, etc., before these Implementation Guidelines are enforced may be used as it is. The Logo specified in these guidelines may also be used for the technologies that have been verified during the period of the Environmental Technology Verification Pilot Project. In such a case, the verification number issued in the project shall be used as it is.

Chapter 11: Treatment of Intellectual Property

1. Verification Organizations shall not use information relating to the environmental technologies of a Verification Applicant that has been obtained through verification tests, for any purpose other than technology verification. When providing confidential information associated with the said technology to a Verification Organization, a Verification Applicant may demand that the Verification Organization conclude a declaration of obligation of confidentiality in a format specified separately by the Verification Organization.

2. If rights (hereinafter “a patent, etc.”) stipulated in Paragraph 1, Article 19 of the Industrial Technology Enhancement Act are newly acquired based on the results of implementation of a verification test, MOE may not assume that patent, etc., from the Verification Organization. Regarding the handling of the said patent, etc., the Verification Organization shall consult with MOE as required, and strive to use the said patent, etc., giving due consideration to its effective use.

3. Any copyrighted works that were prepared in association by the implementation of this project, such as Protocols and verification test result reports, shall be the copyright of MOE.

Chapter 12: Cost Allocation

Under this verification project, in principle, the Verification Applicant shall bear the

costs required for delivery and installation of the target technology at the test facility, operation of the target technology in cases where the verification test is conducted in-situ, and removal and return of the target technology after completion of the test; MOE shall bear the costs of measuring the environmental conservation effects of the target technology, etc. Details on this matter shall stipulate in a Protocol.

Chapter 13: Disclaimers

1. With the exception of intentional damage or gross negligence, the Organizations Related to the ETV Project such as MOE and Verification Organizations shall not bear any responsibility whatsoever, in the event that any losses occur in connection with implementation of this verification project, such as breakdowns or damage to the equipment of the Verification Applicant.

2. With the exception of intentional damage or gross negligence by a third party, the Verification Applicant shall bear responsibility in the event that any damages/injury occur to a third party, due to equipment defects, and the Organizations Related to the ETV Project such as MOE and Verification Organizations shall not bear any responsibility whatsoever.

3. In the event that any dispute arises between a Verification Applicant and a third party, in connection with public release of a verification test result report, the Organizations Related to the ETV Project such as MOE and Verification Organizations shall not bear any responsibility whatsoever.

4. In the event that any changes are made to specifications that affect the basic performance of a target technology, after the change, the data in a verification test result report shall not be applicable to the said technology.

5. In the event that any problem is made to uses of the Logo, the Organizations Related to the ETV Project such as MOE and Verification Organizations shall not bear any responsibility whatsoever.

Chapter 14: Evaluation of Status and Results of Project Implementation, and Reflecting Findings in the Project in Subsequent-Years

1. In order to improve the methodologies and institutional arrangements of environmental technology verification, MOE shall conduct assessments in the Advisory

Committee on the ETV Project regarding the status and results of implementation of the ETV Project, with the involvement of representatives of each participating party, and reflect the findings in the project during subsequent fiscal years. In addition, in order to grasp the results of verification, MOE shall regularly seek to determine the extent of market expansion due to verification and the effectiveness of the verification results, targeting corporations that have undergone verification of a technology.

2. Verification Organizations may implement changes to a portion of these Implementation Guidelines after obtaining the approval of MOE, in order to ensure flexibility of implementation.

Section 2: Implementation by Fee-Based System

Chapter 1: Institutional Arrangements for Implementation of Verification Project

1. Ministry of the Environment

MOE shall be responsible for selection of target technology fields for verification, selection of Verification Management Organizations, technical development of verification test methodologies, and public release of relevant information such as verification test results on a website, and shall conduct policy making and operation of the whole verification project.

2. Advisory Committee on the Environmental Technology Verification Project

The Advisory Committee on the Environmental Technology Verification Project (hereinafter “Advisory Committee on the ETV Project”), established on request of the Director of General Environmental Policy Bureau of MOE shall discuss and provide advice based on professional expertise, regarding basic matters relating to implementation of the ETV Project, including the tasks conducted by MOE.

