



NDC ASPECTS Newsletter #11

The latest NDC enhancement & Global Stocktake research news

Welcome to the last NDC ASPECTS newsletter!

Dear colleagues,

Welcome to the latest news on NDC enhancement and the Global Stocktake, powered by NDC ASPECTS. In this issue, we present recent papers on topics such as EU green iron imports for a more competitive steel industry, climate club design options, and the effects of “Industrial Policy Nationalism”. We also present modelling results and country fact sheets produced by NDC ASPECTS’s partners, plus, a shiny new project that will take up the baton from NDC ASPECTS.

Enjoy the read!

Goodbye NDC ASPECTS ... and welcome ACCLIMATE!



With this newsletter, the NDC ASPECTS activities come to an end. We hope you enjoyed the regular news and found the project results useful. You are cordially invited to follow a new Horizon Europe project building on NDC ASPECTS called ACCLIMATE. ACCLIMATE will identify needs for improvements of NDCs and long-term strategies. A focus will be set on adequacy, fairness, and feasibility, as well as on needs for improving current policies and measures to achieve NDCs and long-term objectives.

Like NDC ASPECTS, ACCLIMATE is going to focus on the sectors of industry, buildings, AFOLU, transport, as well as energy supply. It will enhance the capacity in partner countries to develop and model mitigation strategies and pathways and to analyse and develop respective policy strategies and packages.

ACCLIMATE will start early 2025. Subscribing to the ACCLIMATE newsletter is already open in the link below and we would be honoured if you joined us:

https://docs.google.com/forms/d/e/1FAIpQLSe0rZL-Rs1Ifi2KXKIZAJ2kzU3xZSN_JTALus2u3nDuoCJMQ/viewform

Policy briefs steel decarbonization, light electric vehicles, and rebound effects in the buildings sector

NDC ASPECTS has recently published a series of policy briefs on various aspects of sectoral transformations towards climate neutrality:

- [EU green iron imports for a more competitive steel industry](#)
- [The potential of scrap use for EU steel decarbonization](#)
- [Shifting unavoidable private mobility to lighter electric vehicles](#)
- [Investments and possible rebound effects in decarbonising the Buildings sector](#)



POLICY BRIEF #14

EU Green iron imports for a more competitive EU steel industry and economy and accelerated, lower cost decarbonization

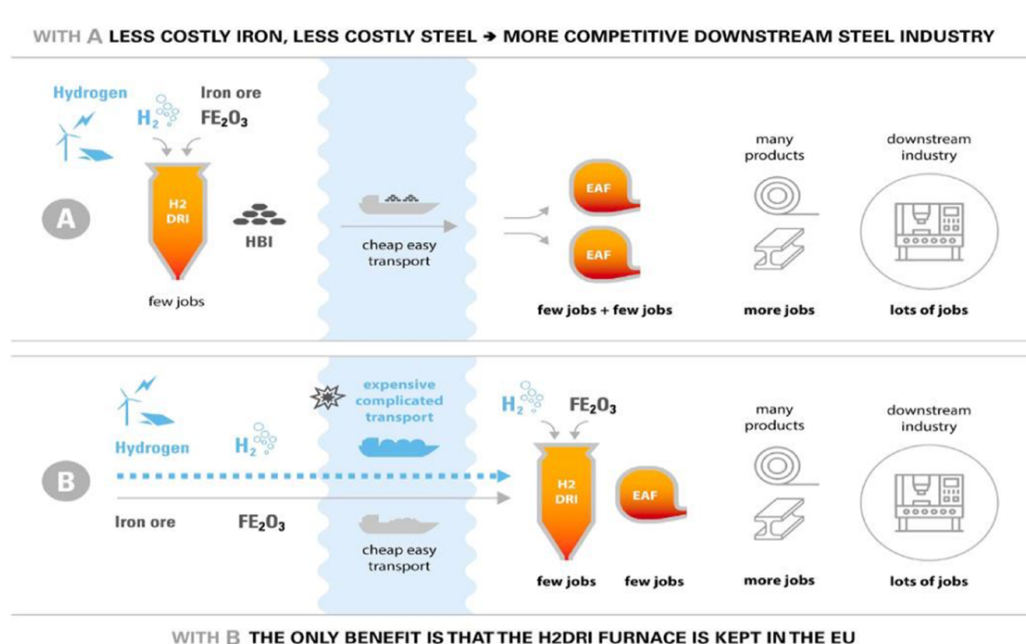


Figure - Alternative locations for green iron manufacture

New journal articles on international cooperation for industrial decarbonization, global trade of green iron, and modelling of forests-based mitigation

The work of NDC ASPECTS researchers links global, national, and sectoral perspectives on transformative climate action. Please find below recent journal articles of consortium members on these topics (mostly open access):

