

Materials will be available at: www.eesi.org/102225industry
Post about the briefing: #eesitalk @eesionline

How Can We Cut Industrial Emissions?

About EESI



- Nonpartisan Educational Resources for Policymakers
 - A bipartisan Congressional caucus founded EESI in 1984 to provide nonpartisan information on environmental, energy, and climate policies
- Direct Assistance for Equitable and Inclusive Financing Program

 In addition to a full portfolio of federal policy work, EESI provides direct assistance to utilities to develop "on-bill financing" programs
- Commitment to Diversity, Equity, Inclusion, and Justice

 We recognize that systemic barriers impede fair environmental, energy, and climate policies and limit the full participation of Black, Indigenous, people of color, and legacy and frontline communities in decision-making
- Sustainable Solutions
 Our mission is to advance science-based solutions for climate change, energy, and
 environmental challenges in order to achieve our vision of a sustainable, resilient, and
 equitable world

Policymaker Education





Briefings and Webcasts

Live, in-person and online public briefings, archived recordings, and written summaries

Climate Change Solutions

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Bi-weekly newsletter with everything policymakers and concerned citizens need to know, including a legislation and hearings tracker



Fact Sheets and Issue Briefs

Timely, objective coverage of environmental, clean energy, and climate change topics



Social Media (@EESIonline)

Active engagement on Bluesky, Facebook, LinkedIn, X, and YouTube









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Upcoming Briefings



How Can We Cut Industrial Emissions? Wednesday, October 22, 9:00-10:00 AM EDT

Rapid Readout: The Future of FEMA Thursday, October 30, 12:00-12:30 PM EDT

What Congress Needs to Know About COP30 November 4 – 6, 12:00-1:00 PM EST

Sign up for our *Climate Change Solutions* newsletter here: <u>eesi.org/signup</u>
Briefing RSVP here: <u>eesi.org/2025</u>climatecamps



What did you think of the briefing?