3. Verification Management Organizations

- (1) One Verification Management Organization may be established for each technology field.
- (2) The Verification Management Organization shall prepare Protocols, and conduct selection of Verification Organizations, as well as commission verification tests to Verification Organizations, and establish categories for fees associated with verification tests and collect them from Verification Applicants (With regard to collection of fees, the Verification Management Organization may commission the task to a Verification Organization in cases where MOE judges that it is efficient for operation of the project and appropriate implementation is ensured). In addition, the Verification Management Organization conducts survey and other activities required to smoothly promote the project in the target technology field. Moreover, as required, the organization may conduct technical development of verification test methodologies on behalf of MOE. It is desirable that Verification Management Organizations positively perform activities such as provision of information along with tasks commissioned or subcontracted by MOE, in order to spread environmental technologies of the said field.
- (3) A Verification Management Organization shall be granted to combine the function as a Verification Organization in appropriate cases, in view of the considerations

presented in paragraph 2, Chapter 5, Section 2 of these Implementation Guidelines, referring to the selection of Verification Organizations in the said technology field. However, to avoid excess centralization of operation, in principle, the activities of the Verification Management Organization as a Verification Organization are expected to be minimized. (Related provision: paragraph 1, Chapter 6)

4. Working Groups

The working groups (hereinafter “WGs”) established by the Verification Management Organization in each target technology field shall discuss and provide advice based on professional expertise (for each field), regarding matters handled by the said Verification Management Organization, including the preparation of Protocols, and the selection of Verification Organizations. WGs are composed of experts including academic experts and representatives of users, and their activities shall be open to the public in principle. In addition, WGs shall assist the Advisory Committee on the ETV Project, with their professional expertise on the field.

When appropriate, several target technology fields may be bundled into one WG. In addition, in order to develop more effective systems, an enlarged-WG (stakeholders’ conference) that includes the representatives of vendors, etc., may be held when needed. As for WGs and enlarged-WGs concerning discussion on the selection procedures of Verification Organizations, it is permitted to be undisclosed because business secrets may be included in the discussion.

5. Verification Organizations

Verification Organizations shall establish the specific amounts of fees for verification procedures; issue open invitations for target verification technologies to corporations and other entities; select technologies to be targeted for verification; prepare Verification Test Plans; verify technologies (implement verification tests); and prepare verification test result reports. Plural Verification Organizations may be established in each technology field, to the extent permitted by budgets.

6. Technology Panel

A Technology Panel, established by the Verification Organizations, shall discuss and provide advice based on professional expertise, regarding matters relating to implementation of tasks conducted by the Verification Organizations. The Panel shall consist of experts on these matters (academic experts, representatives of users, etc.).

7. Organization for Developing Verification Test Methods

MOE or Verification Management Organizations may subcontract technology development of verification test methodologies to an appropriate organization when there is no relevant verification test method on a certain verification item.

Chapter 2: Halt or Elimination of Target Technology Fields

MOE may temporarily, or on an ongoing basis, halt or eliminate a target technology field, after obtaining advice from the Advisory Committee on the ETV Project where necessary, in the event that a previously-selected target technology field has become inappropriate for practical reasons; for example, when verification has become inappropriate in view of the considerations presented in paragraph 1, Chapter 2, Section 1 of these Implementation Guidelines, or when it is thought that there would be no response to the open invitations for the target technologies. However, in cases where a target technology field has been halted or eliminated, the notice of halt or elimination and its reasons shall be made public.

Chapter 3: Selection of Verification Management Organizations

1. Procedures for the Selection of Verification Management Organizations

- (1) MOE shall issue open invitations for Verification Management Organizations, receiving advice, as required, from the Advisory Committee on the ETV Project.
- (2) An organization desiring to become a Verification Management Organization shall submit to MOE an application form specified by the Ministry, together with the relevant documentation relating to the verification management arrangements, etc., including any administrative work that will be commissioned to external organizations.
- (3) On receipt of applications indicated under (2), MOE shall select Verification Management Organizations, receiving advice, as required, from the Advisory Committee on the ETV Project.
- (4) MOE shall enter into commission or contract agreements with Verification Management Organizations selected under (3), and the Verification Management Organizations shall conduct management tasks related to verification in accordance with the provisions of Chapters 5 and 6.

2. Considerations for Selection of Verification Management Organizations

In selecting Verification Management Organizations, MOE shall conduct document

reviews, and interviews where necessary, after clarifying the requirements for Verification Management Organizations, with consideration of the following points.

(1) Attitude toward the tasks of Verification Management Organizations

- Does the applicant have a positive attitude toward implementation of the tasks of Verification Management Organizations to spread environmental technologies?

