

# Building a Resilient Supply Chain

## Can Japan and India Partner on Critical Minerals for the EV Ecosystem?

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### WEBINAR

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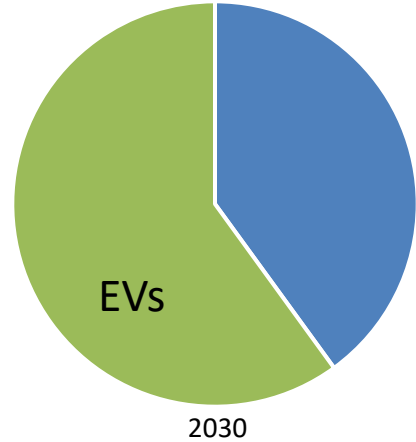


More than 60% of passenger car sales must be EVs by 2030 for the world to be on track to net-zero greenhouse gas emissions by 2050.

EVs and battery storage account for about half of the mineral demand growth from clean energy technologies over the next two decades.

By weight, mineral demand in 2040 is dominated by **graphite, copper and nickel**. **Lithium** sees the fastest growth rate.

- [International Energy Agency](#)



That is 18 times more EV sales than in 2020.

## Reshaping global supply chains



The rise of trade tensions is making it more difficult and expensive to move goods and services across borders



Geopolitical instability, such as the ongoing conflict in Ukraine disrupts supply chains and making it more difficult to access raw materials and finished goods



Changing consumer choice is demanding sustainable products and services, putting pressure on businesses to source raw materials sustainably and responsibly



These changes demand coordinated efforts by countries and businesses.

# How can Japan and India jointly help shape a sustainable critical mineral supply?



Issues	Approaches
<b>Overseas dependency and Geopolitical Risks</b>	
Overseas dependency, geopolitics, price rise	By investing in domestic mining and processing capacity, Japan and India can reduce their reliance on imports of critical minerals.
<b>Supply disruptions</b>	
Vulnerable supply chains	Japan and India can work together to develop alternative sources of supply for critical minerals, such as recycling and re-use.
<b>Environmental Concerns</b>	
Environmental and Social Spillovers	Promote responsible sourcing of critical minerals by developing and implementing standards for sustainable mining and processing.



# How can G20 help address the supply chain challenges?



G7 2023  
HIROSHIMA  
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Infrastructure

Investing in infrastructure, especially for critical minerals, can help to secure supplies more efficient and resilient



Trade partnerships

Promoting trade partnerships can help to reduce barriers to trade and make it easier to move goods and services



Alternative sources

Innovation for alternative sources waste processing can help reduce demand

# Thank you

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**Reference:** Janardhanan, N., Moinuddin, M., Olsen, S.H., Murun, T., Kojima, S., Takemoto, A., Korwatanasakul, U., Okitasari, M., Goel, S., Moerenhout, T., Narula, K., and Sedoui, R. 2023. [Critical Minerals for Net-Zero Transition: How the G7 Can Address Supply Chain Challenges and Socioenvironmental Spillovers](#).

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