

Industrial Transition Accelerator

Heavy industry in NDCs

May 2025



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distribution**

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What is the Industrial Transition Accelerator (ITA)?

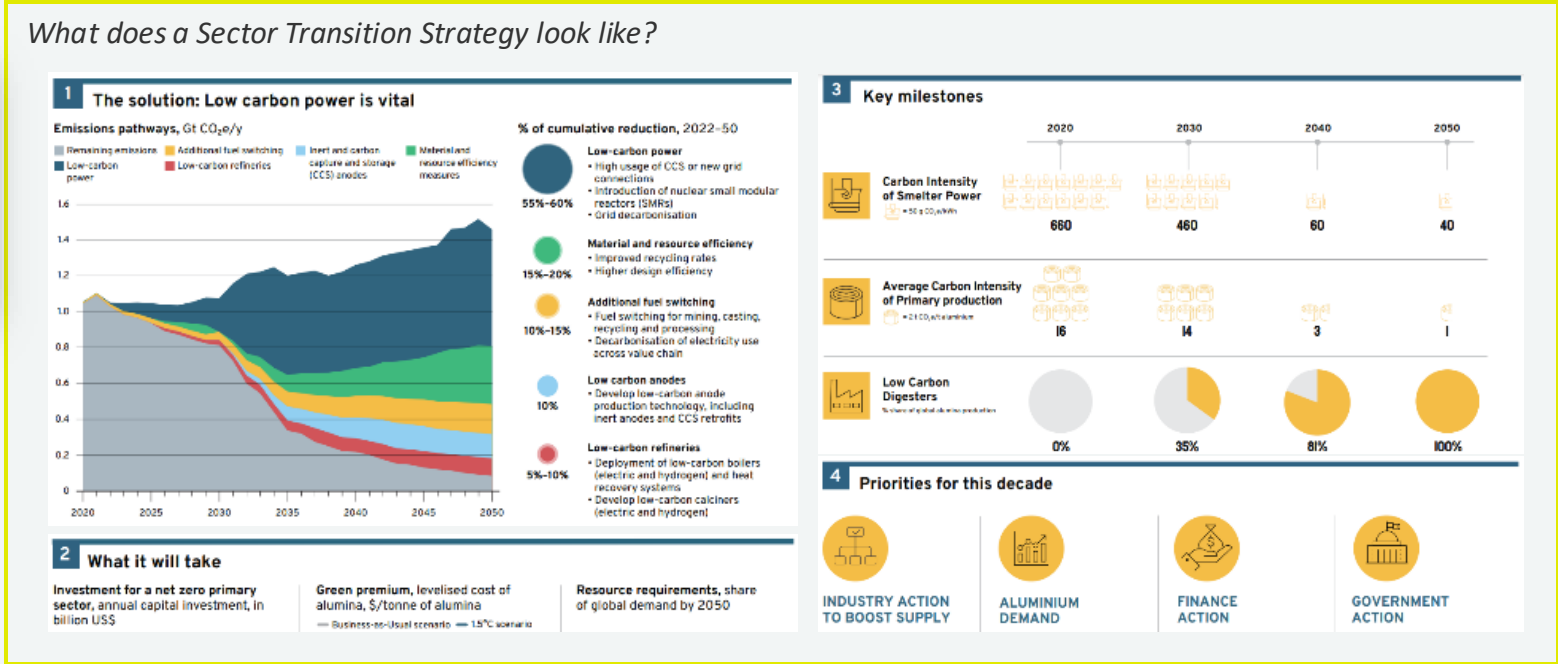
- The ITA is a **global, multistakeholder initiative launched at COP28** aiming to accelerate decarbonisation of the heavy-emitting industrial and transport sectors
- The ITA is **focused on implementation, specifically on supporting deep decarbonisation projects to reach final investment decision (FID) within the next 2-3 years**
- The ITA is co-chaired by Dr. Sultan Al-Jaber (Minister of Industry and Advanced Technology, UAE and COP28 President), Simon Stiell (Executive Secretary, UNFCCC) and Mike Bloomberg in his role as UN Special Envoy.
- It is co-funded by the UAE and Bloomberg Philanthropies
- The ITA's work is **focused on driving impact at:**
 - I. **the local/regional level:** providing tailored project support in specific geographies, and
 - II. **the global level:** shaping a better environment for investment in a broader set of countries.