(2) Institutional Arrangements

- Does the applicant have adequate institutional capacity and personnel to fulfill the functions of a Verification Management Organization?
- Are specific task allocation and accountability arrangements clearly defined between organizations?
- Does the applicant have quality control systems in place that comply with JISQ9001 (ISO9001) “Quality Management Systems: Valid Requirements” standards?
- Does the applicant document and utilize the quality control systems that has established?
- Does the applicant conduct regular internal audits?
- Does the applicant maintain records relating to verification management tasks?

(3) Technical Capacity

- Does the applicant have personnel with an adequate track record for the technology fields?
- Does the applicant have adequate personnel with knowledge for the technology fields?

(4) Assurance of Impartiality

- Is there any concern that information and treatment will differ depending on the Verification Organization, in terms of procedures such as selection of Verification Organization, etc.?
- Is there any concern that the procedures for preservation of confidentiality of technical information, etc., obtained through verification management tasks will differ depending on the Verification Organization, the Verification Applicant, etc.?
- Regarding the procedures conducted by Verification Organizations, such as examination of target verification technologies and operation of verification tests, is there any concern that the Verification Management Organization Applicant will exert on Verification Organizations any influence that causes information and treatment to differ depending on the Verification Applicant?

(5) Assurance of Fairness

- Is there any concern about obstacles to fair implementation of verification

management affairs, caused by advice or other conduct favoring any particular Verification Organization, Verification Applicant, etc.?

- Is there any concern that special interests, such as with a particular Verification Organization, Verification Applicant, etc., will affect procedures such as selection of Verification Organizations, commission of verification tests, etc.?
- Is there any concern that special interests, such as with a particular Verification Applicant, etc., will affect the procedures conducted by Verification Organizations, such as examination of target verification technologies and operation of verification tests?
- Does the applicant implement proper handling, record-keeping and rectification measures, with regard to disputes, complaints, etc., from Verification Organizations and Verification Applicants?

(6) Fiscal Basis

- Does the applicant have an adequate fiscal basis and financial independence to fulfill the functions as a Verification Management Organization?
- Does the applicant conduct regular accounting audits?

(7) Adequacy of Cost Estimation

- Does the applicant estimate costs based on the specifications defined by MOE so that it can conduct verification management tasks appropriately?
- Does the applicant estimate commission costs or subcontracting costs based on the specifications defined by MOE so that the Verification Organization can implement verification tasks appropriately?

Chapter 4: Establishment of Protocols

1. A Verification Management Organization shall establish a Protocol for each target technology field, with reference to the “Components of Protocols” (Annex 1), based on the discussions of the WGs, and as required, after discussions with MOE, and obtain the approval of the MOE. Protocols shall be revised, as required, based on results of verification tests and on consideration of scientific and technological progress.

Documentation shall be attached to the Protocols, specifying the categories of fees that applicants must pay to Verification Management Organizations as prescribed under the cost allocation provisions of Chapter 13, Section 2. The establishment of the said categories shall be as detailed as possible, in order to allow Verification Organizations to establish the expected amounts of their own fees in accordance with the provisions of Chapter 5, Section 2.

2. Where no suitable methodologies exist for the verification test of a certain verification item, MOE or a Verification Management Organization may request the Organization for Developing Verification Test Methods to develop techniques for implementation of the verification test. In such a case, the Verification Management Organization shall prepare a Protocol based on the results of consideration by the Organization for Developing Verification Test Methods.

Chapter 5: Selection of Verification Organizations

1. Procedures for the Selection of Verification Organizations

- (1) For each target technology field, a Verification Management Organization shall issue open invitations for Verification Organizations after discussions in the WG for the field.
- (2) An organization desiring to become a Verification Organization shall submit to the Verification Management Organization an application form specified by the Verification Management Organization, together with the relevant documentation relating to the verification arrangements, etc., including any administrative work that will be commissioned to external organizations.
- (3) On receipt of applications indicated under (2), the Verification Management Organization shall select Verification Organizations, while referring to the considerations stated in paragraph 2 and to the discussions in the WGs. The results of selection of Verification Organizations shall be reported to and require the approval of MOE.
- (4) If a Verification Management Organization desires to become a Verification Organizations, MOE shall make a selection described under (3), receiving advice from the Advisory Committee on the ETV Project, as required, and considering whether the said organization is appropriate for combining the function as a Verification Organizations or not.
- (5) A Verification Management Organization shall enter into commission or contract agreements with Verification Organizations selected in (3), and the Verification Organizations shall conduct verifications in accordance with the provisions of chapter 8, section 2.

