

NDC ASPECTS NEWSLETTER - SEPTEMBER 2024

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NDC ASPECTS Newsletter #10

The latest NDC enhancement & Global Stocktake research news

Welcome to the new NDC ASPECTS newsletter!

Dear colleagues,

Welcome to the latest news on NDC enhancement and the Global Stocktake, powered by NDC ASPECTS, the EU Horizon 2020 project assessing sectoral perspectives to support the Global Stocktake and subsequent NDCs.

In this issue, we present highlights from the NDC ASPECTS & 4i-TRACTION policy conference, discuss the potential of international cooperation for decarbonizing energy-intensive industries, analyse design options for climate clubs, and much more.

Happy reading!

Time to walk the talk: highlights from the NDC ASPECTS & 4i-TRACTION policy conference



The transition to climate neutrality will be key to meet the objectives of the Paris Agreement. Against this background, the next legislative cycle of the EU needs to yield crucial decisions moving the European Green Deal forward. Seeking to spotlight key issues in the transition to climate neutrality and discuss options to address them, a Policy & Research Dialogue Conference took place on the 9th and 10th of July at the VUB U-residence in Brussels. The conference was organised by the Horizon 2020 research and innovation projects [4i-TRACTION](#) and [NDC ASPECTS](#) that have been working over the past three years to generate new insights on climate action challenges in Europe and globally.

Read more at <https://www.ndc-aspects.eu/blog/now-its-time-walk-talk-overview-ndc-aspects-4i-traction-final-event>.

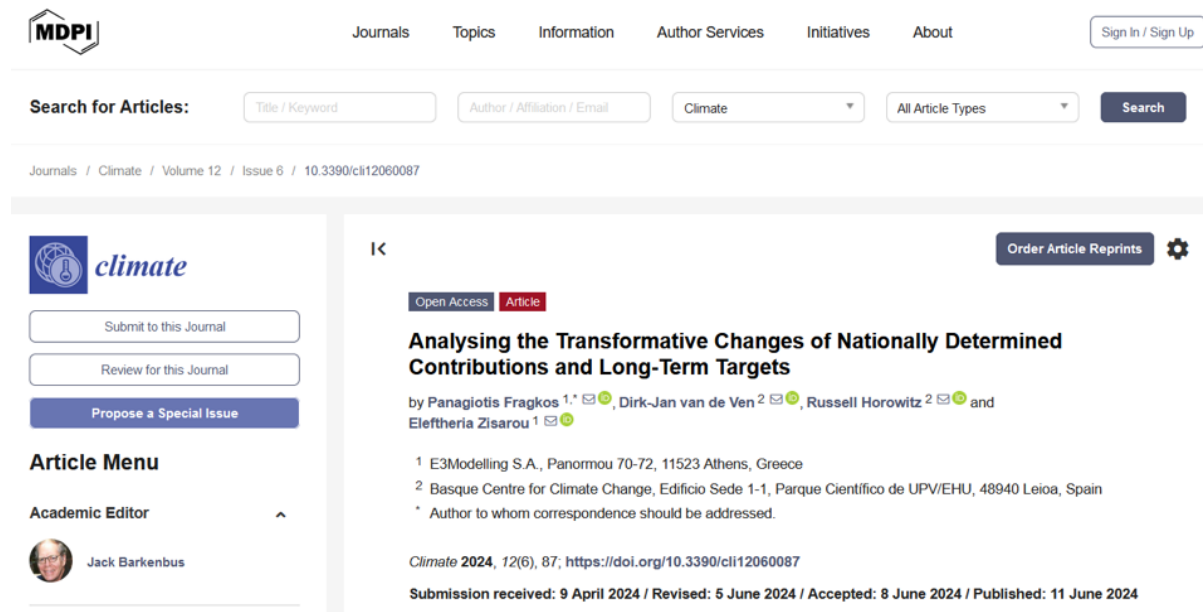
For a summary of NDC ASPECTS' achievements, go to https://cinea.ec.europa.eu/featured-projects/guiding-way-net-zero-how-ndc-aspects-shaping-sustainable-future_en.

