



EU Environmental Technology Verification pre-programme

The EU ETV pre-programme



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ETV Objectives

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ETV to generate independent and credible information on new environmental technologies, by verifying that performance claims are complete, fair and based on reliable test results.

- help technology developers and vendors market new technologies
- support technology purchasers and users make informed decisions
- facilitate implementation of environmental policies and regulations





Example of performance claim

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Is the designation T precise enough to refer to only one technology?

Is the intended application clear enough to identify precise user needs?

Technology T, whose intended application is A, operated under conditions O, performs in such a way that

parameter $a < \text{or} = a_0$,
parameter $b > b_0$ and regulated
parameter $c < \text{or} = c_0$ in compliance with
Standard S.

Are operating conditions clearly known and unambiguous?

Are the regulatory framework and applicable standards known, specific to particular markets?

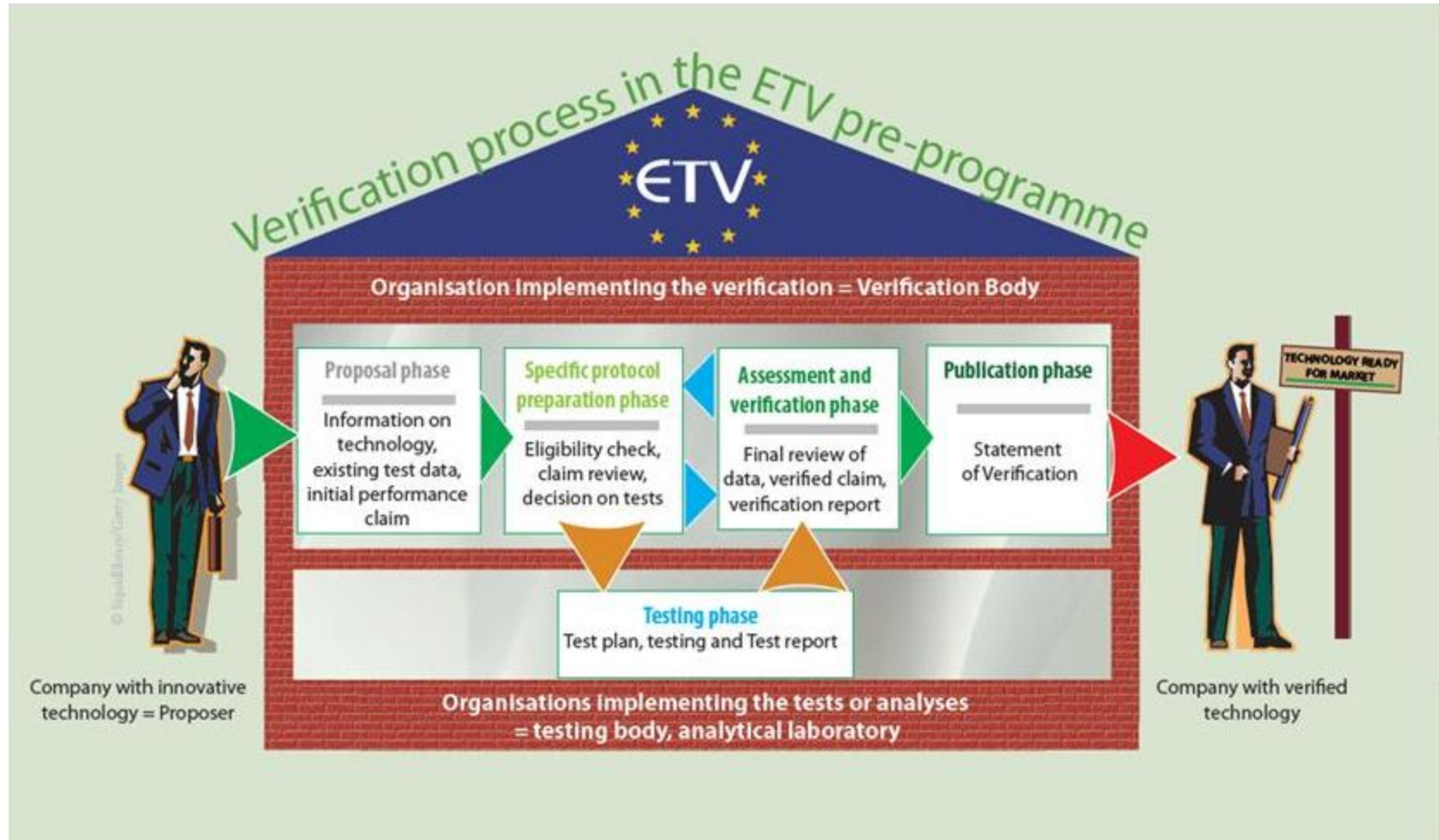
Are parameters quantified, verifiable by testing, representative of user needs and key environmental factors, enabling comparisons?