Please take 2 minutes to let us know at: www.eesi.org/survey

Materials will be available at: www.eesi.org/102225industry

Post about the briefing: #eesitalk @eesionline

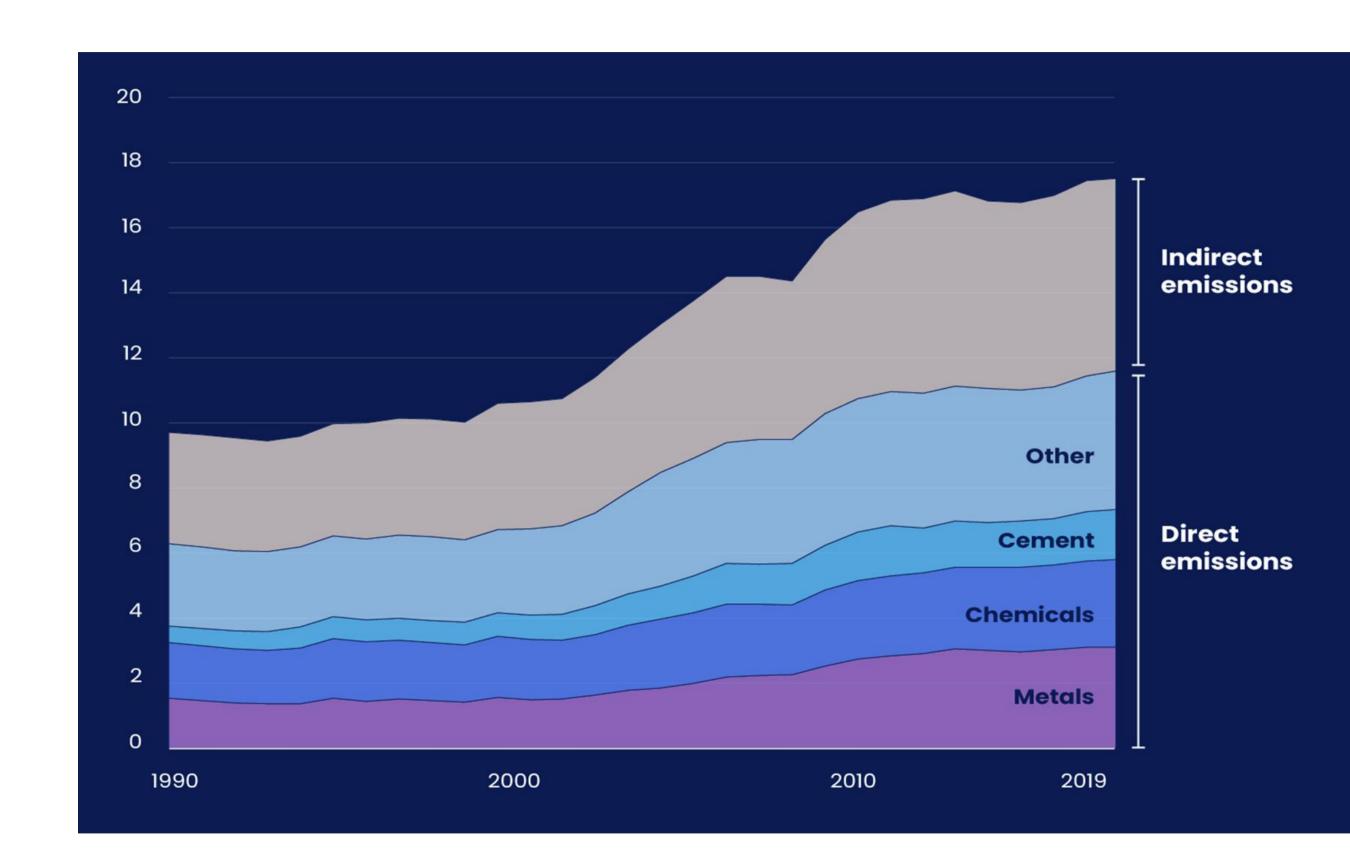




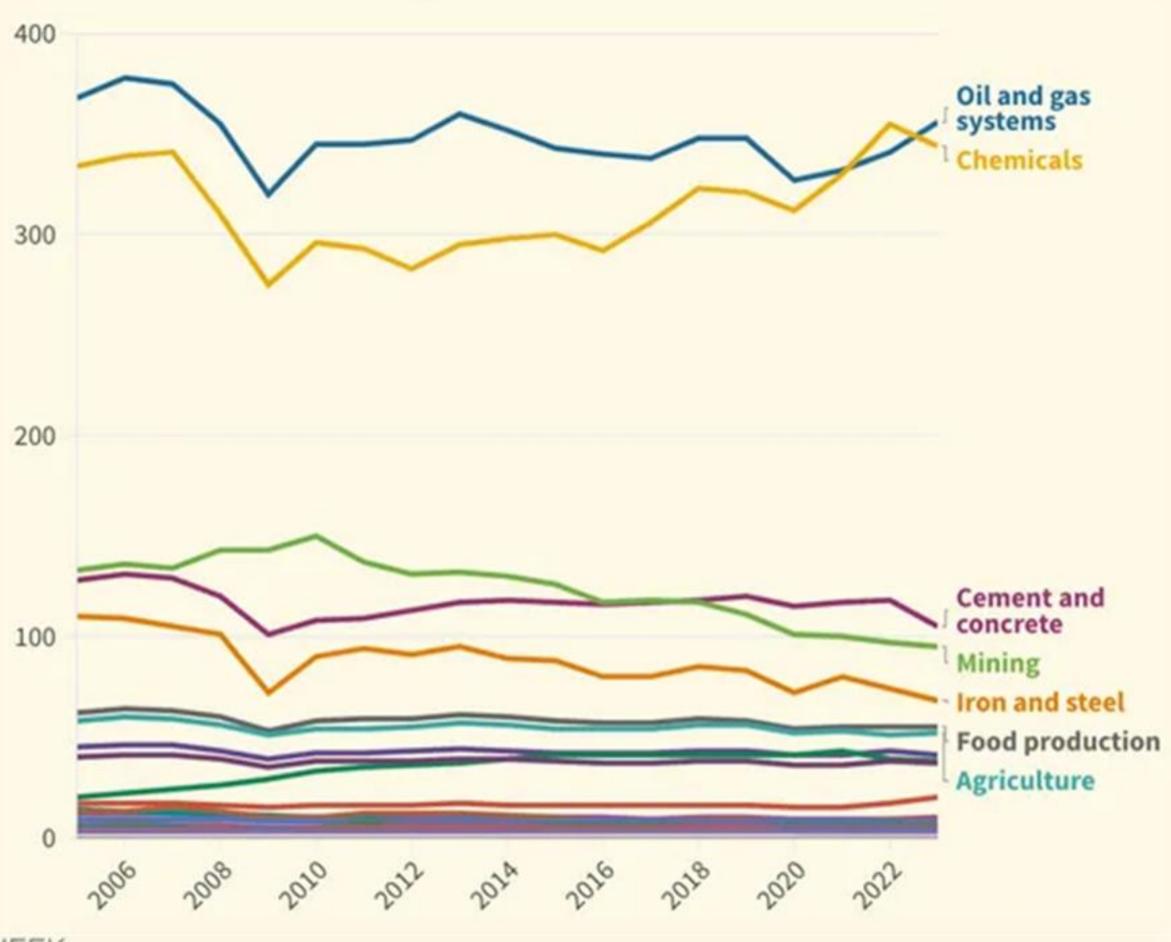
Global Emissions from Industry

