LCA for supporting corporate environmental reporting in the EU policy context: opportunity and challenges

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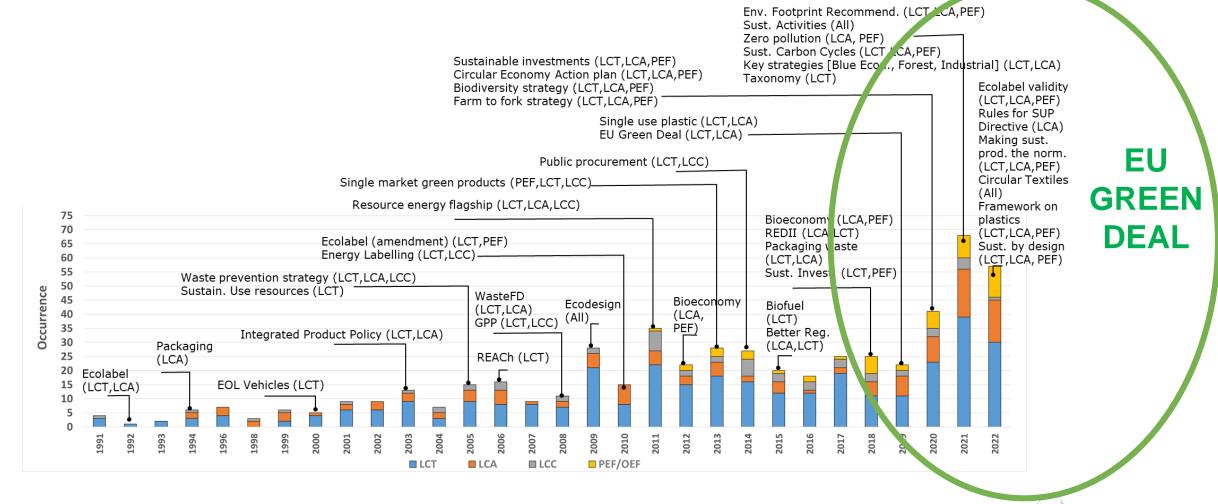
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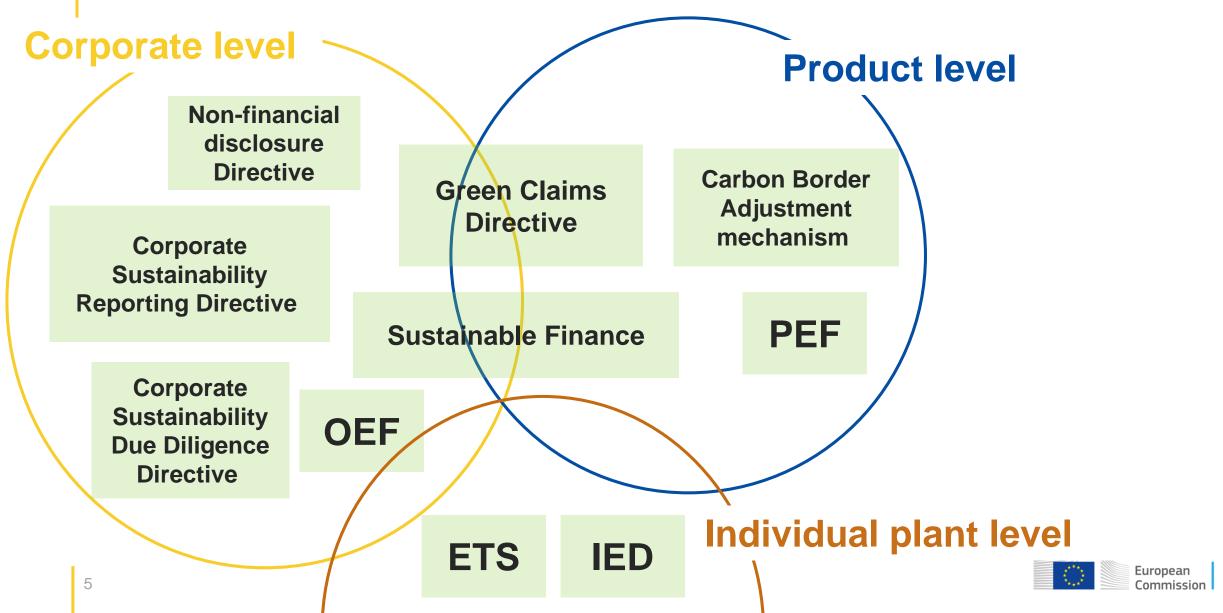