Outline ETV process

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ETV process steps (I)

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- Proposal phase

Eligibility and initial review of technology and claim

- Specific verification protocol preparation

Precise definition of performance parameters

Requirements on test design and data quality

- Assessment of existing data





ETV process steps (II)

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- Testing (if additional tests are needed)
- Assessment of all data and verification

Assessment of data and review of test procedure

- Reporting and publication

Verification report and Statement of Verification

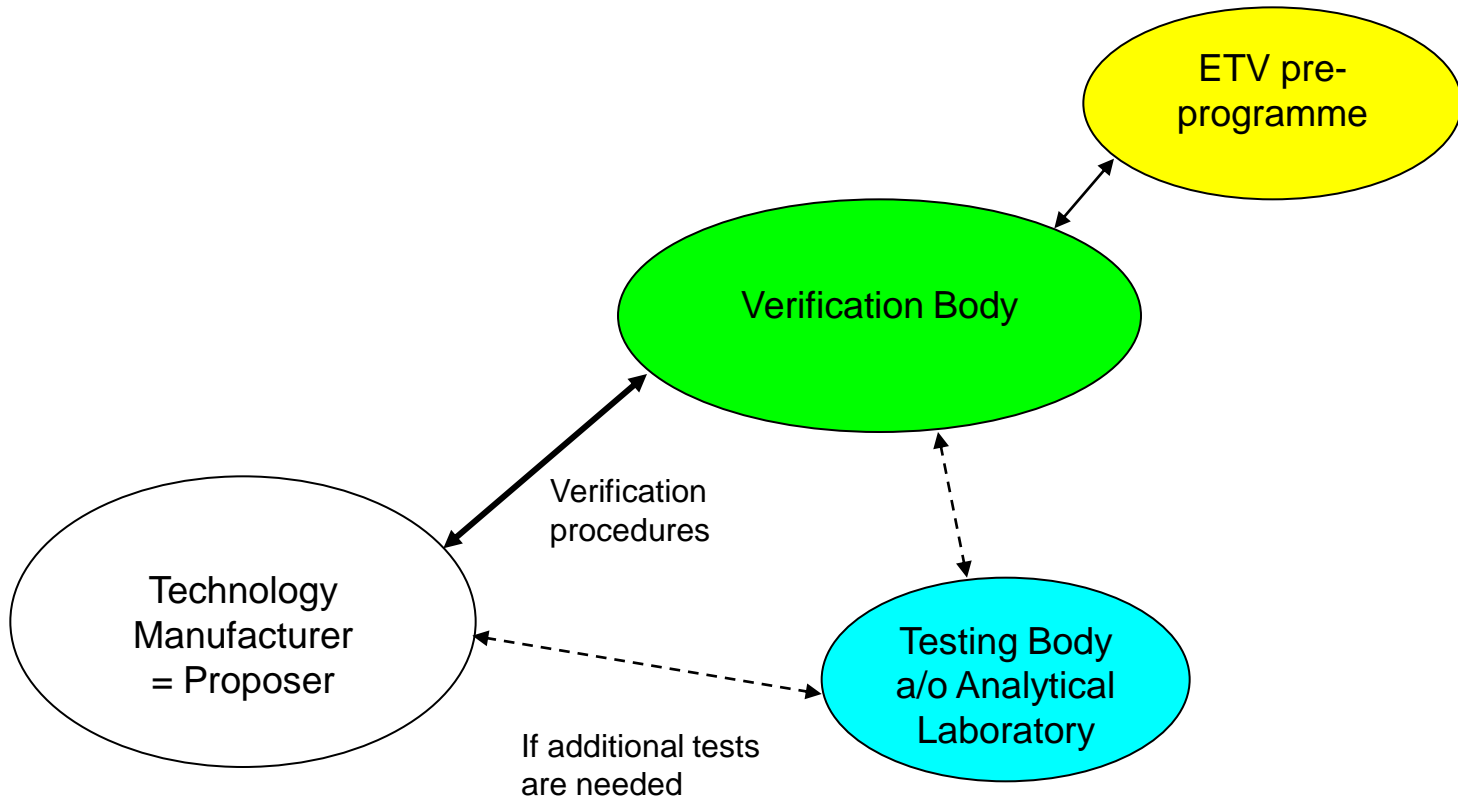
Publication on ETV website





Organisation of ETV process

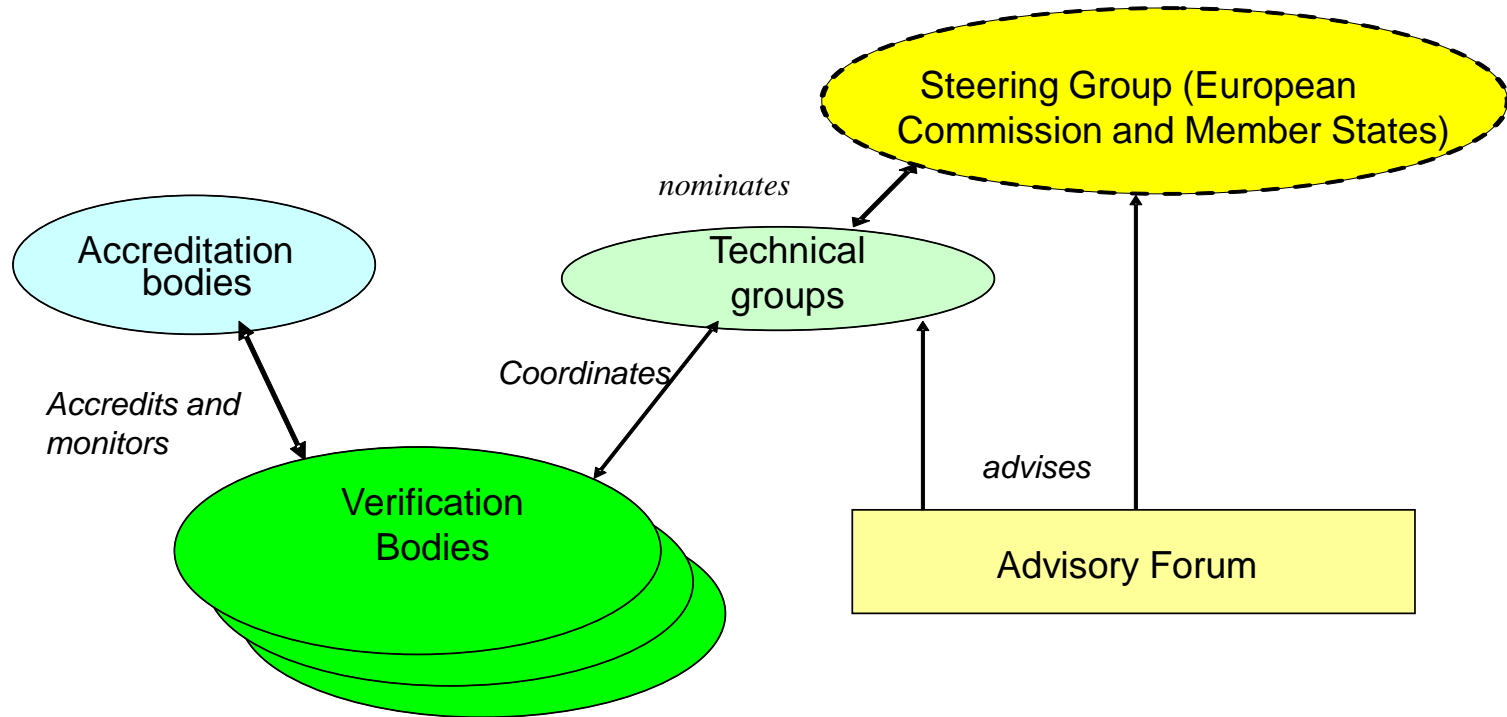
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Organisation of ETV pre-programme

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Verification Bodies

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Accredited for ETV by national accreditation bodies