- Otto, S., & Oberthür, S. (2024). International cooperation for the decarbonization of energy-intensive industries: unlocking the full potential. *Climate Policy*. ([link](#))
- Hall C. (2024). Towards minilateral climate governance? Analysing climate club design options through the lens of common but differentiated responsibilities and respective capabilities. *RECIEL*. ([link](#))
- Rouhette, Théo et al. (2024). Limits to forests-based mitigation in integrated assessment modelling: global potentials and impacts under constraining factors. *Environmental Research Letters* ([link](#))
- Bilici, S. et al. (2024). Global trade of green iron as a game changer for a near-zero global steel industry? - A scenario-based assessment of regionalized impacts. *Energy and Climate Change* ([link](#))

**RECIEL**
Review of European, Comparative & International Environmental Law

ORIGINAL ARTICLE |  Open Access |  

Towards minilateral climate governance? Analysing club design options through the lens of common but differentiated responsibilities and respective capabilities

Catherine Hall 

First published: 31 October 2024 | <https://doi.org/10.1111/reel.12582>

**ELSEVIER**

Contents lists available at [ScienceDirect](#)

Energy and Climate Change

journal homepage: www.sciencedirect.com/journal/energy-and-climate-change

Full Length Article

Global trade of green iron as a game changer for a near-zero global steel industry? - A scenario-based assessment of regionalized impacts

Süheyb Bilici^{a,*}, Georg Holtz^b, Alexander Jülich^c, Robin König^d, Zhenxi Li^e, Hilton Trollip^f, Bryce Mc Call^g, Annika Tönjes^h, Saritha Sudharma Vishwanathan^{i,j}, Ole Zelt^k, Stefan Lechtenböhrer^l, Stefan Kronshage^m, Andreas Meurerⁿ

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CLIMATE POLICY
<https://doi.org/10.1080/14693062.2024.2397437>

 Taylor & Francis Group

 OPEN ACCESS | 

International cooperation for the decarbonization of energy-intensive industries: unlocking the full potential

Simon Otto^a and Sebastian Oberthür^{a,b}

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ABSTRACT
This article investigates the state of global governance for the deep decarbonization of energy-intensive industries (EIIs) and identifies key options for mobilizing the so far underexploited potential of this global governance. Focusing on four main EIIs (i.e. iron and steel, cement and concrete, chemicals, and aluminium) the analysis is advanced in three steps. First, we establish the theoretical potential of international institutions to address the main barriers to EII decarbonization focusing on six main governance functions. Second, the article provides an up-to-date account of the global governance landscape for EII decarbonization and the contribution it has made to addressing the main barriers. This assessment also identifies major gaps

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 IOP Publishing

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<https://doi.org/10.1088/1748-9326/ad7748>

ENVIRONMENTAL RESEARCH LETTERS

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OPEN ACCESS

LETTER

Limits to forests-based mitigation in integrated assessment modelling: global potentials and impacts under constraining factors

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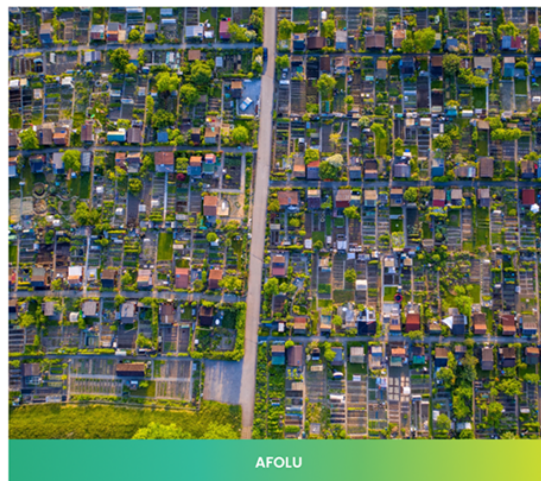
Modelling results for NDC ASPECTS sectors transport, buildings, AFOLU, and energy-intensive industries

NDC ASPECTS' sectoral work focuses on transport and mobility, emission-intensive industries, buildings, as well as agriculture, forestry, and land-use.

For each of these sectors, a dedicated space for the project's modelling has been created on the NDC ASPECTS website. Access the individual sectors' pages at:

- a) Transport: <https://www.ndc-aspects.eu/results-transport>
- b) Buildings: <https://www.ndc-aspects.eu/results-buildings>
- c) Industry: <https://www.ndc-aspects.eu/results-energy-intensive-industries>
- d) AFOLU: <https://www.ndc-aspects.eu/results-agriculture-forestry-and-other-land-use>

The full modelling results on the sectoral studies can be accessed through the dedicated workspace at the [I²AM PARIS platform](#).