Note: For some target technology fields, if the organization that has participated in

this project (including the previous pilot project) as a Verification Organization by last FY desires to continue being the Verification Organization of the same target technology field, instead of step (2) above, the organization shall be accepted as such by informing the Verification Management Organization accordingly in writing during the application period presented in (1).

2. Considerations for Selection of Verification Organizations

In selecting Verification Organizations, document reviews, and interviews where necessary, shall be conducted after clarifying the requirements for Verification Organizations, with consideration of the following points.

(1) Institutional Arrangements

- Does the applicant have adequate institutional capacity and personnel to fulfill the functions of a Verification Organization?
- Are specific task allocation and accountability arrangements clearly defined between organizations?
- Does the applicant have quality control systems in place that comply with standards such as JISQ9001 (ISO9001) “Quality Management Systems: Valid Requirements,” and JISQ17025 (ISO/IEC1705) “General Requirements for the Competence of Testing and Calibration Laboratories”?
- Does the applicant document and utilize the quality control systems established?
- Does the applicant conduct regular internal audits?
- Does the applicant maintain records relating to verification tasks?

(2) Technical Capacity

- Does the applicant have an adequate track record for the technology fields?
Note: For a newly-established organization, does the applicant have personnel who possess an adequate track record for the technology fields?
- Does the applicant possess personnel and test facilities with adequate technical capacity to implement verification tests? (This does not preclude implementation by external organizations, based on subcontracts or contract agreements, where necessary, for a portion of the verification test.)

Note: Regarding an organization that does not possess its own test and research organization, it should be clear that the organization is capable of fulfilling its role as a Verification Organization through association with an organization that does possess adequate institutional and technical capacity, in terms of the perspectives stated in (1) and (2) above.

(3) Assurance of Impartiality

- Is there any concern that information and treatment will differ depending on the Verification Applicant, in terms of procedures such as examination of target verification technologies and operation of verification tests?
- Is there any concern about procedures for preservation of confidentiality of technical information, etc., obtained through verification tasks will differ depending on the Verification Applicant?

(4) Assurance of Fairness

- Is there any concern about obstacles to fair implementation of verification tests, caused by advice or other conduct favoring any particular Verification Applicant?
- Is there any concern that special interests, such as with a particular Verification Applicant, will affect procedures for selection of verification target technologies and operation of verification tests?
- Does the applicant implement proper handling, record-keeping and rectification measures, with regard to disputes or complaints, etc., from Verification Applicants?

(5) Fiscal Basis

- Does the applicant have an adequate fiscal basis and financial independence to fulfill the functions as a Verification Organization?
- Does the applicant conduct regular accounting audits?

Chapter 6: Examination of Target Technologies for Verification

1. Procedures for the Examination of Target Technologies

- (1) Any organization that has been selected to be a Verification Organization shall, immediately after being selected, establish the expected amounts of fees relating to the technology verification, with consideration of its own costs, etc., after discussions with a Verification Management Organization, and as required, with MOE, and based on the “fee categories” attached to the Protocol, and shall have the amounts with the Verification Management Organization. It is permissible to establish a range of expected fee amounts, by classifying them based on a number of conditions and factors to be considered, etc. However, these shall be as specific as possible, to enable applicants to estimate the amount of fees they will be required to pay.

The Verification Organization shall issue open invitations for target technologies for each target technology field. A Verification Applicant (a party that desires to receive technology verification) shall submit an application to the Verification Organization.

- (2) The Verification Organization shall issue open invitations for target technologies for each target technology field with indicating its expected fee amounts. A party that

desires to receive technology verification (a developer, vendor, etc.; hereinafter “Verification Applicant”) shall submit an application to a Verification Organization. Verification Organizations shall establish an application period that is as long as possible within a given fiscal year, within its own capacity to accept verification requests, but they may shorten the application period for practical reasons, such as if there are seasonal constraints on the implementation of the verification test.

