LIFE PRO ETV

In collaboration with

eit Manufacturing

Co-funded by the European Union

Environmental Technology Verification (ETV) as provider of information on green innovations with proven performance

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This project has received funding from the European Union's LIFE Programme under Project Number LIFE19 GIE/PL/000784 and is co-financed by National Fund for Environmental Protection and Water Management, Poland and Ministry of Agriculture, Hungary

National Fund for Environmental Protection and Water Management

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What is ETV?

ETV is a voluntary environmental scheme implemented with an objective to promote environmental technologies by providing technology developers, manufacturers and investors access to third-party validation of the performance of innovative environmental technologies.

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ETV objectives

ETV helps:

- manufacturers prove the reliability of performance claims of their technologies and in this way help them market the technologies,
- technology purchasers identify performing environmental technologies fitting best their needs,
- facilitate the implementation of the EU and MS policies and regulations for environment and innovation.

- The expected impact on technology markets is to **accelerate the acceptance and diffusion** of innovative environmental technologies.
- ETV has been launched as a voluntary scheme by European Commission and is operated as an EU ETV Programme
- ETV addresses innovations with an environmental added value ready for market

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ETV as a policy suport tool

Transformative innovation policies tool

New environmetal technologies acceptance and diffusion

Sustainable transition policies tool

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How ETV supports uptake and diffusion of green innovations?

ETV proves in an **impartial and credible way** that the **claims about an environmental technology performance** made by providers **are true and based on sound scientific data**

ISO standardised

Quality and impartiality assured

Fit for early market stage innovations

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How ETV supports uptake and diffusion of green innovations?

ETV proves in an **impartial and credible way** that the **claims about an environmental technology performance** made by providers **are true and based on sound scientific data**

ISO standardised

- Robust and transparent verification procedures based on ISO 14034 standard*: Environmental Management: Environmental Technology Verification*
- EU and global recognition

Quality and impartiality assured

- Performance test data must be generated compliant to ISO 17025 requirements
- Bodies performing ETV are accredited for compliance to ISO 17020 for type A inspection bodies

Fit for early market stage innovations

- Provides flexibility in the choice of parameters to be verified
- Enables proving performance claims of innovations which performance falls outside regulations or standards or which do not fit into existing legislative, labelling or standardised performance frameworks

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Which technologies does ETV address?

Environmental technologies are all technologies (products, processes, services) which:

- **demonstrate environmental added value** i.e. more beneficial or less adverse environmental impact with respect to the technologies with the same function applied currently in a similar situation
  e.g. water treatment technologies, biobased products
- **measure parameters that indicate environmental impacts**
  e.g. monitoring technologies
- **ready for market (TRL min.7) or already on the market**

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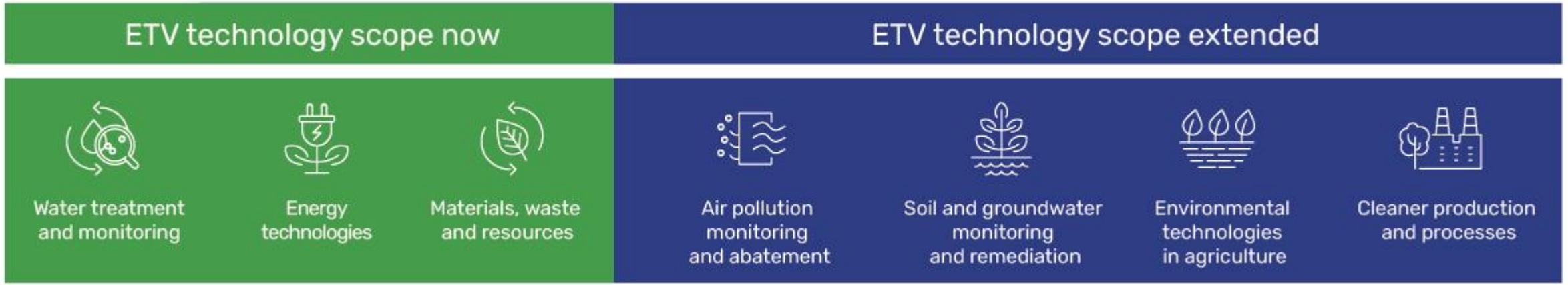
Which technology areas does ETV cover?

EU ETV Programme 2022 onwards



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How ETV adresses innovation?

Innovative Environmental Technologies represent a novelty in terms of:

- design
- raw materials and energy involved
- production process
- use/operation
- recyclability or final disposal

Compared to products, processes and services technologies with the same function applied currently in a similar situation

Results in an environmental added value and is reflected in performance

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How does ETV work?