Industrial activities, including mining, manufacturing, construction and waste processing, accounted for 21% of direct global emissions in 2019.

When indirect emissions from power and heat generation are included, the number **rises to 34%**.

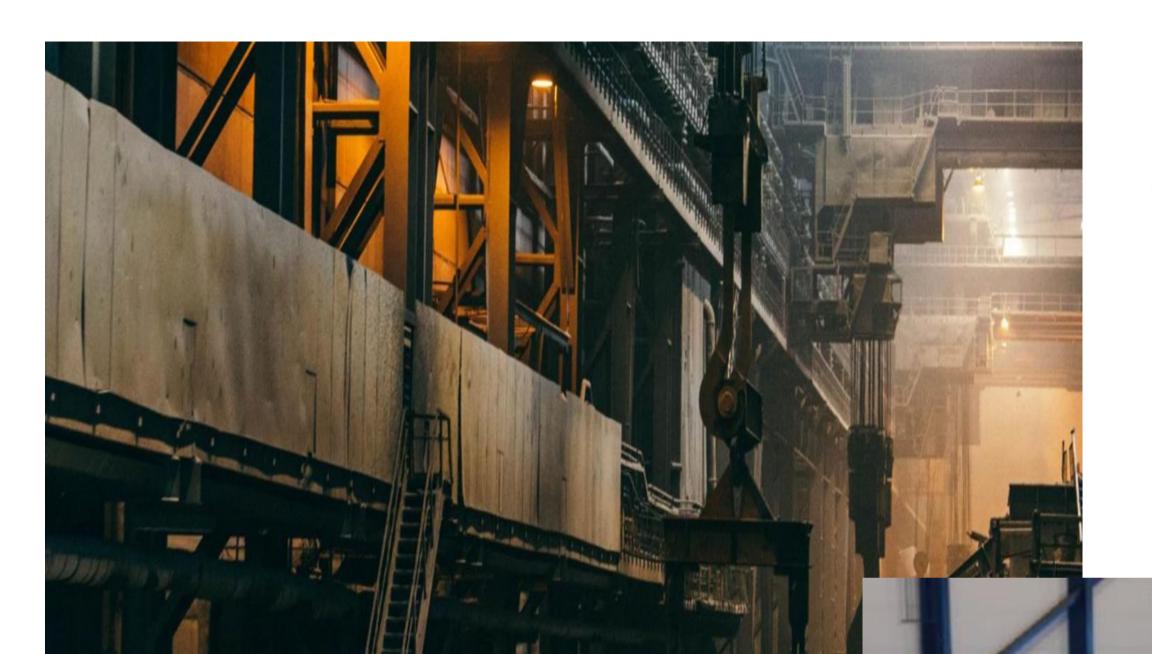


Direct industrial emissions by subsector in the U.S.