New: country fiches on NDC implementation, transformation challenges, and specific sectoral pathways

Summaries of NDC ASPECTS project results for selected countries around the world are available now. The 20 country fiches gather insights emerging from the scenario development of NDC ASPECTS that can be relevant to design the next round of NDCs. They provide key lessons on (1) long-term

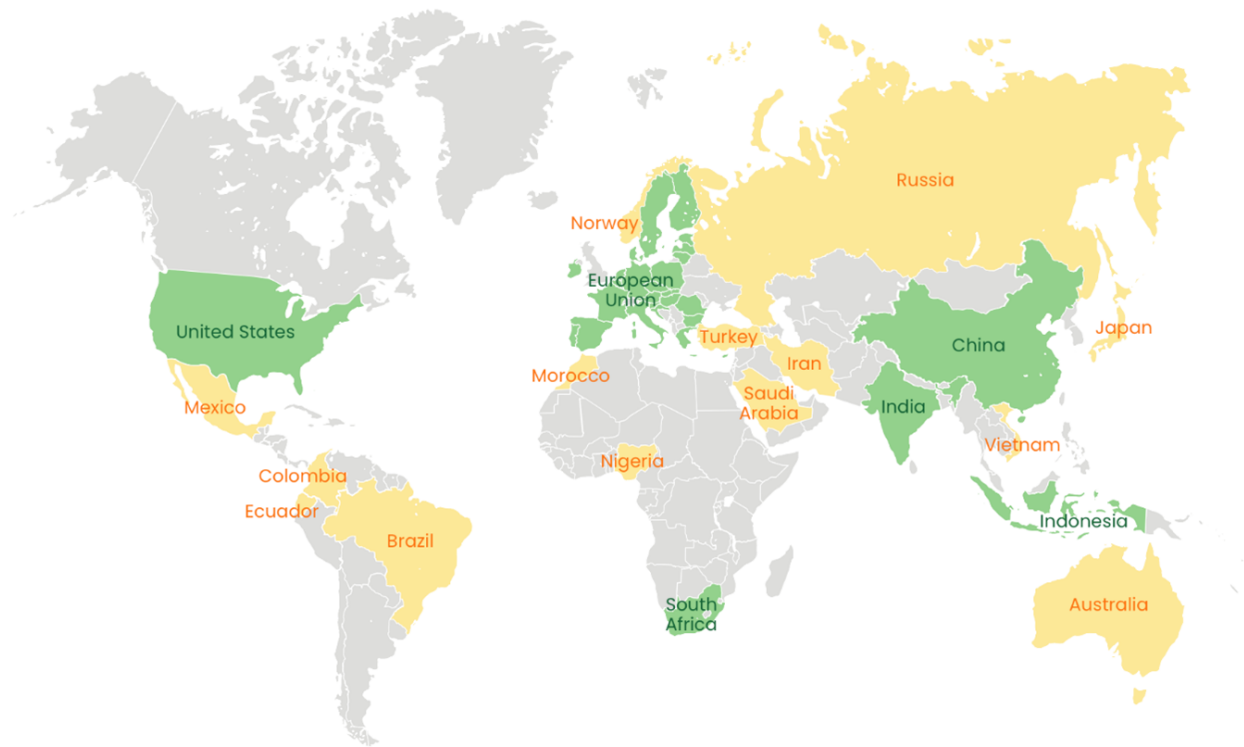
transformations, (2) key short-term actions to be taken, and (3) insights into cooperation needs to operationalise these transformations.

Find out more at: <https://ndc-aspects.eu/country-results-full>

Here we provide a summary of project results for 20 selected countries around the world.

Click on the map below to view a country fiche for each country. The country fiches gather insights emerging from the scenario development of NDC ASPECTS and they can be relevant to design the next round of NDCs. They provide key lessons on (1) long-term transformations, (2) key short term actions to be taken, and (3) insights into cooperation needs to operationalise these transformations.

You can also explore an analysis of the [implementation risks of Nationally Determined Contributions](#) (NDCs) to the Paris Agreement for these 20 countries and a deep dive into four diverse countries to evaluate their enhancement of NDC targets.



IAMC2024: conference presentations on “industrial policy nationalism” and impacts of sectoral mitigation on multiple SDGs available

The 17th meeting of the Integrated Assessment Modeling Consortium (IAMC) was held in early November 2024 in Seoul, South Korea. Two papers from NDC ASPECTS were presented and discussed among the wider IAM community.

- Dirk-Jan van de Ven: Optimising sectoral contributions for Paris-compatible emission budgets over multiple SDG trade-offs. Read the extended abstract [here](#).
- Panagiotis Fragkos: Economic and Environmental Effects of Industrial Policy Nationalism. View the extended abstract [here](#).



17th IAMC Annual Meeting

Yonsei University, Seoul, South Korea, 4-6 November 2024

NDC ASPECTS partner projects

You can find out about our notable partner projects here:

<https://www.ndc-aspects.eu/about-project/synergies>





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