To find out more about NDC ASPECTS' sectoral conversations, see [this paper](#) on the underlying methodology.

How can NDCs and Long-Term Targets contribute to achieving ambitious climate goals?

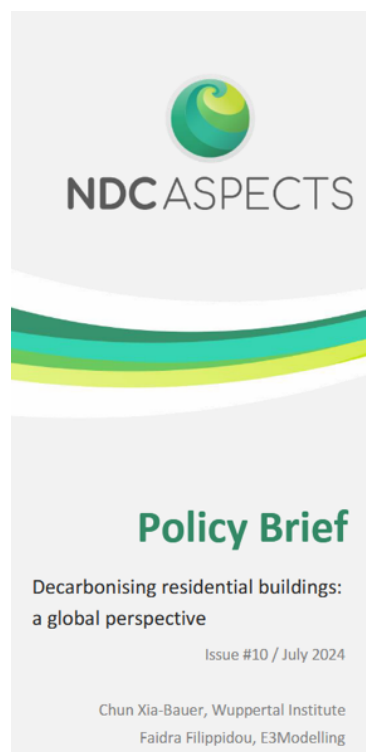
NDC ASPECTS members Panagiotis Fragkos, Dirk-Jan van de Ven, Russell Horowitz, and Eleftheria Zisarou recently published a study in *Climate* examining the extent to which Nationally Determined Contributions (NDCs) and Long-Term Targets (LTTs) can contribute to achieving ambitious climate goals. Two advanced modelling tools – PROMETHEUS and GCAM – are employed to assess the implications of different policy scenarios on the future development of energy system and emissions.

Read the full article at <https://www.mdpi.com/2225-1154/12/6/87>.



The screenshot shows the MDPI Climate journal website. The top navigation bar includes links for Journals, Topics, Information, Author Services, Initiatives, and About, along with a Sign In / Sign Up button. A search bar is present with fields for Title / Keyword, Author / Affiliation / Email, and a dropdown for Climate. The article title is "Analysing the Transformative Changes of Nationally Determined Contributions and Long-Term Targets" by Panagiotis Fragkos, Dirk-Jan van de Ven, Russell Horowitz, and Eleftheria Zisarou. The article is marked as Open Access. The submission received date is 9 April 2024, revised 5 June 2024, accepted 8 June 2024, and published 11 June 2024.

New NDC ASPECTS policy brief on decarbonising residential buildings



Building decarbonisation strategies and policies vary among world regions due to socio-economic development frameworks, climate conditions, building stock status, and energy consumption. Policymakers in the EU, China, and India have acknowledged the necessity of implementing comprehensive policy packages to decarbonise their residential building stock. In a new policy brief by NDC ASPECTS members Chun Xia-Bauer (Wuppertal Institute) and Faidra Filippidou (E3-modelling), the authors examine key existing policies and options to further enhance them.

Download the brief at https://www.ndc-aspects.eu/sites/default/files/2024-07/Policy%20brief%20building_WP1_EUCHINAIND.pdf.

Towards Minilateral Climate Governance? Climate Club Design Options



A range of new and dynamic climate governance arrangements recently has emerged, including the so-called ‘climate clubs’. By crafting deals in smaller settings, climate clubs might allow for higher climate ambition, more effective implementation, and quicker decision-making processes. On the other hand, they raise some complex questions, including concerns about equity. A new study by Catherine Hall, University of Eastern Finland, examines how different climate club design options raise implications from the perspective of CBDR-RC, with respect to how the principle has been articulated and operationalised under the climate regime. Concrete examples of three existing club-like arrangements that differ significantly in terms of their key design features are analysed, including the Climate Club launched by the G7, the Clean Energy Ministerial (CEM), and the proposed EU-US Global Arrangement on Sustainable Steel and Aluminium (GASSA).