CANARY MEDIA | CHART OF THE WEEK

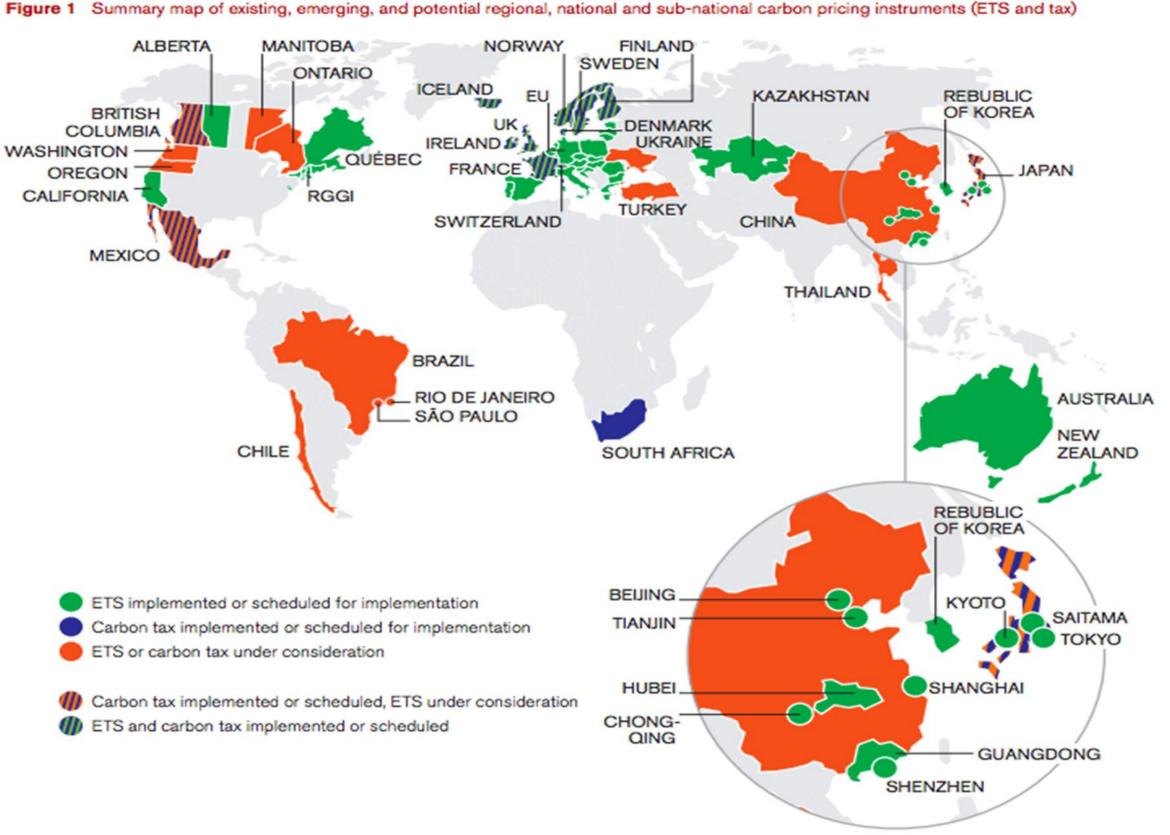
₩ WORLD RESOURCES INSTITUTI



Cleaner Industry is Feasible, Beneficial & Globally Competitive

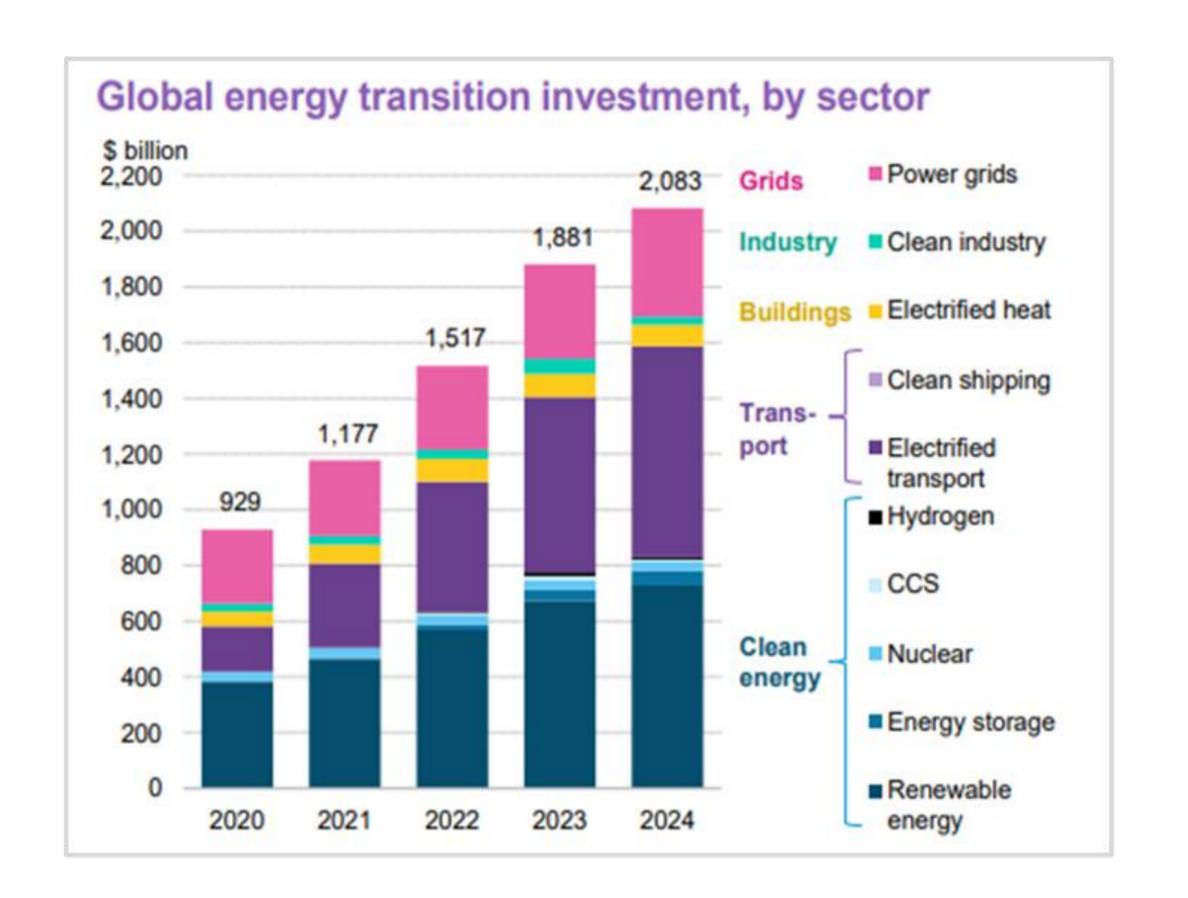






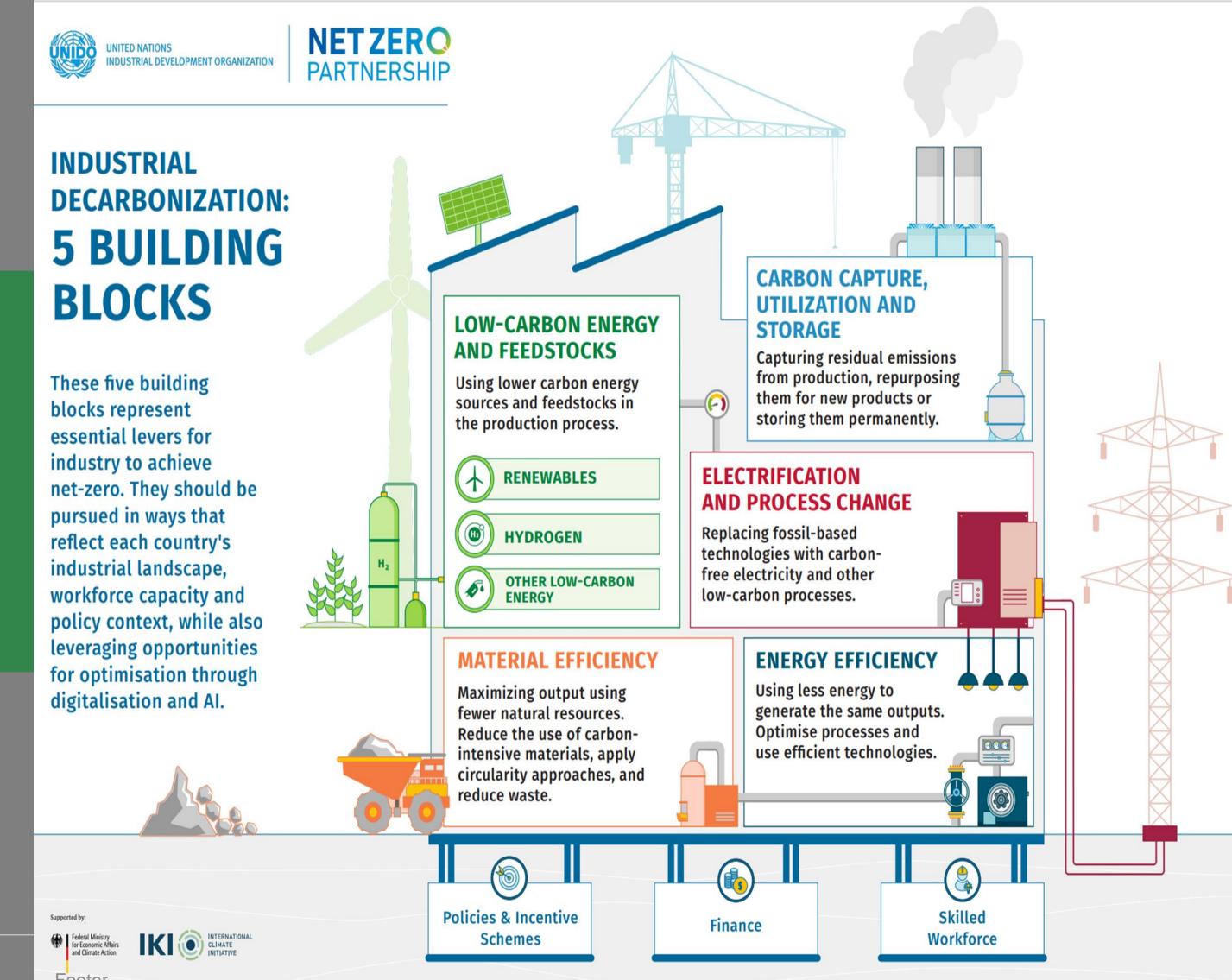
Global Trends Driving Decarbonization







Technologies are Within Reach



Policy Tools for Industrial Decarbonization