VERIFICATION OF PERFORMANCE

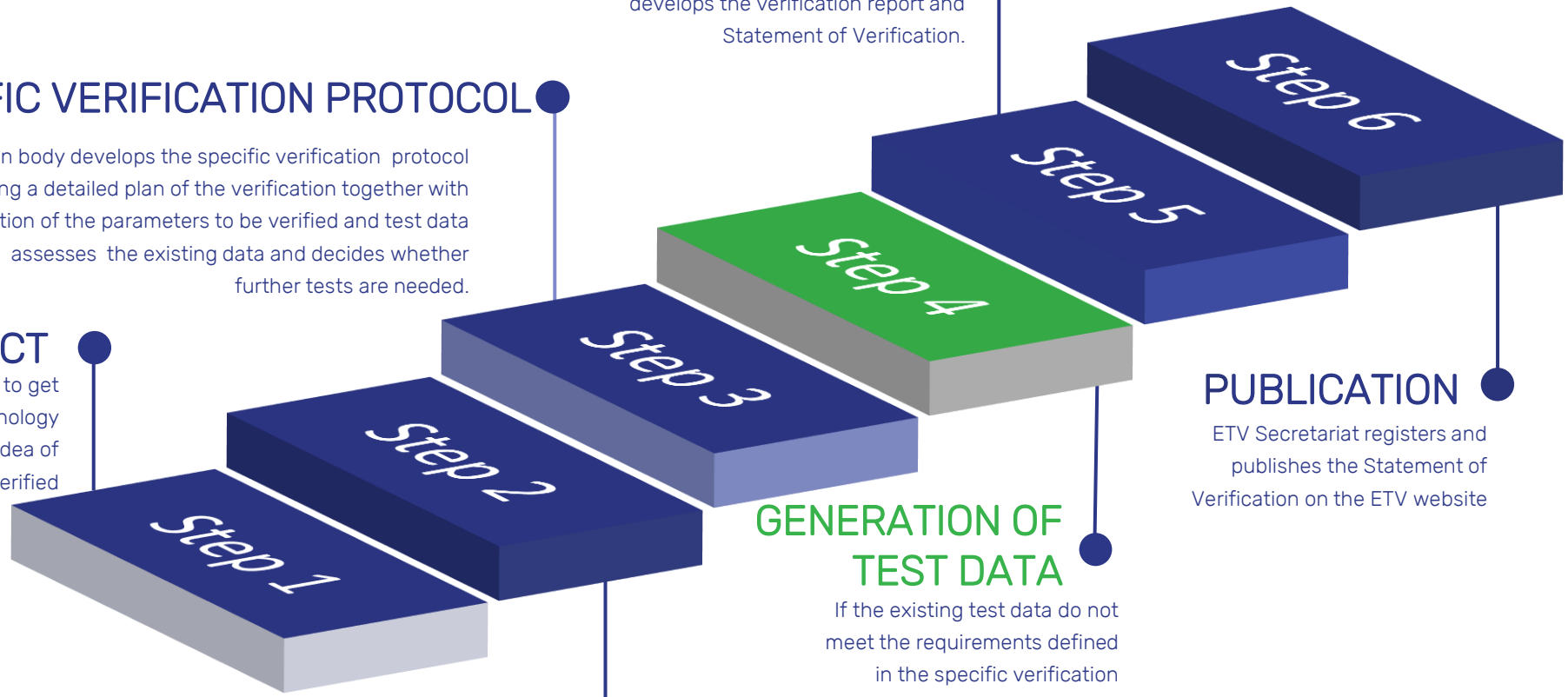
Verification body reviews the final set of data, concludes on the verified performance and develops the verification report and Statement of Verification.

SPECIFIC VERIFICATION PROTOCOL

Verification body develops the specific verification protocol including a detailed plan of the verification together with specification of the parameters to be verified and test data requirements, assesses the existing data and decides whether further tests are needed.

CONTACT

Proposer contacts a verification body to get information on the process, check if the technology is a good candidate for ETV together with an idea of the performance claim to be verified



PUBLICATION

ETV Secretariat registers and publishes the Statement of Verification on the ETV website

GENERATION OF TEST DATA

If the existing test data do not meet the requirements defined in the specific verification protocol, the proposer is requested to perform additional testing typically with an appropriate test body

APPLICATION

Proposer submits an application file detailing information about the technology together with the performance claim and existing test data. Verification body decides on the eligibility of the technology for ETV and revises the performance claim to be verified.

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Who can apply?

- Technology provider/ owner
- Technology manufacturer
- Legally authorised representative e.g. investor

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Who verifies

7 accredited verification bodies offer ETV service

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ETV costs and process duration

The duration should be estimated at a minimum **6 months** depending on the character of the technology, complexity and scope of the claim and whether additional testing in needed or not.

The verification cost involves:

- Fee paid to the verification body
- Fee paid for testing
- Company's internal costs e.g staff costs, costs related to providing units for testing, providing a test site etc.