Read more at <https://ndc-aspects.eu/blog/towards-minilateral-climate-governance-analysing-climate-club-design-options>.

Brand new article: unlocking the potential of international cooperation for decarbonizing energy-intensive industries



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Research Article

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

Simon Otto & Sebastian Oberthür

Received 24 Apr 2024, Accepted 22 Aug 2024, Published online: 12 Sep 2024

Cite this article https://doi.org/10.1080/14693062.2024.2397437 Check for updates

Just a couple of days ago, a new article by NDC-ASPECTS researchers Simon Otto and Sebastian Oberthür was published in Climate Policy. The piece investigates the state of global governance for the deep decarbonization of energy-intensive industries and identifies key options for mobilizing the so far underexploited potential of this global governance. The authors find that although global governance for the decarbonization of energy-intensive industries has advanced considerably, key governance gaps remain regarding rules for market creation and addressing carbon leakage, means of implementation and inter-institutional coordination, with the main barrier for addressing carbon leakage being rooted in (geo)politics driven by resurging great power rivalry and protectionist industrial policies.

Access the full article at

<https://www.tandfonline.com/doi/full/10.1080/14693062.2024.2397437#abstract>.

International shipping in a world below 2 °C

While integrated assessment models (IAMs) are often used to explore climate mitigation strategies, they typically provide little information on international shipping, which accounts for emissions of around 0.7 GtCO₂ yr⁻¹. NDC ASPECTS' member Panagiotis Fragkos contributed to a major multi-model exercise on the future of international shipping in a world below 2 °C. The authors performed a multi-IAM analysis of international shipping and show the potential for decreasing annual emissions in the next decades, with reductions of up to 86% by 2050. Read more [here](#) (not open access).

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International shipping in a world below 2 °C

Eduardo Müller-Casseres, Florian Leblanc, Maarten van den Berg, Panagiotis Fragkos, Olivier Dessens, Hesam Naghash, Rebecca Draeger, Thomas Le Gallic, Isabela S. Tagomori, Ioannis Tsiropoulos, Johannes Emmerling, Luiz Bernardo Baptista, Detlef P. van Vuuren, Anastasis Giannousakis, Laurent Drouet, Joana Portugal-Pereira, Harmen-Sytze de Boer, Nikolaos Tsanakas, Pedro R. R. Rochedo, Alexandre Szklo & Roberto Schaeffer

Nature Climate Change 14, 600–607 (2024) | Cite this article

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Comparing net zero pathways across the Atlantic: comparing integrated assessments and bottom-up energy system models for Europe and North America

16.07.2024

New article: A model inter-comparison exercise between the Energy Modeling Forum 37 and the European Climate and Energy Modeling Forum

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Europe and North America account for 32% of current carbon emissions. Both regions have different policy and technological pathways to reach net zero by the mid-century. These differences go back to distinct legacy systems, energy infrastructure, socioeconomic development, and energy resource endowment.

Against this background, NDC ASPECTS member Panagiotis Fragkos (E3-Modelling) participated in an international study examining the results from net zero emission scenarios for Europe and North America. In this analysis, an inter-

comparison of various integrated assessments and bottom-up energy system models was performed.

Read more at <https://www.ndc-aspects.eu/news-events/new-article-model-inter-comparison-exercise-between-energy-modeling-forum-37-and>.

Upcoming event: IAMC Annual Meeting 04-06 November in Seoul, South Korea



The Integrated Assessment Modeling Consortium (IAMC) announces the Seventeenth IAMC Annual Meeting to be held on November 4-6, 2024 at [Yonsei University, Main Campus](#), Seoul, South Korea. The event will take place in person, with a portfolio of online events as part of the programme. Presentations in oral sessions (keynote sessions, and parallel oral sessions) will be held in person, with attendance both in person and online.

Find out more at <https://www.iamconsortium.org/seventeenth-iamc-annual-meeting-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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