Mission Possible Partnership (MPP) has developed Sector Transition Strategies, mapping out pathways to align heavy industry and transport with a 1.5C pathway

6+ Sector Transition Strategies

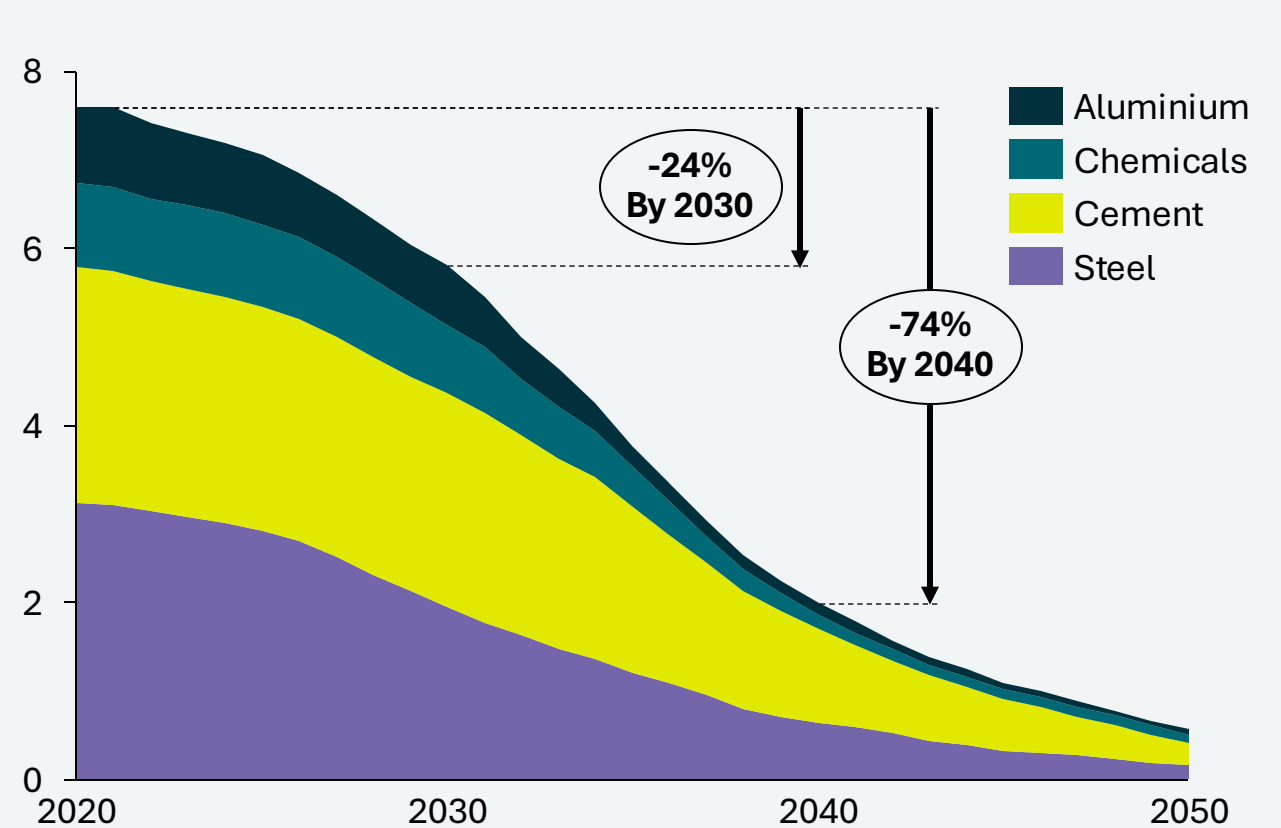


200+ industry endorsers

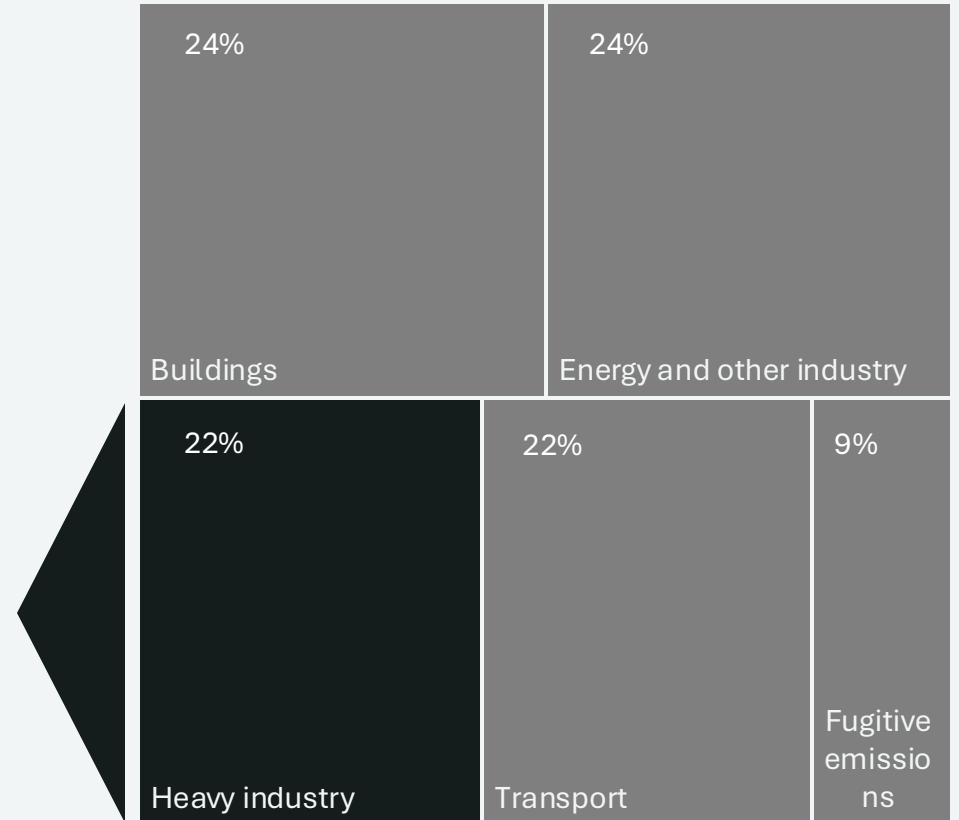


Heavy industry accounts for ~ 22% of global energy and process related emissions – decarbonizing these sectors is possible

