

Techno-Economic Assessment Reporting Checklists
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Checklist - Executive Summary

Goal Definition

- State goal and context of the study
- State intended application(s)

Scope Definition

- State product application and functional unit
- State system boundaries
- State benchmark products and systems
- State assessment indicators and methods

Inventory Analysis

- State key assumptions, relevant parameters, and their data quality

Calculation of Indicators

- State main results

Interpretation

- State conclusions, limitations, and recommendations, if any

Checklist - Main Report

Goal Definition

- State goal, study context, and the reasons for the study
- State the intended application and target audience of the study
- State commissioners and authors of the study
- State limitations in the applicability of the study
- State the analyzed scenarios and their conditions

Scope Definition

- State product application(s), functional units, and reference flows
- For corporate-perspective TEAs, state at least one customer group and their needs
- State elements and boundaries of product system in a graphical scheme, potentially state reasons for excluding upstream processes
- State benchmark products and systems
- State technology maturity for system elements and the overall product system
- State the selected indicators and assessment methods, including data availability associated with technology maturity
- Document remaining inconsistencies, if any

Inventory Analysis

- Document technological and economic parameters, decisions and assumptions, where possible based on functional unit and reference flow
- Justify context-specific assumptions and parameters, discuss scale and maturity, as well as temporal, geographic, and regulatory context and related limitations and risks, especially for key inputs such as CO₂, hydrogen, electricity, minerals, fossil feedstocks, or catalysts
- State types and sources of data, including quality and confidentiality
- Report CO₂ capture cost; otherwise, if not available, include statement
- Document characteristics and limitations of data utilized
- Document data in SI units or provide unit definitions
- Document data for each system element independently
- Display economic data collectively

Calculation of Indicators

- State calculation procedures, including potential additional assumptions and estimates utilized
- Present equations for each indicator applied; for uncommon methods, describe motivation
- State all relevant results for the overall system as well as for each system element individually

Interpretation

- Describe uncertainty and sensitivity of the results
- Provide conclusions, presenting the whole spectrum of criteria relevant for decision making
- Discuss limitations
- State recommendations, if any