- By average the costs could be estimted **ca 20.000-40.000€** , however they depend heavily on the technology, claim to ve verified and associated testing costs

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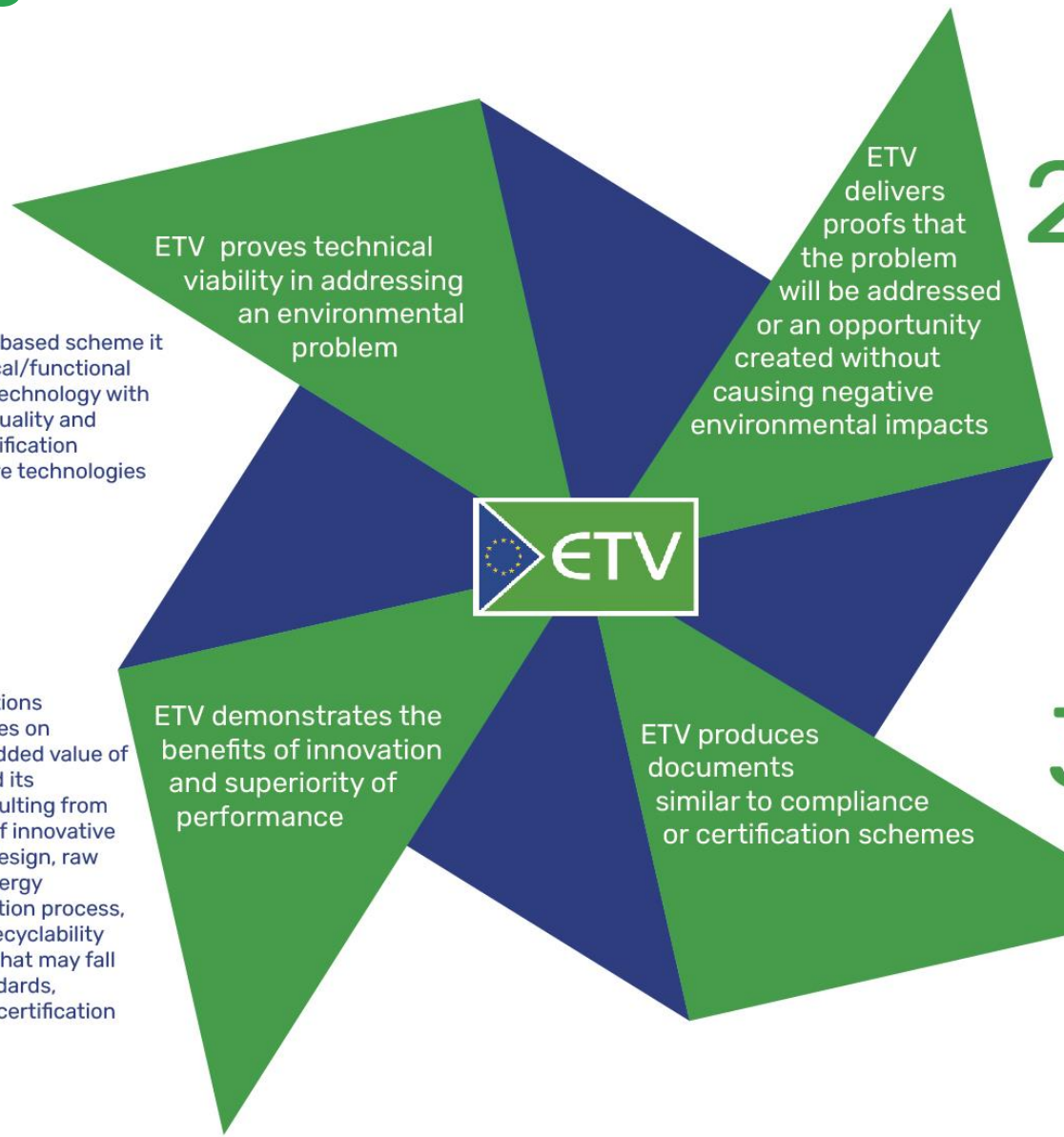
ETV as data provider on performance of new technologies



1. As a performance-based scheme it focuses on technical/functional performance of a technology with the same level of quality and impartiality as certification schemes for mature technologies

2. As an environmental scheme it addresses the environmental performance of a technology using life cycle perspective

3. Such documents are demanded, known and understood by technology buyers, investors, decision makers and regulators, thus being compatible with their needs and expectations

4. As green innovations scheme, it focuses on environmental added value of a technology and its performance resulting from the application of innovative solutions to its design, raw materials and energy involved, production process, use/operation, recyclability or final disposal that may fall outside the standards, compliance and certification schemes

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Thank you for your attention

For more details contact

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