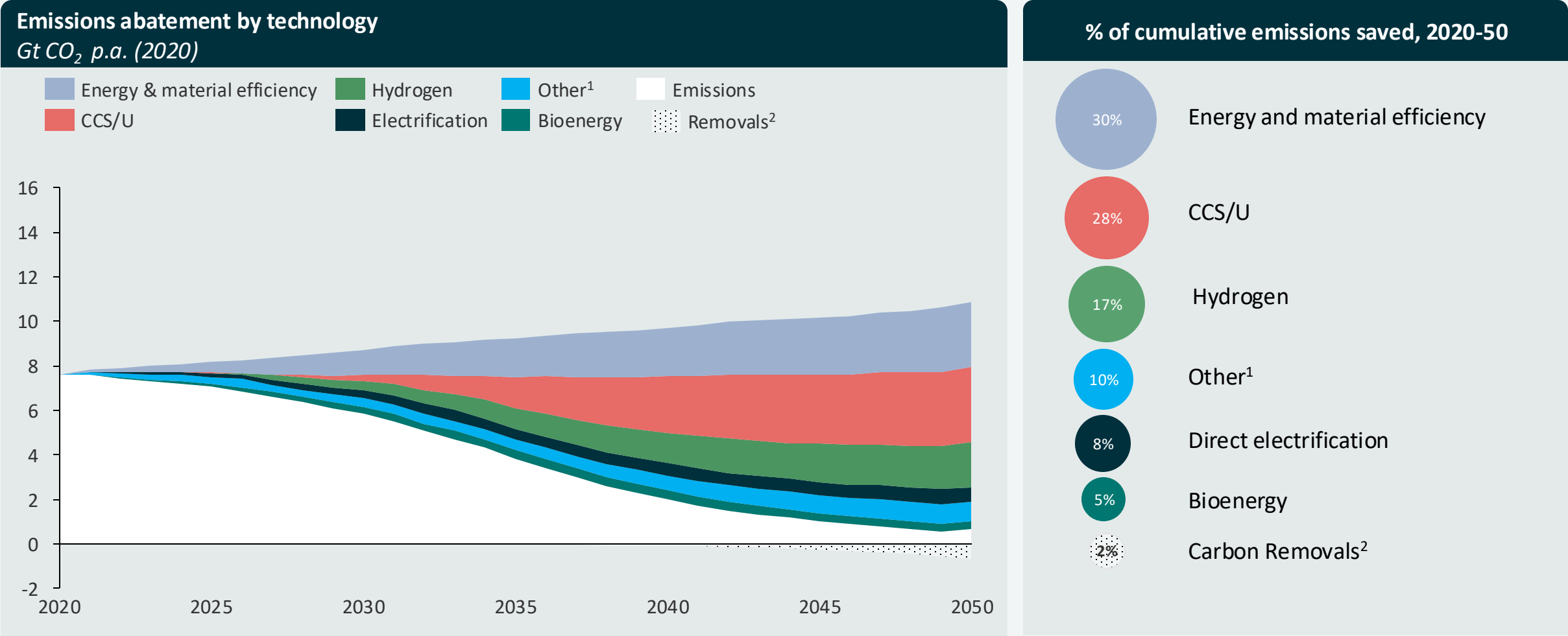
Scope 1 & 2 emissions by sector on 1.5 °C aligned path to Net Zero
Gt CO₂ p.a.



2020 sectoral shares of GHG emissions
% of energy and process related GHG emissions

