ETV IN THE LANDSCAPE OF ENVIRONMENTAL SCHEMES

ETV Stakeholder Forum. June 2024

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Table of contents

- **Background**
- **Objective of the presentation**
- **Environmental schemes considered**
  - **Organizations Environmental Management**
    - EMAS
    - ISO 14001
  - **Evaluation of a specific environmental aspect**
    - Decarbonization certificates
    - Carbon footprint
    - Water Footprint
  - **Environmental product/Technology performance**
    - LCA
    - Ecolabel
    - EPD
  - **Overall ETV position in environmental schemes landscape**
- **Conclusions**

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Background

Demand for green innovation is growing. Technological innovation is needed to reach ambitious environmental goals like NetZero, Zero Waste, Circular Economy, or even Green Deal and fulfill new requirements such as CSRD, ESG, and Taxonomy. Green transition will not be possible without innovative green technologies.
These buzzwords are key motivations among companies and influence strategies and decisions at businesses.
Credibility, compatibility, certifications and verifications based on data and information will be even more valuable and help to avoid greenwashing.
These schemes has certain synergies with ETV and able to support each other.

Objectives

- To explore the relationship: synergies and ETV unique points, within the landscape of environmental schemes

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Environmental schemes considered

Environmental management systems for organizations

- Eco-Management and Audit Scheme **(EMAS)**
- **ISO 14001**

Evaluation of specific environmental aspect

- **Decarbonizations certificates**
- **Water footprint**
- **Carbon footprint**

Environmental product/technology performance

- **Life Cycle Assessment (LCA)**
- **Environmental Product Declaration (EPD)**
- **Ecolabel**

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Organizations environmental management → Kovet

Organizations environmental scheme purpose: These schemes focus on the entire organization, the overall environmental performance of the organization and the targets, goals and achievements to reduce environmetal load.

- **EMAS – Eco-Management and Audit Scheme:** Evaluate, report and improve the environmental performance of an organization, a voluntary scheme based on 1221/2009 EU Directive
- **EN ISO 14001:** the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance. Voluntary scheme

ETV positions

- **Synergies**

ETV verification can contribute to the entire environmental performance of organizations.

- **ETV unique points**

Environmental Management Schemes are focusing on organization whlie ETV is on technologies

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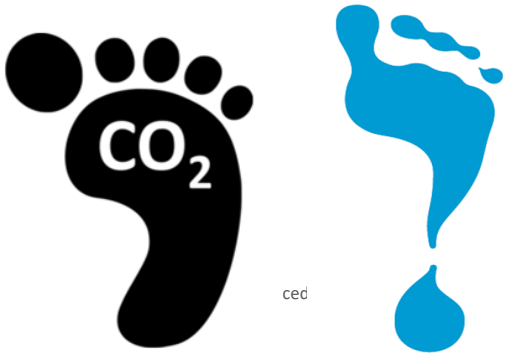
Evaluation of specific environmental aspect

Schemes of specific environmental aspect: These schemes focus on the evaluation of an specific environmental parameter, they may consider, organizations, products, technologies, etc.

Carbon Footprint: The total amount of GHG emissions connected to the entire life cycle of a product, a process or an organization (Scope 1, 2,3). Voluntary scheme (ESG – required data) - ISO14064, ISO14069, GHG Protocol

Decarbonization certificates: Decarbonization is needed for companies to reach Net-Zero targets.

Water footprint: Calculates the water usage considering both, direct and indirect consumption, it can be applied to a product, process, organization, company, etc.



ETV positions

- Synergies

Water footprint and ETV: Water footprint may be incorporated into ETV as an additional parameter. ETV verified technologies can be used to decrease the water footprint of a specific process where they are incorporated

Carbon footprint and ETV: ETV verified technologies can reduce GHG emissions

- ETV unique points

ETV is not specialized on only one environmental parameter

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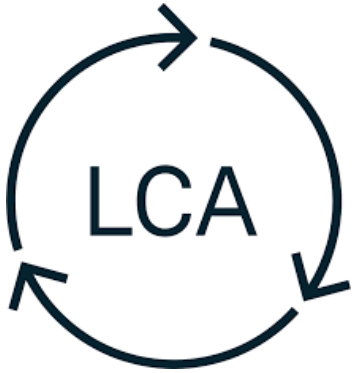
Environmental evaluation technology/product

Evaluation of technology/product: These schemes focus on determining the environmental performance in a specific product or technology

LCA: aims to quantify the environmental impacts that arise from material inputs and outputs, such as energy use or air emissions, over a product's entire life cycle. ISO 14040-49

EPD: Aims at gathering quantified environmental information on the life cycle of a specific product to compare with similar solutions

Ecolabel: Provides a third-party assessment of the environmental impact of a product. Communicates environmental positive performance to consumers.



