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Advancing Clean Technology Manufacturing

An Energy Technology Perspectives Special Report

Technology report — 06 May 2024

The State of Clean Technology Manufacturing – November 2023 Update

An Energy Technology Perspectives Special Briefing

Report — 24 November 2023

The State of Clean Technology Manufacturing

An Energy Technology Perspectives Special Briefing

Report — 19 May 2023

Will new PV manufacturing policies in the United States, India and the European Union create global PV supply diversification?

Fuel report — 06 December 2022

Data explorers

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Global EV Policy Explorer

Key policies and measures that support the deployment of electric and zero-emission vehicles

Data explorer

Energy Sankey

Visualize the full energy system for over 150 countries and regions

Data explorer

Charts

All charts results

Current and future committed battery manufacturing capacity by technology in China, 2024

Open

Technology	Capacity (TWh)
Lithium-ion: NMC	~1.5
Lithium-ion: NCA	~0.8
Lithium-ion: LFP	~0.4
Solid state	~0.1
Sodium-ion	~0.1
Lithium-ion: other	~0.0
<b>Total</b>	<b>2.9</b>

Car manufacturing employees by region, 2010-2024

Open

Year	United States	European Union	Japan	Korea	Other AEs	China
2010	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2011	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2012	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2013	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2014	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2015	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2016	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2017	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2018	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2019	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2020	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2021	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2022	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2023	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0
2024	~1.5	~1.5	~1.5	~1.0	~1.0	~1.0

China's share in global PV manufacturing capacity, 2024 and 2030

Open

Stage	2024	2030
Installations	~60	~60
Modules	~75	~75
Cells	~85	~85
Wafers	~95	~90
Polysilicon	~85	~85

Electrolyser manufacturing capacity and deployment by region, 2024-2030

Open

Category	Region	2024	2030
Cumulative deployment	China	~50	~50
	Europe	~25	~25
	United States	~10	~10
	Rest of world	~15	~15
Manufacturing capacity	China	~50	~50
	Europe	~25	~25
	United States	~10	~10
	Rest of world	~15	~15
Project pipeline	China	~50	~50
	Europe	~25	~25
	United States	~10	~10
	Rest of world	~15	~15
Manufacturing capacity	China	~50	~50
	Europe	~25	~25
	United States	~10	~10
	Rest of world	~15	~15

Policies

All policies results

Policy	Country	↑ Year	Status	Jurisdiction
Modern Manufacturing Initiative: Green Hydrogen Gigafactory Electrolyser Manufacturing Facility	Australia	2022	In force	National
Subsidy manufacturing industry climate-neutral economy (IMKE)Subsidy manufacturing industry climate-neutral economy (IMKE)	Netherlands	2024	In force	National
Advanced manufacturing	United Kingdom	2024	In force	National
Clean tech manufacturing	Italy	2024	Announced	National

News

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News

IEA convenes experts on energy technology manufacturing and trade to assess competitiveness drivers ahead of new report

10 September 2024

07 October 2025

News

IEA convenes experts to discuss clean energy technology manufacturing and trade ahead of major report

10 September 2024

Manufacturing

Surging investment in manufacturing of clean energy technologies is supporting economic growth

06 May 2024

clean energy technologies

Latest update on clean energy technology manufacturing shows a mixed outlook for key technologies

24 November 2023

Events

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26 Nov 2024 12:00–13:15

Clean Technology Manufacturing and Trade Webinar

Webinar

3 Dec 2024 12:30–13:45

Unlocking Manufacturing Opportunities in Emerging Markets Webinar

Webinar

16 Nov 2024 08:30–12:00

Possible Futures for Clean Technology Manufacturing and Trade in Emerging Economies

Event — Baku, Azerbaijan

WATCH

6 May 2024

Advancing Clean Technology Manufacturing

Report launch

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