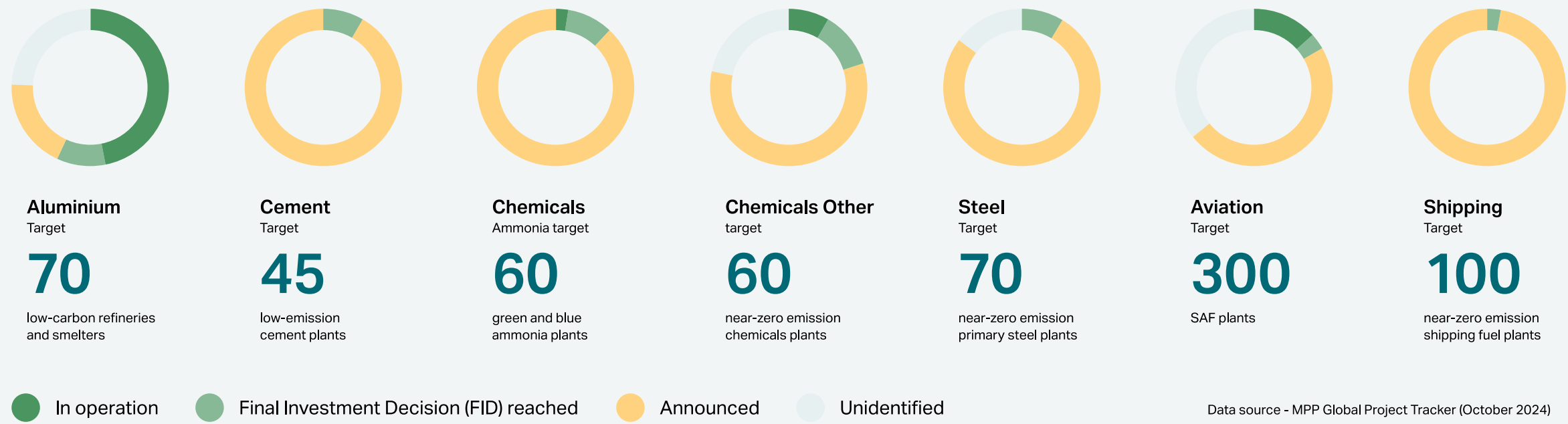


There is no silver bullet: a range of technologies are necessary, including deep decarbonisation technologies



Notes: 1) “Other” includes transitional technologies, fuel switching and sector specific technologies (e.g. inert anodes in aluminium) 2) Carbon dioxide removals are used in roadmaps to reach net zero by 2050, i.e. counter-balancing residual emissions in 2050. In the figure shown, a potential ramp-up of these carbon dioxide removals are included.
Source: MPP analysis

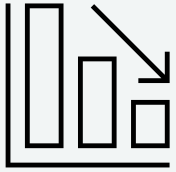
The pipeline of announced projects is nearly aligned with a 1.5C pathway – but they are taking too long to progress to FID



Data source - MPP Global Project Tracker (October 2024)

Critical Actions Are Needed To Overcome 5 Key Challenges

5 Key Challenges



Bridge green premium



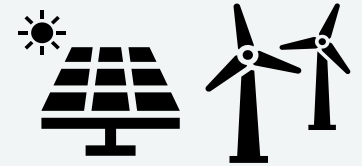
Support technology deployment



Create early demand & new markets



Roll-out enabling infrastructure



De-risk project financing

Critical actions for policymakers

- Make abated technologies more competitive by applying **carbon pricing & incentives**
- **Leverage cross-sector synergies**

- Prioritise and **fast track critical technologies** for each industry
- Provide **support for early technology demonstration and upscaling**