- (3) The Verification Applicant shall complete the verification application, providing the required information, and submit the application along with the specified documents. The contents of the verification application shall be as stipulated in the Protocol.
- (4) For the technologies for which applications were received, a Verification Organization shall review the feasibility of verification of the said technologies, referring to the considerations in 2, and obtaining advice from the Technology Panel as required, and obtain approval from a Verification Management Organization. In the interest of avoiding duplication in implementation of the budget, in cases where a Verification Management Organization finds that more than one application have been made to Verification Organizations for what appears to be the same technology, it may coordinate discussions between the Verification Organizations so that the verification is conducted by only one of them. Subsequently, the Verification Management Organization shall report the results of the approved review to MOE.
- (5) Verification Organizations shall notify applicants of the results of the reviews of technologies for which applications were received. When applicants for technologies that did not become targets for verification as a result of the reviews are being notified, the reasons for not being selected shall be explained. Verification Organizations, Verification Management Organizations and MOE shall disclose the outline of the target technologies selected.

Note: When a Verification Organizations combining the function as a Verification Management Organizations issue open invitations for and reviews target verification technologies, “Verification Management Organizations” prescribed in the provisions of (1) to (5) shall be replaced with “MOE” as required. In addition, the said organizations, where necessary, with mutual agreement with the participants, may entrust the verification of a technology for which an application was received, to another Verification Organization of the said technology field (“participants” refer to MOE, a possible Verification Organization to be entrusted and the applicant of the said technology).

2. Criteria for the Examination of Target Technologies

In selecting target verification technologies, the feasibility of the technology verification for which applications were received shall be reviewed, while considering the following points. The Verification Management Organization may, based on discussions of WGs, as required, apply additional considerations for selection relating to environmental conservation effects or other factors for each technology field.

(1) Factors related to the Application

a) Does the technology described by the application fall under a target technology field?

b) Is the application complete?

c) Is the technology in a commercial phase?

(2) Feasibility of Verification

a) Is verification feasible from the perspective of budgets, institutional arrangements for implementation, etc.?

b) Can an appropriate Verification Test Plan be prepared?

c) Is the Verification Applicant capable of covering fees associated with the verification test?

(3) Environmental Conservation Effects, etc.

a) Can the principles and mechanism of the technology be explained?

b) Does the technology raise any secondary environmental problems or concerns?

c) Are significant environmental conservation effects expected?

Chapter 7: Preparation of Verification Test Plans

1. A Verification Organization shall prepare a Verification Test Plan in order to specify detailed test criteria, etc., based on a Protocol, through discussion with Verification Applicants, and after consideration by the Technology Panel, and submit the Verification Test Plan to a Verification Management Organization. The Verification Management Organization, where necessary, may express an opinion to the Verification Organization regarding the Verification Test Plan.

2. A Verification Applicant shall submit to the Verification Organization a written statement indicating acceptance of the contents of the Verification Test Plan.

3. Regarding paragraph 1, for a given technology, a Verification Organization may, after discussion with a Verification Management Organization and a verification applicant, and admittance of the applicant, as necessary, be permitted to adopt test methods that differ from a Protocol, in cases where it is appropriate to modify part of the test methods

specified in the Protocol, where there is a concern that the environmental conservation effects, etc., of the said technology may not be properly verified if done in accordance with the Protocol that apply to the said technology, such as in cases where secondary environmental impacts may arise that were not anticipated in the said Protocol due to the characteristics of the said technology.

Chapter 8: Implementation of Verification Tests

1. A Verification Organization shall conduct a verification test for each target technology, based on a Protocol and a Verification Test Plan. Before implementation of the test, the Verification Organization, after coordinating with a Verification Management Organization, shall determine the amount and required payment date of fees for each technology field, related to the said verification test, and notify the applicant. Upon receiving the said notice, the applicant shall pay the fees to the Verification Management Organization by the required payment date. In principle, the fees must be paid before implementation of the test.

2. A Verification Organization may, where necessary, instruct an external organization to implement a portion of the verification test, based on a subcontracting agreement, etc. When this is done, the Verification Organization shall provide instructions and supervisions to ensure that the said external organization conducts the verification test in accordance with a Protocol and a Verification Test Plan.

3. Instead of conducting the whole or a part of the verification test required for verification of a technology, a Verification Organization may have a Verification Applicant submit data it possesses, and review it on condition that the following requirements are all met.

- (1) The Protocol specifies that the verification test may be omitted.
- (2) The Verification Test Plan specifies the scope of omission of the verification test.
- (3) The organization that acquired the said data and its quality criteria are specified in the Protocol and the criteria are met.