Public Policy Can Accelerate Progress



Thank You.

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EESI: State of the Market in Industrial Emissions

Kate Scott Pavao

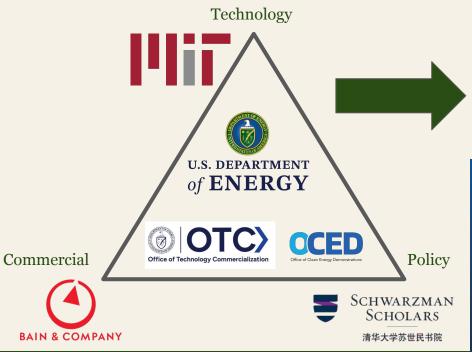
KLSP Consulting, LLC.

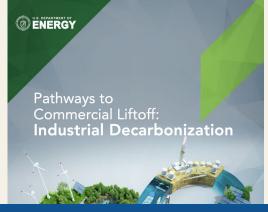
10/22/2025



Introduction: My passion is moving technology

from lab to market

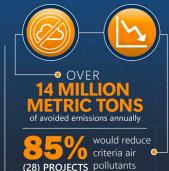




INDUSTRIAL DEMONSTRATIONS PROGRAM SELECTION SNAPSHOT



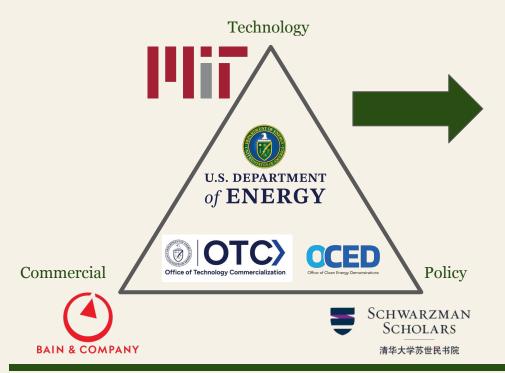








Introduction: My passion is moving technology from lab to market



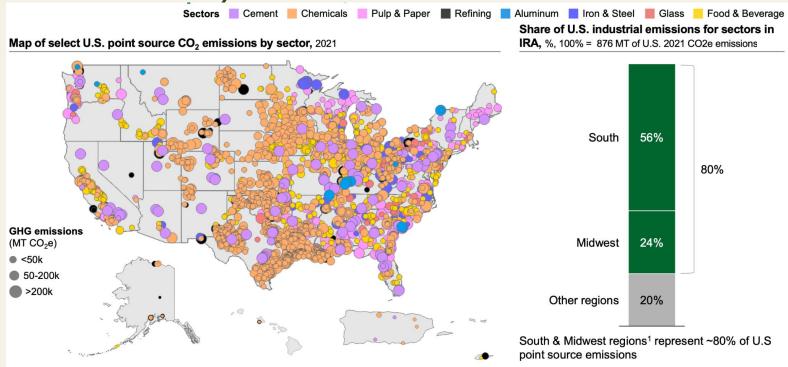


Kickstarting Liftoff in Science and Policy

Working with universities, VCs, and hyperscalers across the energy ecosystem to commercialize technology