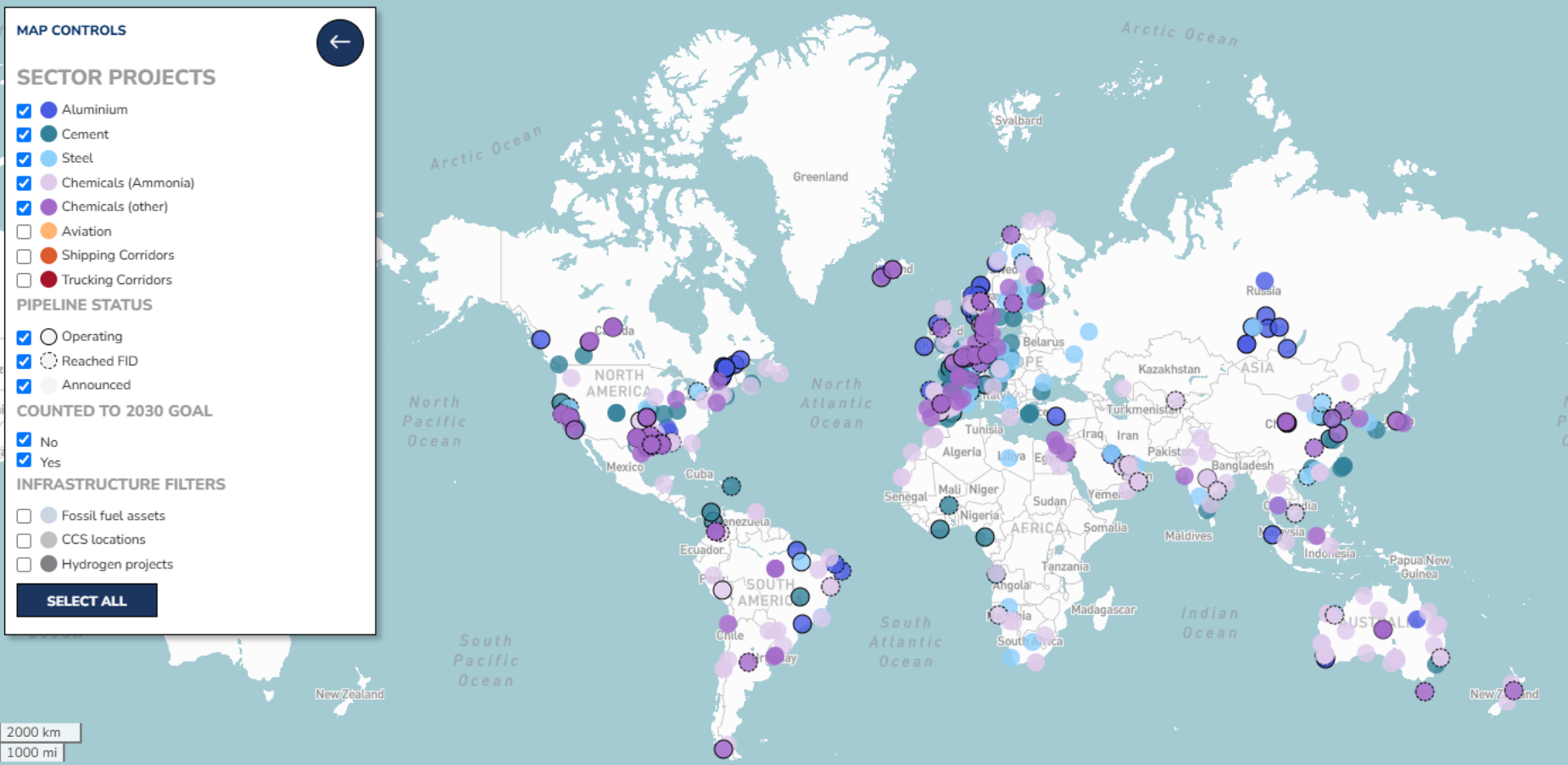
- **Seed markets** by setting near-term targets and enabling green commodity market formation
- **Leverage public procurement & set up mandates**

- Create **regulatory foresight** into infrastructure and CCS/H₂ storage development
- **Improve waste management infrastructure**

- **Accelerate power grid build-out** and improve power market design
- **Innovate financing mechanisms**, especially in emerging economies