Evolution of LCA in EU policies over the last 30 years





Overview of policies and methods



Organisation Environmental Footprint (OEF)



Commission Recommendation (EU) 2279/2021

- **OEF**: method to evaluate the environmental performances of an organization providing goods or services through a multicriteria analysis, based on the EF method.
- PEF: method to evaluate the environmental performance of products and services

Strenghts

Scientific robustness. Based on a long-standing pilot and transition phase with hundreds of companies involved in different sectors.

Reproducibility of the results, based on prescriptive modelling rules.

Multidimensional indicators, 16 impact categories (including climate change)

Challenges

Need of adhering to stringent modelling and data requirements, compared to standard LCA.

Certain aspects (beyond the existing 16 categories) are not assessed

Transition phase: ongoing update process for general rules and characterization factors

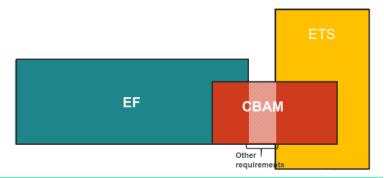


Emission Trading Scheme (ETS) & Carbon Border Adjustment Mechanism (CBAM)

- **ETS**: mandatory mechanism to mitigate specified GHG emissions "Cap and trade" > 11.000 heavy energy-using installations and aviation.
- ≈ 45% EU's GHG emissions coverage

ETS Accounting reporting and verification methods:

- MRR: Monitoring and reporting Regulation (ETS).
- AVR: Accreditation and verification Regulation (ETS)
- **CBAM:** Regulation (EU) 2023/956 aims at addressing imported goods, preventing carbon leakage in EU while incentivizing emissions reduction in third countries.



Strenghts

ETS: proven approach that could be used to increasingly discourage emissions in selected sectors

CBAM: more comprehensive modelling requirements

Challenges

ETS: not based on LCA approach, limited in scope to mainly direct emissions

CBAM: under development



SUSTAINABLE FINANCE – Taxonomy

Related Policies: Regulation (EU) 2020/852; Commission Delegated Regulation (EU) 2021/2139; Commission Delegated Regulation (EU) 2022/1214.

- EU Taxonomy supports the classification of investments according to sustainability criteria, based **on 6 environmental objectives**: a) Climate change mitigation, b) Climate change adaptation c) Sustainable use and protection of water and marine resources d) Transition to a circular economy e) Pollution prevention and control f) Protection and restoration of biodiversity and ecosystems
- Criteria for climate change mitigation based on different methods e.g.: Environmental Footprint; ISO 14064-1:2018, ISO 14067:2018, FAO Global Resources Assessment 2020, Directive 2018/2001 RED II, 2006 IPCC Guidelines for National Greenhouse Gas Inventories.



Strenghts

Promote sustainable activities in many different sectors

Identify criteria (easy to be checked / verified) that activities should comply with to claim their belonging to taxonomy

Challenges

Uses the Do Not Significant Harm (DNSH) principle, but not necessarily following a LCA approach.

Criteria for different objectives are tailored for different sectors. The methods are not necessarily consistent across sectors and objectives.



Non-financial reporting Directive (NFRD)

- NFRD (2014/95/EU) goal: transparency enhancement for large companies, to disclose non-financial information including: env. risk assessment, GHG emissions, energy consumption, water usage, waste management practices, environmental policies, targets, and measures taken to mitigate environmental risks.
- Promotion of Global Reporting Initiative
 (GRI), International Integrated Reporting Council (IIRC), etc.