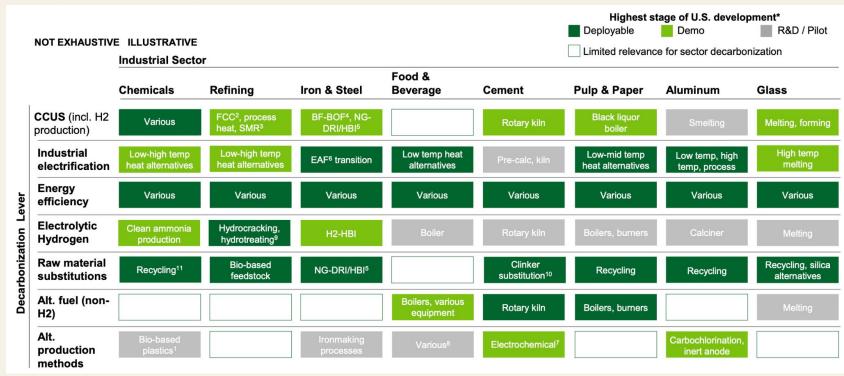
There are 2,500+ industrial facilities (and communities) across the United States





Note: Only facilities with over 25,000 tons per year of CO2e are tracked in EPA data Source: <u>DOE Commercial Liftoff Report: Industrial Decarbonization</u>; EPA Flight

Technologies exist in every sector and technology area ready to be deployed in U.S. facilities





Source: DOE Industrial Technology Office, DOE Commercial Liftoff Report: Industrial Decarbonization

Adoption Readiness must improve to unlock industrial technology investment



Value Proposition: High delivered cost; High complexity to adopt



Resource Maturity: Lack of enabling infrastructure; Capital flow challenges



Market Acceptance: Emerging demand maturity



License to Operate: Community perception



Technology Readiness: Limited high-TRL technologies



Note: Categories from DOE OTC's Adoption Readiness Levels

Source: DOE Commercial Liftoff Report: Industrial Decarbonization; OTC ARL

Status of DOE Industrial Demonstration Projects

Sector	Project count (2024)	Project count (today)
Chemicals & Refining	7	2
Iron & Steel	6	2
Food & Beverage	3	0
Cement	6	1
Pulp & Paper	1	0
Aluminum & Metals	5	5
Glass	3	0
Heat	2	0
Total	33	10

Ongoing Project Sponsors















Constellium





Cancelled Project States

TX, LA, OH, KY, MA, IL, VT, MO, MN, IN, NY, TN, MI, NC, CA, AZ



Note: Additional industrial projects were funded by the Office of Manufacturing and Energy Supply Chains (40209, 48C). These projects are also impacted by the reduced market tailwinds and planned project terminations.

As government steps back, partnerships with hyperscalers, non-profits, and industry continue

RM

09.19.25

Sustainable Concrete Buyers Alliance Launches to Accelerate Adoption of Low-Carbon Building and Infrastructure Materials

New RMI and Center for Green Market Activation initiative will enable Amazon, Prologis, Meta, and other leading organizations to participate in a first-of-itskind joint purchase of sustainable concrete attribute certificates, driving investment into cutting-edge production facilities, low-carbon cement blends, and emerging technologies.

GreenieRE Coalition & Trellis Climate launch Vensurety for climate companies







April 16, 2025

Apple unveils environmental progress, surpassing 60 percent reduction in global greenhouse gas emissions

Ahead of Earth Day, Apple hits new milestones in emissions reductions, clean energy, and recycled materials

Customers are invited to recycle devices in-store with a special offer through May 16

MARKET ACTIVATION **PRO**LOGIS Meta Meta amazon

GREEN

Microsoft Buys Over 600,000 Tons of Green Cement to Help Build Sustainable Materials Market



ESG Today Writing Staff

May 28, 2025



Microsoft



Thank you!

Find out more at klsp-consulting.com



Appendix: Status of DOE Industrial Demonstration Projects (1/2)

Sector	Project count (2024)	Project count (today)	Cancelled projects	Ongoing projects
Chemicals & Refining	7	2	Advanced recycling in TX, Flexible fuel burners in TX, e-Methanol production in TX, Innovative ethylene production in TX/LA	Dow Chemical CCUS on Gulf Coast BASF recycled syngas production in TX
Iron & Steel	6	2	Natural gas based direct iron reduction in OH, iron induction melting in AL, Hydrogen reduction in LA	Cleveland Cliffs steel induction melting in PA Vale Iron Ore Briquettes in LA
Food & Beverage	3	0	Onsite power and heat pumps in KY, OH, IL, VT, MO, MN, IN, NY, TN, MI	
Cement	6	1	Innovative cement production in MA & NC/CA, CCS in CA & IN,	Titan America calcined clay in VA



Note: Additional industrial projects were funded by the Office of Manufacturing and Energy Supply Chains (40209, 48C). These projects are also impacted by the reduced market tailwinds and planned project terminations.