4. In the event that a verification test could not be completed for some reason or any changes in a Verification Test Plan during a verification test affected the amount of fees an applicant should pay, the Verification Organization shall explain the circumstances to MOE and the Verification Management Organization, and after obtaining their approval, negotiating with the applicant, calculate the costs required to that point for

the test, and determine the amount of fees that should be paid to the applicant.

5. A Verification Management Organization shall pay the equivalent amount of fee collected from an applicant according to paragraphs 1 to 4 above, to a Verification Organization as a part of the costs for the project implemented based on a subcontracting or contacting agreement presented in paragraph 1 (5), Chapter 5, Section 2.

Chapter 9: Preparation of Verification Test Result Reports

1. After discussions in the Technology Panel, a Verification Organization shall compile a verification test result report, and submit it to a Verification Management Organization. The Verification Management Organization shall submit a report to MOE and obtain its approval of the report. On the approval of the report, as required, the Verification Management Organization or MOE may express an opinion, based on the considerations by WGs, to the Verification Organization. When preparing the verification test result report, it shall be in accordance with the contents and document formats for the verification test result report as prescribed in the Protocol.

2. The approved verification test result report is returned to the Verification Organization via the Verification Management Organization. The Verification Organization shall send to the Verification Applicant the verification test result report for which approval has been obtained. MOE, after approving the verification test result report, shall without delay issue to the applicant a Logo and a verification number as prescribed in chapter 11.

3. Regardless of the results of verification tests, all verification test result reports shall be released to the public on a website according to the provisions of the following chapter.

Chapter 10: Preparation of Website

1. With the aim of providing information to users via Internet, MOE shall organize information on environmental technologies for which verification has been completed, and create a website to provide it. MOE shall provide the information effectively so that users can utilize the information organized.

2. MOE shall provide, via the website, information including Protocols, Verification Test

Plans and verification test result reports. As the need arises, MOE shall also provide relevant information such as open invitations for Verification Organizations and verification technologies, and discussions in the Advisory Committee on the ETV Project.

3. MOE shall prepare English versions of the outlines of Protocols and verification test result reports from the contents of the website, and make the information available outside Japan.

Chapter 11: Use of Logo

1. Objective

To publicize this project to the general public, promote the spread of environmental technologies, and stimulate economic activities through the development of environment conservation and local environmental industries, the logo indicated in Annex 2 is specified as the logo of the ETV Project of MOE (hereinafter “Logo”).

2. Type of Logo

- (1) As shown in Annex 2, there are two types of Logo: the logo on which information common to all technologies is written (hereinafter “Common Logo”) and the one on which information specific to each target technology is written (hereinafter “Individual Logo”).
- (2) Information specific to each target technology written on the Individual Logo and its position on the logo shall be unified for each technology field, and they shall be determined in each WG.

3. Use of Logo

- (1) The Logo that is permitted to be used shall be the Common Logo and the Individual Logo.
- (2) The Logo shall be used positively for the following purposes on condition that the provisions of paragraph 4 are observed. Neither notification to nor approval of MOE, Verification Management Organizations or Verification Organizations (hereinafter “Organizations Related to the ETV Project”) is specifically required for usage of the Logo.
 - a) The Logo shall be used to introduce this project to the general public through newspapers, magazines, academic papers, websites, etc.
 - b) It shall be used for introduction, advertisement, etc., of target technologies whose

verification test result reports have been approved by MOE.

- c) It shall be used by an organization that has been selected as a Verification Management Organization or a Verification Organization in order to indicate the fact of being selected as such during the period specified.
 - d) If an activity for environmental conservation is being performed using a technology verified, the Logo shall be used during the period in order to indicate that fact.
- (3) If an organization desires to use the Logo for the objective of paragraph 1 by any reason other than those described in paragraph (2) above, it shall consult with MOE.

4. Method of Display

(1) Method of Display of Logo

- a) The color scheme of the Logo shall be as indicated in Annex 2, and no other color schemes may be used.
- b) The Logo shall be displayed in a way that makes it easily distinguishable as an independent mark.
- c) The Logo shall not be cut, divided into parts, or modified in any way without permission of MOE. However, the size of the Logo as a whole may be varied.
- d) Where the Logo is used on a website, a link shall be provided from it to the website of the ETV Project (<http://www.env.go.jp/policy/etv/>).