ETV positions

- Synergies

EPD: Environmental aspects may be incorporated in ETV verification.
EPD and Ecolabel: ETV verified technologies can green products manufacturing

- ETV unique points

ETV verifies performance parameters in addition to the environmental assessment

ETV main target is technologies, rather than products

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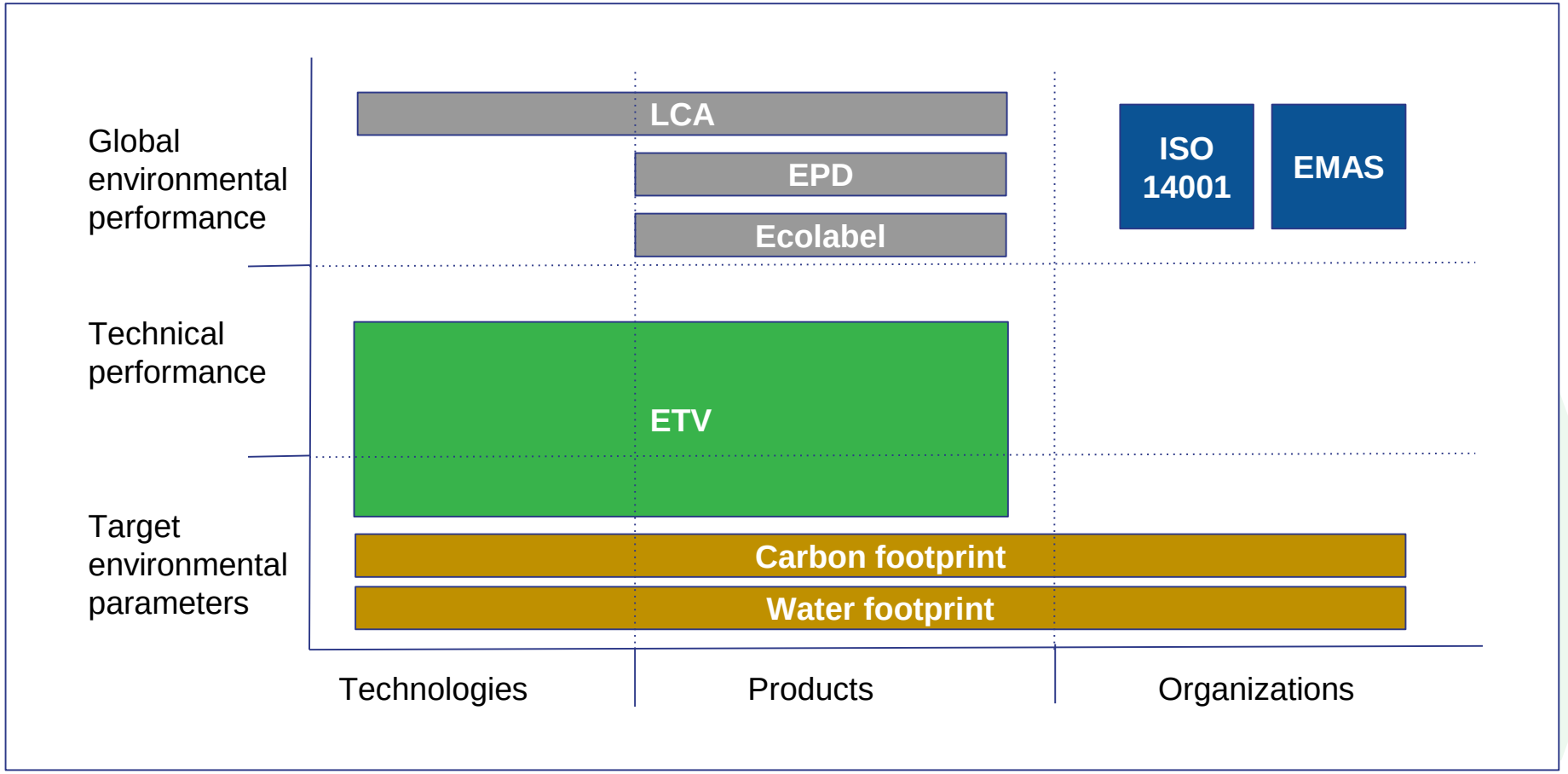
Overall ETV positions in environmental schemes landscape



ETV integrates technical and environmental performance evaluation of technologies and products

ETV verified technologies significantly contribute to green organizations and manufacturing process of products

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Conclusions

Establishing synergies between ETV and other environmental schemes enhances the ETV acceptability and significantly contribute to achieve ETV and other environmental schemes impact.

ETV unique points make it as a reference verification scheme for technologies as it includes environmental and technical performance of innovations

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Thank you very much for your attention

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