



UNLOCKING INVESTMENTS FOR STEEL DECARBONISATION

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The case of Emerging Markets & Developing Economies



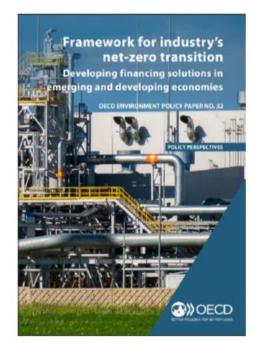
OECD programme funded by Australia, Canada, Denmark, Egypt, Germany

- to help accelerate clean energy **finance & investment** by strengthening domestic enabling conditions
- renewable electricity, energy efficiency in buildings industry decarbonisation





OECD Framework for Industry's Net-Zero Transition



- Country-driven process
- Focus on specific industry subsector or crosscutting technology
- A **collaborative** stakeholders' engagement with policy makers, industry, finance institutions & international partners.
- Implementation in various countries & sectors:
 - Steel and Textile in Indonesia
 - Steel in South Africa
 - Hydrogen use in industry sector in Egypt
 - Petrochemicals & plastics in Thailand
- Provide tailored **recommendations** to improve the enabling market conditions
- Identify relevant financing instruments



The iron & steel sector represents nearly



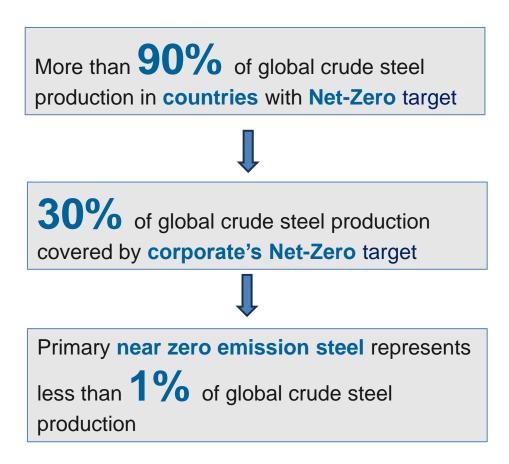


of global CO₂ emissions from the energy sector

- Massive investments are needed to put industry on a net-zero pathway
- Need to mobilise **all sources of finance**: international, domestic, public and private
- Majority of investments are set to take place in emerging markets and developing economies (EMDEs)

Increasing & channelling investments flows: A Double Imperative

Steel decarbonisation face **implementation** challenges ...



... with expanding capacity still highly relying on **emission intensive routes**

EMDEs face an increasing risk of stranded assets Growing capacity EMDEs in Asia concentrate the vast majority of new emission intensive projects Projected steel capacity increases 2024-26, by technology Millon metric tonnes (mmt) Basic oxygen furnaces Electric arc furnaces Others/Unknown

Restricted Use - À usage restreint

Africa

Asia

CIS

Europe

Latin America

Fast

North

America

Oceania



Multiple challenges increase the risk profile of low-emission steel projects, even more pronounced for EMDEs*



Technology

Low maturity / Scale-up breakthrough techno.



Broader systemic challenges

Low-carbon infrastructure/ Policy framework ...

Further barriers for EMDEs*, e.g:

- Regulatory & policy uncertainty
- Access to innovative techno.
- Access to finance
- Cost of capital
- Lack of low-carbon
 infrastructure

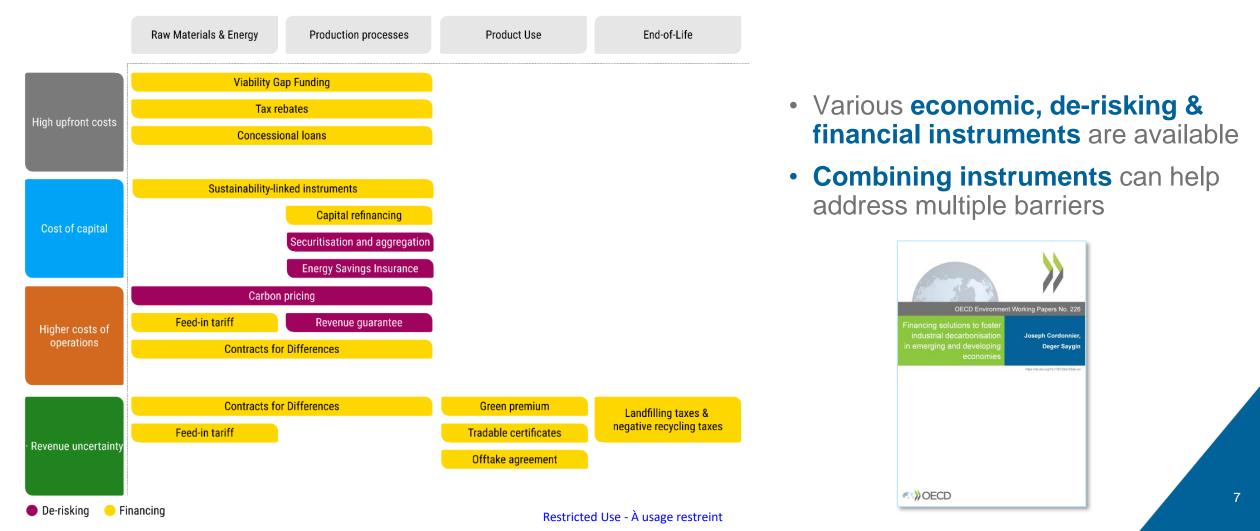




Market Offtake risk/ Lack of definition of 'green' products

Tailoring de-risking and financing instruments

Addressing barriers to attract financing can build on a wide range of instruments