(2) General Points to be Observed regarding the Logo

- a) The Logo shall not be used in any way whatsoever that implies a guarantee, certification, or approval by the Organization Related to the ETV Project with regard to the business entity, product, technology, service, etc., associated with the target technology that has been verified.
- b) The Logo shall not be used as a part of the name of any product, service, technology, etc.

Note: When a Verification Applicant uses the Logo to introduce or advertise the technology, the following points must also be observed.

- c) The Logo shall be located adjacent to the name, etc., of the verified target technology, so as to facilitate clear identification of the verified target technology. If the verified target technology is used only for some of the plural models in a product series, the scope to which the Logo applies shall be indicated clearly. If any difference in performance exist, or may exist, between the product used in the verification test and the commercial product used by general users, main elements that cause the difference shall be indicated clearly. If any doubts arise as to the scope of the Logo, the Verification Applicant shall consult with MOE.

d) If the Logo is used for introduction of the technology or other use, it shall not be used independently, and the following statement shall always be displayed adjacent to the Logo: “The name and the Logo of the ETV Project do not imply any guarantee, certification, or approval by MOE or related organizations with regard to the technology or its performance.” The statement shall be displayed in a size large enough to be read without difficulty.

5. Improvement Orders, etc.

MOE may issue an order that rectify or halt the use of the Logo, to a party that uses the Logo in a way that contravenes these Implementation Guidelines.

6. Transitional Measures

The Logo that was printed on products, catalogues, etc., before these Implementation Guidelines are enforced may be used as it is. The Logo specified in these guidelines may also be used for the technologies that have been verified during the period of the Environmental Technology Verification Pilot Project. In such a case, the verification number issued in the project shall be used as it is.

Chapter 12: Treatment of Intellectual Property

1. Verification Management Organizations and Verification Organizations shall not use information relating to the environmental technologies of a Verification Applicant that has been obtained through verification tests, for any purpose other than technology verification. When providing confidential information associated with the said technology to a Verification Organization, a Verification Applicant may demand that the Verification Organization conclude a declaration of obligation of confidentiality in a format specified separately by the Verification Organization.

2. If rights (hereinafter “a patent, etc.”) stipulated in Paragraph 1, Article 19 of the Industrial Technology Enhancement Act are newly acquired based on the results of implementation of a verification test, MOE may not assume that patent, etc., from the Verification Management Organizations or the Verification Organization. Regarding the handling of the said patent, etc., the Verification Management Organizations or the Verification Organization shall consult with MOE as required, and strive to use the said patent, etc., giving due consideration to its effective use.

3. Any copyrighted works that were prepared in association by the implementation of

this project, such as Protocols and verification test result reports, shall be the copyright of MOE.

Chapter 13: Cost Allocation

1. Under this verification project, in principle, the Verification Applicant shall bear the costs required for delivery and installation of the target technology at the test facility, operation of the target technology in cases where the verification test is conducted in-situ, and removal and return of the target technology after completion of the test; through the payment of fees, the Verification Applicant shall bear the costs associated with implementation of the verification test (costs arising at a Verification Organization, including costs of measurement and analysis, etc.; personnel costs; costs of supplies; and travel costs); MOE shall bear other costs (costs of the Advisory Committee on the ETV Project, WGs, and Technology Panel). A Verification Management Organization shall stipulate details on this matter in a Protocol.

2. “The costs associated with implementation of the verification test” above may, as required, include general administration costs.

Chapter 14: Disclaimers

1. With the exception of intentional damage or gross negligence, the Organizations Related to the ETV Project such as MOE, Verification Management Organizations, and Verification Organizations shall not bear any responsibility whatsoever, in the event that any losses occur in connection with implementation of this verification project, such as breakdowns or damage to the equipment of the Verification Applicant.

2. With the exception of intentional damage or gross negligence by a third party, the Verification Applicant shall bear responsibility in the event that any damages/injury occur to a third party, due to equipment defects, and the Organizations Related to the ETV Project such as MOE, Verification Management Organizations, and Verification Organizations shall not bear any responsibility whatsoever.

3. In the event that any dispute arises between a Verification Applicant and a third party, in connection with public release of a verification test result report, the Organizations Related to the ETV Project such as MOE, Verification Management Organizations, and Verification Organizations shall not bear any responsibility whatsoever.

4. In the event that any changes are made to specifications that affect the basic performance of a target technology, after the change, the data in a verification test result report shall not be applicable to the said technology.

