Green Steel for Europe

Kick-off meeting - Brussels, 16 January 2020

CEPS_thinktank
Objectives

Support the 2030 EU climate and energy targets and the 2050 long-term strategy for a climate-neutral Europe, with solutions for clean steel making

General objective

Specific objectives

Operational objectives

- Analyse technological routes to decarbonisation and boundary conditions
- Define best approaches to blending and sequencing public and private funding sources
- Recommend policy options for EU to foster the decarbonisation of the steel industry
- Ensure stakeholders’ engagement and the proper dissemination of project findings

- Analyse breakthrough technologies
- Quantify the investment needs against technological trends
- Define EU policy objectives based on problem identification
- Industrial commitment

- Develop decarbonisation technology roadmap
- Map funding opportunities and analyse synergies
- Assess the economic, social and environmental impact of policy options for decarbonisation of the steel industry
- Uptake of project results

- Develop pathways to decarbonisation of the steel industry in mid-term (2030) and long-term (2050)
- Assess the impact on EU industrial leadership
- Stakeholder consultation
Proposed approach

WP1 Technology roadmapping

WP2 Investment and funding

WP3 Impact assessment

WP4 Dissemination and stakeholder engagement

WP5 Project Management

Unique Consortium featuring 10 partners

Open and transparent stakeholder consultation
WP1 Technology roadmapping

- **Lead by BFI**, with support from all partners
- **Duration**: Month 1 (January 2020) to Month 17 (May 2021)
- **Key objectives:**
  - Cover the technical aspects of the project
  - Identification and aggregation of promising technologies
  - Prognosis of maturity progress with focus on demonstration
  - Assessment of barriers
  - Pathways for industrial deployment 2030 and 2050
  - Industrial commitment through intensive stakeholder engagement
WP1 Technology Roadmapping

WP 4 (Consultation strategy, workshop)

Task 1.1: Analysis and summary of promising technology routes

Task 1.2: Selection of most promising technology routes and roadmapping

Task 1.3: Identification of financial and non-financial barriers

Task 1.4: Decarbonisation Pathways 2030

WP 2 (investment needs)

WP 3 (impacts)

Task 1.5: Decarbonisation Pathways 2050

WP 2 (investment needs and funding)

WP 4 Dissemination

Input of RFCS-project
WP2 Investment and funding

- **Lead by CSM**, with support from all partners
- **Duration**: Month 1 (January 2020) to Month 15 (March 2021)
- **Key objectives:**
  - Detecting relevant investment needs
  - Identifying EU and national, public and private funding opportunities
  - Proposing blending and sequencing solutions to maximise the impact of existing and forthcoming funding opportunities
WP2 Investment and funding

WP1 (best routes)

WP1 (technology roadmapping, financial barriers, decarbonisation pathways)

Task 2.1: Identification of investment needs

WP 3 (financial barriers, problem definition)

Task 2.2: European public and private funding programmes

Task 2.3: National and regional public and private funding programmes

Task 2.4: Synergies in funding strategies, cooperation, success stories

WP 3 (financial policy options)

Task 2.5: Consultation activities for WP2

WP 4 (Consultation strategy, workshop)

WP 4 Dissemination

WP3 (consultation on financial problems and financial policy options)
WP3 Impact Assessment

- **Lead by CEPS**, with support from all partners
- **Duration**: Month 7 (July 2020) to Month 17 (May 2021)
- **Key objectives**:
  - Identifying problems impinging on the decarbonisation of the steel industry
  - Setting the objectives of a possible EU policy intervention and defining a number of financial and non-financial policy options
  - Assessing the potential economic, social and environmental impacts of the policy options as well as their impacts on EU industrial leadership
  - Providing policy recommendations for EU policymakers
WP3 Impact assessment

Task 3.8: Consultation activities for WP3

Task 3.1: Problems to be addressed

Task 3.2: EU right and need to act

Task 3.3: Objectives and indicators

Task 3.4: Policy options

Task 3.5: Impacts of the policy options

Task 3.6: Comparison of the policy options

Task 3.7: Monitoring

WP 1 and WP2 (Technical problems, financial and non-financial barriers, consultation)

WP 1 and WP2 (financial and non-financial options, consultation)

WP4 Dissemination

WP 1 (decarbonisation pathways)
WP5 Project management

Steering Committee
- EU steelmakers
- Independent academic experts

Project Management Committee

European Commission
- Project Director
  - Pietro Gimondo, CSM
  - Thorsten Hauck, BFI
  - Klaus Peters, ESTEP
  - Danny Croon, EUROFER

Quality Assurance Managers
- Policy: Christian Egenhofer, CEPS
- Technical: Klaus Peters, ESTEP

Editor
- Jackie Westl, CEPS

Advisory Board
- Policymakers, energy intensive sectors, energy sector, technology providers, trade unions, NGOs, civil society, etc.

Partners
- CRM, IDONIAL, IMZ, K1-MET, SWERIM
Each member can review the draft deliverables and provide comments, supported by evidence where relevant.

The Research Team will consider the comments received to revise the draft deliverables. Whenever a comment cannot be implemented, a proper explanation will be provided to the Steering Committee.

In case of conflicting comments on which there is no agreement between some members of the Steering Committee and comments where there is no agreement between the Research Team and the Steering Committee dissenting opinions will be fairly reflected in the deliverables.

For comments of a more technical nature, a special opinion may be requested to the independent academic experts that are part of the Steering Committee.
Advisory Board

• Each member can provide feedback on key findings, supported by evidence where relevant.
• The Advisory Board will be informed about the work progress and any consultation activities performed in the context of the project, including workshops, surveys and the final event.
WP4 Dissemination and stakeholders’ engagement
Consultation: provision of primary data

• Who: Steering Committee and technology providers (and other players where relevant)
• How: Interviews or surveys
• When and what:
  • Feb/Mar 2020
    • Technologies
    • Investment needs
    • Funding opportunities
    • Financial and non-financial barriers
  • Sept/Dec 2020
    • Synergies between funding opportunities (e.g. sequencing and blending)
    • Industrial deployment (2030 and 2050)
    • Problem identification and objectives
    • Policy options
  • Jan/Mar 2021
    • Impact assessment
Consultation: validation of findings

• Who: Steering Committee and Advisory Board
• How: Surveys, follow-up interviews, workshops
• When and what:
  • Jul/Aug 2020
    • Technologies
    • Investment needs
    • Funding opportunities
    • Financial and non-financial barriers
  • Feb 2021
    • Overall findings of WP2 Investment and funding – Validation workshop
  • Mar 2021
    • Overall findings of WP1 Technology roadmapping – Validation workshop
  • Mar/May 2021
    • Overall findings of WP3 Impact assessment (open to the public)
Thank you for your attention!