

Validation of ISO 14034 ETV as a scheme tailored to satisfy information needs of a green innovation offer

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6 TH ETV STAKEHOLDERS FORUM :
New contexts, partnerships and pathways for market acceptance and recognition of Environmental Technology
Verification as a catalyst of green transformation
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Key information needs for market adoption of new environmental technologies

Definition of an environmental technology

Clear and unambiguous criteria determining if an innovation is green or not.

Proving innovation and the resulting benefits

Market readiness

Technical feasibility : proving the declared feasibility of a technology to achieve an environmental goal or solve an environmental problem.



Compliance to standards and regulatory requirements concerning application and performance of a technology.

Scalability

Adequacy to/compatibility with user's operational environment

Costs vs benefits

Credibility of information and about the technology and its performance and transparency of the process that generated this information

Market entrance success

When bringing a new environmental technology to market, building confidence among buyers, users, investors, and regulators is essential to secure market clearance.

This requires at least 4 credible proofs:

- proof of technology
- proof of its green performance
- proof of regulatory compliance
- proof of pay-offs



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Market clearance poofs

- Confirmed technical specification
- Confirmed maturity
- Credible test data/reports
- References from previous applications

Proof of technology

Proof of green performance

- Certification,
- Type approval schemes,
- Dedicated compliance schemes referring to technology application

Proof of regulatory compliance

Proof of pay-offs

- Demonstration of reduced impacts on environment
- LCA, carbon footprint, carbon neutrality water footprint, EPD...
- Alignment with Green Taxonomy criteria
- Numbers on how the investment (CAPEX) will convert into savings and in what time frames



ISO 14034 ETV provides a process to deliver objective and credible information to substantiate these proofs



**ENVIRONMENTAL
TECHNOLOGY
VERIFICATION**

ISO 14034 Environmental Management:
Environmental Technology Verification

Prove your green technology performs !



Co-funded by
the European Union



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Why ISO 14034 ETV?



Defines the term **environmental technology**



Determines the **environmental added value** as indicator if a technology results in a reduced environmental impact compared to alternatives to demonstrate green performance



Allows to **demonstrate in full the performance characteristics** of new, even disruptive technologies that do not fit into existing certification schemes or regulatory frameworks



Provides a **transparent verification process** allowing to get proofs on the declared performance of a technology in achieving its purpose and delivering environmental benefits thanks to innovation, considering technology market readiness level its scalability and conditions for application



Provides a **framework ensuring quality, impartiality and credibility** of the information about the technology and its verified performance

ISO 14034 ETV process

Pre-verification

Specification of parameters to be verified order to backup the claimed performance together with the requirements of test data to verify them
Verification planning



Reporting

Summary of the verification activities
Reporting on the verified performance in the Verification Report and ETV Statement



Post-verification

Publication of at least the ETV in a publicly available source
Ensuring validity of the statements



Verification

Analysis and assessment of existing technology performance test data
Conclusion on the actually achieved performance under stated conditions of application
Technology testing if relevant data is not available



Application

Proposal of a performance claim
Compliance to the definitionn of an environmental technology (environmental added value assessment)
Assessment of technology market readiness



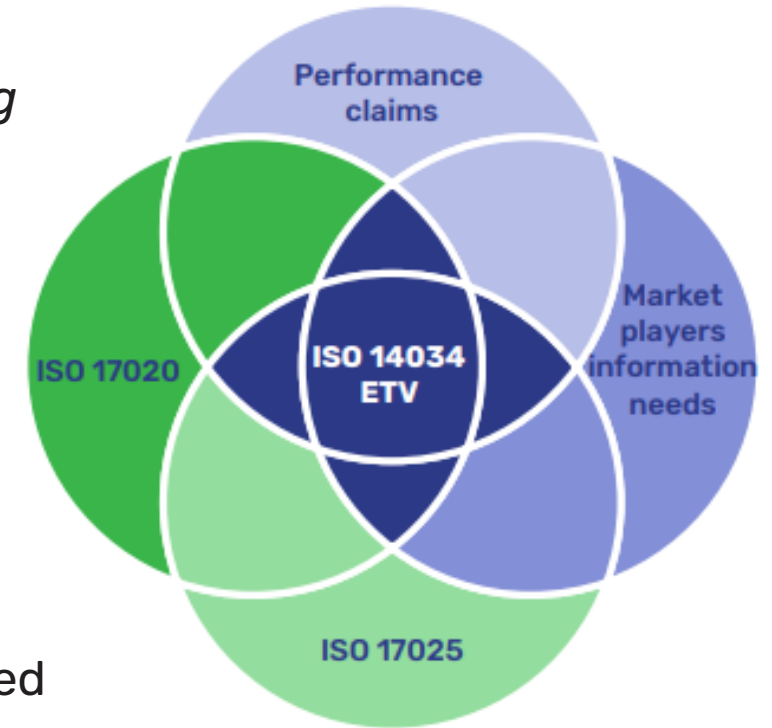
Credibility, relevance and adequacy of ETV



IMPARTIALITY: Standard ISO/IEC 17020: *Conformity assessment - Requirements for the operation of various types of bodies performing inspection* ensures that verifiers performing ETV are competent and impartial when verifying a technology .

QUALITY: Standard ISO/IEC 17025: *General requirements for the competence of testing and calibration laboratories* defines the conditions for generation of test data used to verify the performance claim .

FIT FOR INNOVATION: Standard ISO 14034 ETV provides a robust verification process open to verify performance parameters proposed by applicants to demonstrate the performance features of their technology aligned to information needs of the market



ETV: Market clearance proofs

- Verified performance for technical specification based on quality assured test data
- Confirmed market readiness and scalability
- Information to demonstrate compatibility with user needs
- Third-party confirmed data to demonstrate regulatory compliance of the technology and its application at target market

Proof of technology

Proof of green performance

Proof of regulatory compliance

Proof of pay-offs

- Demonstration of reduced impacts on environment resulting directly from technology purpose compared to alternatives
- Performance data allowing to demonstrate savings to be achieved by the users (OPEX)



Thank you

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