Strenghts

Holistic environmental reporting. Opportunity to report scope 3 emissions.

Supply change engagement. Potential increased collaboration especially for scope 3 emissions.

Challenges

The development of guidance based on standards is ongoing for the Directive which is superseding this one

Completeness of information



Corporate Sustainability Reporting Directive (CSRD)

- CSRD (2022/2464/EU) goal: enhance sustainability transparency by standardizing and mandating reporting on environmental, social, and governance (ESG) factors.
- Companies subject to CSRD will have to report according to *European Sustainability Reporting Standards*. Draft standards developed by the European Financial Reporting Advisory Group (EFRAG).

EU Commission should adopt the first set of standards by June 2023, based on the drafts

published by EFRAG.

Corporate Sustainability Reporting Directive

Strenghts

Apply the content of Green Taxonomy criteria in conjunction with other relevant EU policies (Climate EU Law.)

Reference to standards for general reporting on sustainability.

Challenges

Standardization under development, including for data availability and reliability.

Procedures for verification under development.



Corporate Sustainability Due Diligence Directive (CSDDD) (proposal)

- Ensure that businesses address adverse impacts of their actions, including in their value chains inside and outside Europe.
- Large companies need to have a plan to ensure that their business strategy is compatible with limiting global warming to 1.5 °C (Paris Agreement). They are incentivized to contribute to sustainability and climate change mitigation goals.
- The EU Parliament adopted its position 1st June 2023 (final adoption expected by end 2023)

Strenghts

Fostering due diligence and high commitment at high-level of companies

Preventing scandals and fostering good practices for companies

Challenges

Risk that commitments will not be substantial (greenwashing)

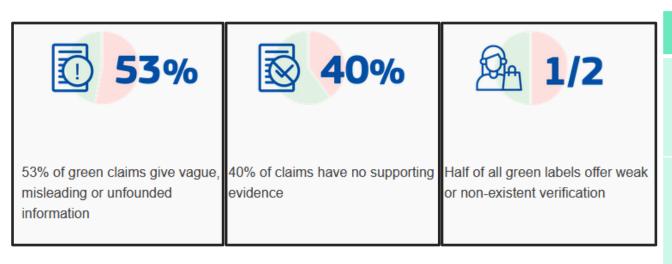
Following a life cycle thinking but not recommending any specific standard method (proposal under development).





Green Claims Directive (proposal)

- Different types of claims will require different levels of substantiation. The proposal does <u>not prescribe a single method</u> and does <u>not require</u> conducting a <u>full life-cycle</u> <u>analysis</u> for each type of a claim.
- When specifying further the requirements for substantiation of explicit environmental claims, the Commission shall take into account scientific or other available technical information, including relevant international standards.



Strenghts

Powerful tool for best performing companies to communicate their environmental performances

Build trust of consumers on green claims from companies (including member states also settings procedures for verification of the claims)

Challenges

Claims are open to a variety of methods and different aspects to be reported (e.g. offsetting GHG emissions).

Need for robust data (especially for SME's) to substantiate the claims



Concluding Remarks

Opportunities

- Different existing policies in relation to carbon (and other environmental aspects) accounting and tools
- •Opportunity for synergies and increase consistency in accounting approaches while encouraging compliant companies & less administrative and technical burdens.
- •Policy driven provision of data, with a defined level of quality.
- •Discussion ongoing also in different/additional domains (e.g. for natural capital accounting at corporate level following biodiversity strategy ambitions)

Challenges

- Wide variety of methods with the risk of inconsistencies in reporting requirements (especially when addressing aspects at different levels as product/plant/corporate).
- Risk of burden shifting of environmental impacts (or misleading claims) when the reporting is related only to some aspects
- Difficulties to share high quality data along the supply chains (including availability to share confidential information)



Thank you



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