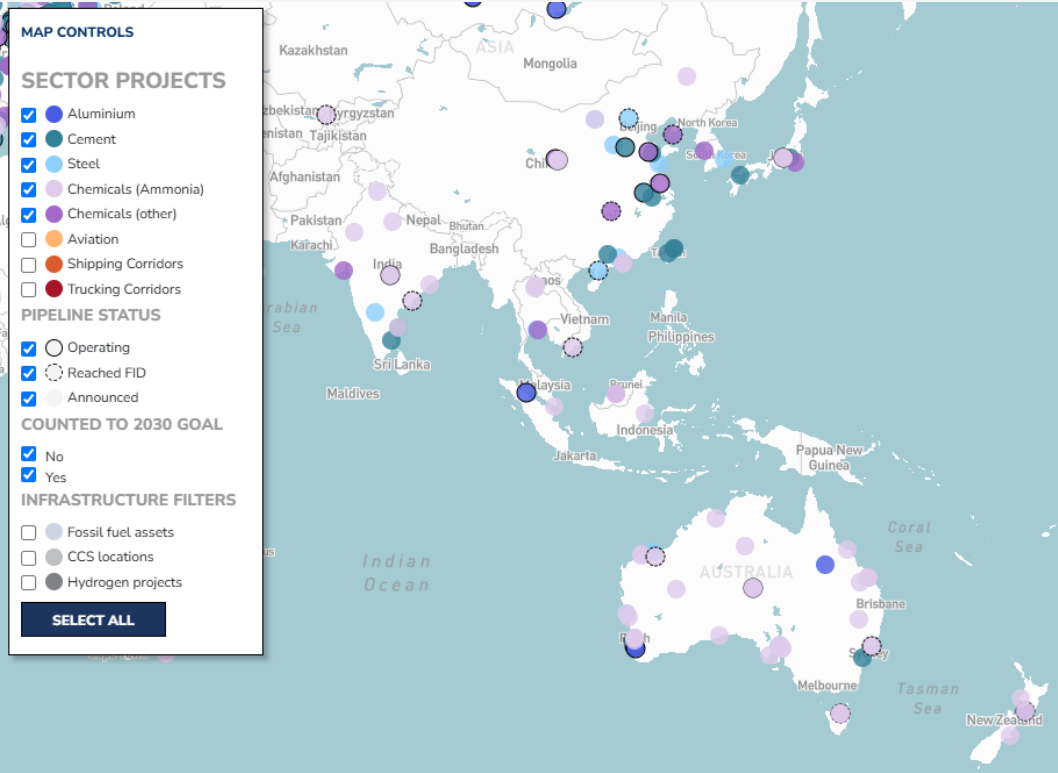
80% of the 700 projects needed for us to be 1.5C-aligned have yet to reach FID, indicating huge investment and decarbonisation opportunities

Snapshot of MPP Global Tracker Data (Nov 2024)

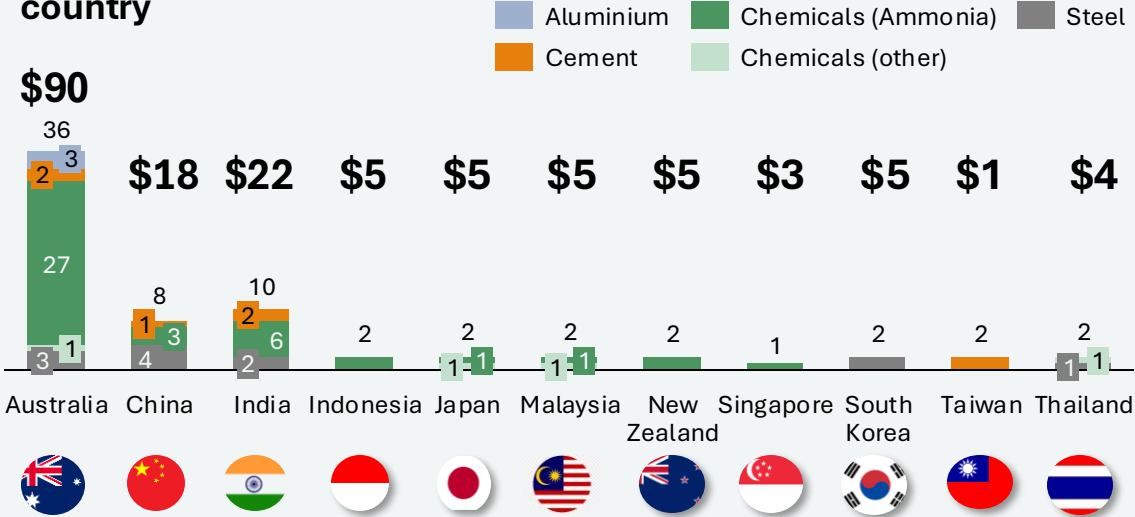


In these sectors, APAC has 69 commercial scale deep decarbonisation projects in the pipeline, representing a \$164B investment opportunity