5. In the event that any problem is made to uses of the Logo, the Organizations Related to the ETV Project such as MOE, Verification Management Organizations, and Verification Organizations shall not bear any responsibility whatsoever.

Chapter 15: Evaluation of Status and Results of Project Implementation, and Reflecting Findings in the Project in Subsequent-Years

1. In order to improve the methodologies and institutional arrangements of environmental technology verification, MOE shall conduct assessments in the Advisory Committee on the ETV Project regarding the status and results of implementation of the ETV Project, with the involvement of representatives of each participating party, and reflect the findings in the project during subsequent fiscal years. In addition, in order to grasp the results of verification, MOE shall regularly seek to determine the extent of market expansion due to verification and the effectiveness of the verification results, targeting corporations that have undergone verification of a technology.

2. Verification Management Organizations and Verification Organizations may implement changes to a portion of these Implementation Guidelines after obtaining the approval of MOE, in order to ensure flexibility of implementation.

(Annex 1) Components of Protocols

Component	Description in text
Introduction	Description of technology, types of verification tests, and outline, of the technology that is the subject of the Protocol
Target technology	Description of technology that is the subject of the Protocol (applications, principles of operation, capacity, scale, etc.)
Basic approach to verification tests	Approaches regarding all items that must be grasped and considered, operation of the equipment to be verified, setting of loads, etc.
Definition of terms	References to definition of terms under JIS, etc.
Institutional arrangements for implementation of verification tests	Task allocation and scope of responsibilities (including cost allocation) of major entities involved in the verification tests
Ministry of the Environment	Tasks and responsibilities of the Ministry of the Environment
Advisory Committee on the ETV Project	Tasks and responsibilities of the Advisory Committee on the ETV Project
Verification Organizations	Tasks and responsibilities of Verification Organizations
Implementation organizations of verification tests	Tasks and responsibilities of implementation organizations of verification tests
Technology Panel	Tasks and responsibilities of Technology Panel
Developers, etc., of environmental technologies	Tasks and responsibilities of developers, vendors, etc., of environmental technologies
Owners of verification test implementation sites*	Tasks and responsibilities of Owners of verification test implementation sites
Open invitations for technologies to be verified	Information to be described in the verification application when open invitations are issued
Preparations of verification tests*	Tasks that must be conducted before implementation of verification tests
Selection of verification test implementation sites*	Conditions of implementation sites (consideration of environmental loads, test period, operational requirements for equipment, etc.)
Installation of equipment to be verified*	Instructions for installation of equipment, and all factors that must be considered for installation
Trial operation of equipment to be verified	Instructions for trial operation before actual verification tests
Preparations of verification tests*	Instructions for installation of temporary items needed for verification tests
Operation of equipment to be verified*	Instructions for operations, maintenance, etc., of equipment during verification test period
Operation*	Instructions for operations and recording method of operating conditions
Maintenance*	Instructions for maintenance

	Recording of conditions, including energy consumption, waste generation, and maintenance costs
Parameters concerning installation environment*	Weather conditions of installation site, including air temperature, humidity, and precipitation
Verification test methods	Verification test items and test methods
Test conditions	Environmental factors for equipment use during verification tests [e.g., operating rate, specimens for tests (concentrations and amounts of environmental loads, etc.), air temperature], test period, etc.
Performance test items	Measurement methods, timing, frequency, accuracy control, etc., for pollution concentrations and related parameters, etc.
Surrounding environmental impact parameters, etc.*	Measurement methods, timing, frequency, accuracy control, etc., for parameters necessary to determine impacts on surrounding environment
Verification Test Plan	Items to be determined in Verification Test Plan
Summary	
Verification test results	Processing methods, calculation methods, summary methods, etc., for measurement values of performance test items, surrounding environment impact parameters, etc.
Preparation of reports	Items to be covered in the report, methods of summarization
Appendices	List of relevant JIS numbers, etc. Documentation to establish fee categories (only for categories covered under Section 2 of Project Implementation Guidelines)

* Signifies components required for in-situ implementation of verification tests

(Annex 2) ETV Project Logo

(1) Common Logo



(2) Design of the Individual Logo: Descriptions on the Logo shall be determined in the WG of each field.

Determine in the WG of each field whether the following information is indicated or not.

- “Third-party verification” indication
- Verification number
- Verification test results, etc.
- Special notes such as optional verification