Appendix: Status of DOE Industrial Demonstration Projects (2/2)

Sector	Project count (2024)	Project count (today)	Cancelled projects	Ongoing projects
Pulp & Paper	1	О	Innovative membrane separations in LA	
Aluminum & Metals	5	5		Wieland Copper recycling Real Alloy aluminum recycling Century Aluminum Primary aluminum Constellium hydrogen melting Golden Aluminum electric melting
Glass	3	0	Flexible fuel burners in CA	
Heat	2	0	Waste heat systems in NY, Microgrid system in AZ	
Total	33	10		



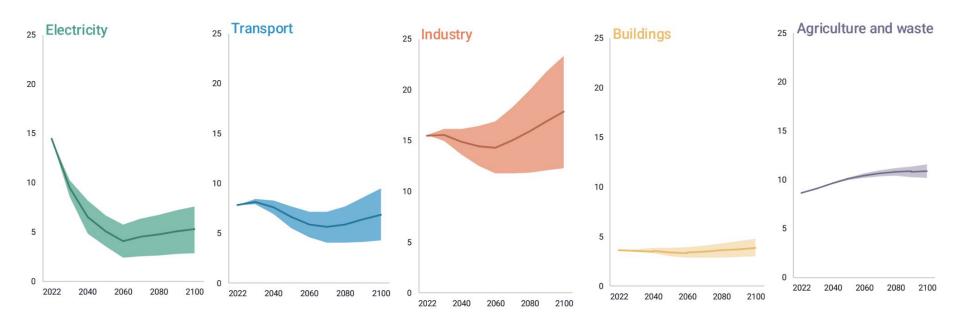
Note: Additional industrial projects were funded by the Office of Manufacturing and Energy Supply Chains (40209, 48C). These projects are also impacted by the reduced market tailwinds and planned project terminations.

How Can We Cut Industrial Emissions?

EESI Briefing - October 22, 2025

Abigail Regitsky, Blue Horizons Foundation

Abundant, affordable, and clean industrial goods are essential to everyday life and global infrastructure development



Rhodium Group global GHG emissions projections under current policy and technology trends by sector, likely range (67%), in million metric tons CO2e

Source: Rhodium Group Climate Outlook 2024

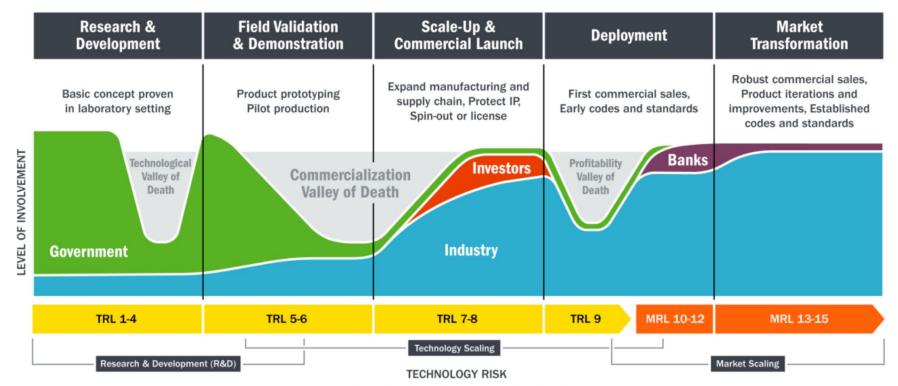
Companies producing industrial goods need to see the business case for investing in clean industrial technologies

Potential levers for encouraging investments:

- → Incentivize supply
- → Create demand
- → Regulate

Ideally, governments and civil society will pull the levers that align with profit motives and enhance abundance and affordability.

Public policy has an important role for industrial innovation, commercialization, and deployment



TRL = Technology Readiness Level

MRL = Market Readiness Level

Philanthropy has a role to play but cannot replace an effective federal government











Thank you!

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