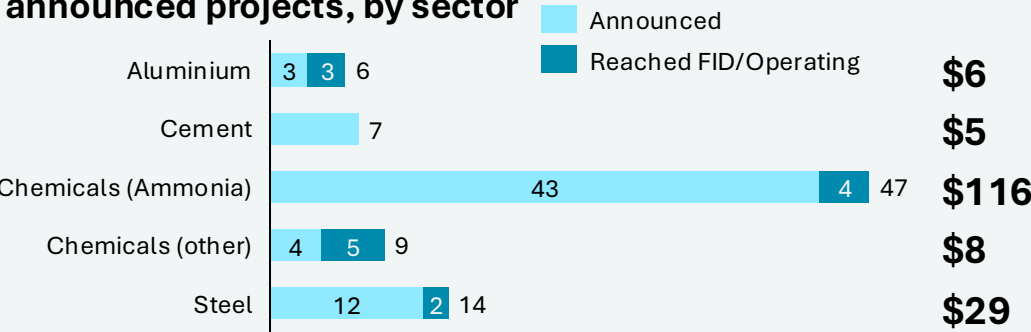
APAC MPP Global Tracker Data (Nov 2024)



of announced projects and est. capital investment (\$B) needed¹ by country



of projects and est. capital investment (\$B) needed¹ for announced projects, by sector

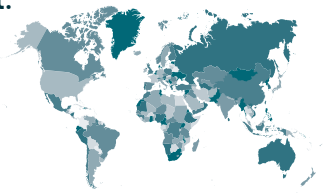


1: Investment needed was estimated by multiplying the number of plants by the average investment needed for a commercial plant; numbers are rounded to the nearest billion, so total may not sum to \$164B
Source: MPP Global Tracker, MPP analysis – based on publicly announced projects only

Key ITA / MPP resources

Pillar 1: Project support programmes

Announced country partnerships with **Brazil, UAE, Bahrain and Egypt.**

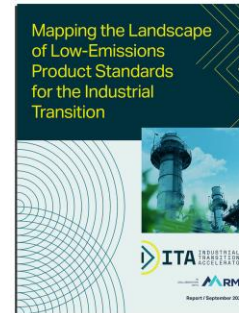


Global Project Tracker Insights

Updated in November 2024, it monitors progress and explores the actions needed to accelerate the decarbonization of seven heavy industry and transport sectors

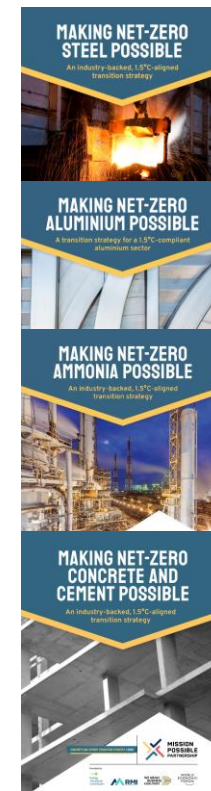


Low-Emissions Product Standards Map



Launched at NYCW 2024 in partnership with RMI, it maps the current state of the global standards landscape for low-emission industrial products.

Sector Transition Strategies



MPP's sector transition strategies set out technological pathways necessary to reach net zero on a 1.5C pathway.

Each strategy sets out the underpinning technologies, as well as actions from industry, policymakers and finance necessary.

The STS are endorsed by more than 200 leading industrial companies.

Green Purchase Toolkit

Launched at COP29 in partnership with WBCSD & Deloitte, it brings together the tools and instruments that facilitate and de-risk the purchase of green products for buyers.



Green Demand Policy Playbook



Launched at COP29, the ITA policy playbook on demand stimulation highlights most critical levers by sector

Policy Open Letter



Signed by over 50 including alliances / associations representing over 1000 firms calling on policymakers to adopt policies to stimulate green demand