Compliance with ISO 17020 and ETV General Verification Protocol (GVP)

Responsible for the verification of individual technologies in a specific technology field

Assistance to SMEs during the ETV process

Coordinated by thematic technical groups

From 2011 to 2013, Partnership Agreements with the Commission (1st call in 2011)





Testing Bodies and Analytical Laboratories

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Test bodies are responsible for planning and implementing tests where needed for ETV

No specific accreditation but requirements on qualification – any test body can participate

Analytical Laboratories: accreditation under ISO 17025 required

Existing data: strict requirements on the quality of test data

From producer or test bodies (before submission to ETV)





Technical groups and advisory Forum

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Technical groups

One per technology area

Representatives of VBs and other experts, chaired by Commission (JRC-Petten)

Guidance to VBs: key environmental factors (LC perspective), specific requirements, users needs

May give an opinion in case of conflict VB-proposer

Advisory Forum

Advises on ETV processes, scope, results

Includes technology purchasers and users





Technology scope

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ETV open to all technologies ready for the market, presenting a potential for innovation and environmental benefit, in three initial areas:

- 1) **Water treatment and monitoring** (monitoring equipments, treatment of drinking water, waste water treatment...)
- 2) **Energy technologies** (renewables, waste to energy, CHP...)
- 3) **Materials, waste and resources** (sorting of solid waste, materials recycling, products from biomass...)

Possible extension of the technology scope to one or more areas

- Soil and groundwater monitoring and remediation
- Cleaner production and processes
- Environmental technologies in agriculture
- Air pollution monitoring and abatement





Participating countries

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Member States participating in the ETV pre-programme:

Belgium, Czech Republic, Denmark, Finland, France,
Poland, United Kingdom

Germany, Sweden, Slovakia observers in the ETV Steering Group

Proposers, Verification Bodies, Testing Laboratories, Analytical
Laboratories may come from any country

In preparation: mutual recognition of ETV programmes globally

Joint and co-verifications already possible with Canadian, Philippine and
US programmes





Links with EU policies and instruments

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- Developed under ETAP, announced in SCP-SIP, part of forthcoming **Eco-innovation Action Plan**
- Complementarity with IPPC Directive (future IED):
 - BREFs source of performance parameters for ETV
 - ETV results as source of information for BREFs (particularly emerging technologies)
- Relations with eco-labels, EMAS, EuP, certification:
 - ETV for business-to-business, not a label for consumers
 - ETV for specific technologies, not for environmental management
 - ETV to go beyond minimum (eco-design) requirements
 - ETV for innovative technologies, not for conformity with standards





Life-Cycle aspects

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- Key environmental aspects, in a LC perspective, to be taken into account when defining performance parameters
- Technical groups to give guidance on key environmental aspects per technology group
- ETV not about the final impact on environment (\neq EPD) but about performance parameters
- Need to ensure that Statements of Verification are not misleading: parameters having an important influence on environmental impacts should be in; possibility to include information on non-verifiable aspects (e.g. maintenance)





Costing and funding issues

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Wide-ranging estimates

Highly variable depending on technology area, complexity, availability and quality of test data...

As an example, the average cost for technologies verified by DANETV in 2009-2010 was €53,000, of which €28,000 was attributable to the verification procedures *per se*.

EU support to pre-programme

Overall co-ordination, studies, communication supported by EU and MS budget

Support to fixed costs of VBs partially covered by EU budget from 2011 to 2013

Direct support to SMEs

To be sought from EU programmes (CIP, LIFE+) or national funding schemes (grants, loans)





Call for proposals under CIP-EIP

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Open to accredited Verification Bodies

Objective: to facilitate the launch of ETV pre-programme by reducing the 'fixed costs' for VBs and therefore (indirectly) the final cost for proposers

Activities expected from VBs in proposals

- Active participation in the setting-up of the ETV pre-programme
- Setting-up and maintenance of ETV Quality Management System
- Facilitating the access to Small and Medium-sized Enterprises
- Reporting on the implementation of ETV, on results and indicators

Budget and planning

€1 million budgeted in 2011, €1 million programmed in 2012 and 2013

Provisional planning: call in September 2011, submission of proposals in November, Grants agreements in February-March 2012





European Commission
DG Environment

Thank you !

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<http://ec.europa.eu/environment/etv/index.htm>