Financing instruments characteristics

Enabling conditions

Replicability & scale-up

Governance and implementation

• Multiple uses of derisking instruments to optimise the leverage of public resources

• Direct public support for targeted or timebound uses. Capacity-building

to improve institutional readiness and maturity of the domestic industry

 Importance of sustainability taxonomies • Innovative financial instruments (carbon contract for difference) at very early stage

 Importance of project pipelines

- Multi-stakeholder approach
- Knowledge-sharing & matchmaking platforms for better and rapid implementation

Financial & technical assistance for EMDEs



for industry decarbonisation in emerging markets and developing economies: Taking stock of trends for hard to-abate sectors



Assessing the state of play & progress in financial & technical assistance for industry decarbonisation in EMDEs

Provide insights at various levels: sectoral, country, financial instrument, technology, project

IN ORDER TO ...



Identify key trends & areas for action



Support international cooperation by informing global matchmaking for industry decarbonisation projects in EMDEs: Which programs & funds available? Assistance for steel decarbonisation in EMDEs has not received the necessary attention so far ...

While representing 8% of global CO2 emissions, the **steel sector** has received **limited support** from mitigation related **public bilateral & multilateral development finance**

Around **0.6** billion USD

 of [2000-2021] mitigation related public bilateral & multilateral development finance Representing (on the same period)

<< 1 % of the total recorded

mitigation related development finance



development finance flows targeting the steel sector



Public Bilateral & Multilateral flows characteristics

Almost all support from 1 provider (EBRD)



Almost all directed to Ukraine & Türkiye

Debt instruments

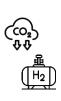
Recipient projects mostly focused on



Energy efficiency, waste management, circularity

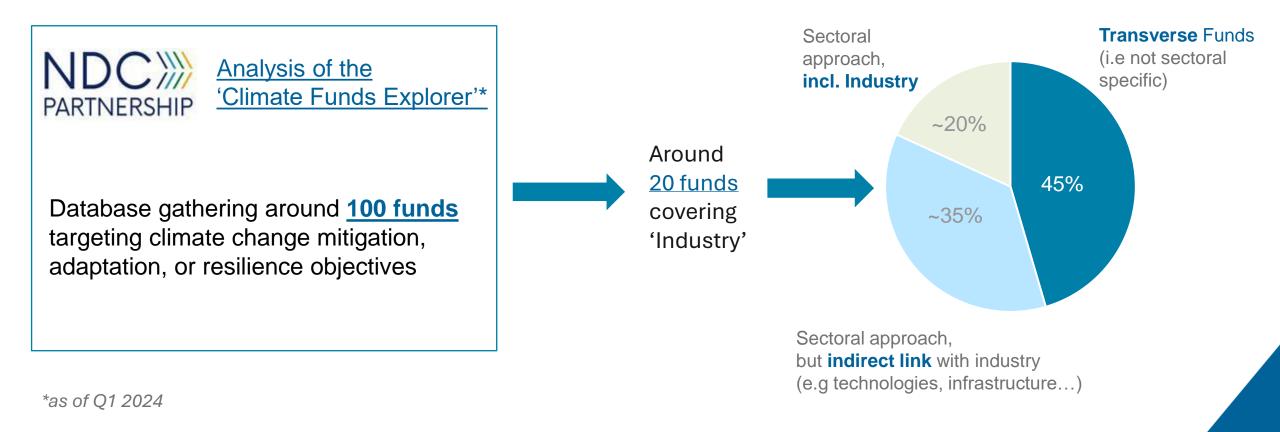


Research, capacity building



For most IFIs, industry decarbonisation projects based on breakthrough technologies are a nascent space Various funds & programmes cover the industry sector, but not necessarily in a targeted way

Most of existing climate funds are transverse or not dedicated to industry

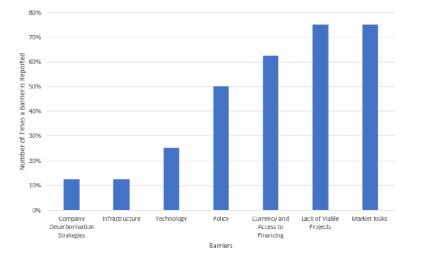


There is a growing interest in developing specific funds & programs towards industry decarbonisation

Key findings from interviews with IFIs & funds









- Emerging programmes supporting deep industry decarbonisation projects
- Lack of project pipeline & market risks appear as the most critical barriers towards industry decarbonisation projects
- Blended finance, debt & concessional finance reported as
 most relevant instruments for such projects
- **De-risking** considered as a valuable tool for industry decarbonisation projects specifically through guarantees



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Include the industry sector when considering financial & TA for decarbonisation in EMDEs



Target more countries to tap into a significant emissions reduction potential



Target programmes / projects utilising disruptive low-carbon technologies



Design funds that target industry decarbonisation projects



Develop financing instruments that can address the specific challenges of industry decarbonisation



Track and monitor financial & TA for industry decarbonsiation

An opportunity to boost international cooperation & partnerships for financial & technical assistance for industry decarbonisation



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