

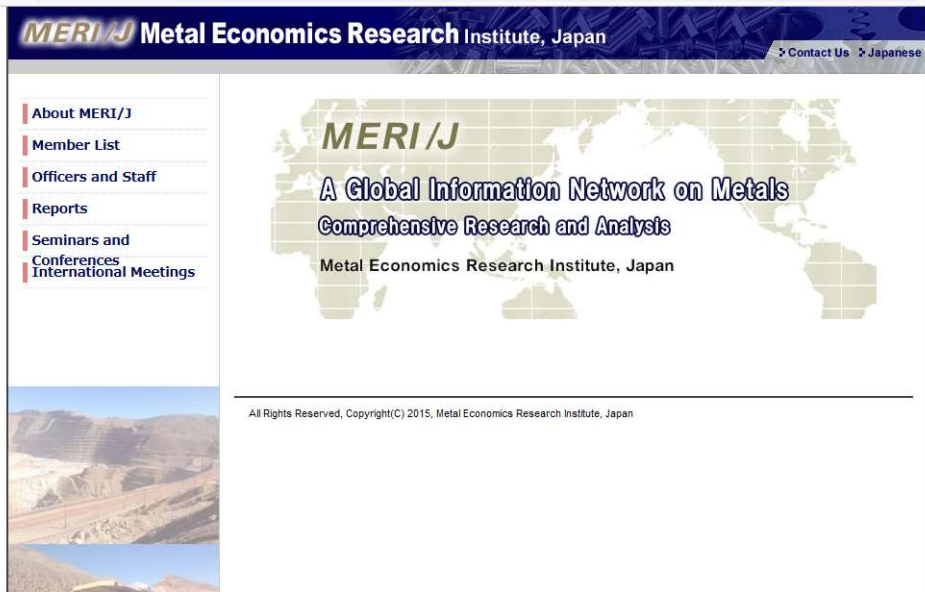
Japanese Challenges to Green Energy in the Metals Sector

October 19th, 2022

Hajime Myoi
Metal Economics Research Institute, Japan

Personal Background

- Hajime Myoi, 名井 肇 Born 1955 in Tokyo
- 1978-2005 Ministry of Economy Trade & Industry, GOJ
1984-1986 The University of California, Berkeley
Energy & Resources Group
1989 Japanese Delegation for the establishing process of ICSG
1992-1994 Trade Attaché in London
- 2005-2022 Mitsui Mining & Smelting Co. Ltd
2006-2008 Industry Advisor for ILZSG
- 2022- President, Metal Economics Research Institute, Japan



- Non-profit research organization established in 1989
- Membership
 - 13 full members: Smelters, Fabricators & Industry Associations
 - 21 associate members: Trading firms, Car makers, etc.
- Current key issues
 - GHG control, Critical minerals, Responsible sourcing, EV & Batteries, Recycling
- <http://www.merij.or.jp/english/index.htm>

Carbon Neutrality Goal

MERI/J



Declared April 2021

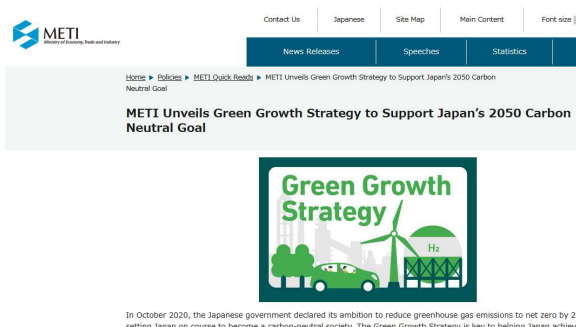
Reduce its greenhouse gas emissions by 46% in fiscal year 2030 from its fiscal year 2013 levels

The long-term goal of net-zero by 2050

4

Green Growth Strategy to 2050

MERI/J



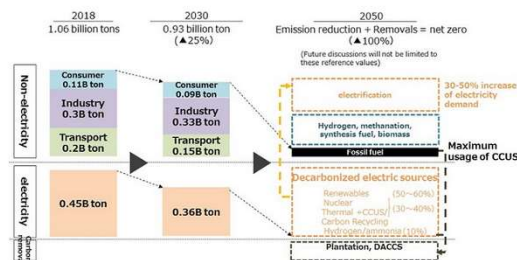
METI's Green Growth Strategy to Support Japan's 2050 Carbon Neutral Goal

5

The Decarbonization of Electric Power Generation

A smart decarbonized society

Full mobilization of policy tools



6

Critical Minerals

The screenshot shows the METI website page titled "Japan's new international resource strategy to secure rare metals" (in provisional translation). The page is dated 2020-07-31 and includes a brief description of the strategy. The page also features a sidebar with links to various sections: News, Statistics, Laws, Policies, and Links.

Strategic approaches to be formulated for respective mineral resources

Diversification of supply sources

The industrial base to be reinforced by promoting international cooperation toward the enhancement of supply chains

7

The Team

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JOGMEC

Japan Oil, Gas and Metals
National Corporation



New Energy and Industrial
Technology Development
Organization



Industry University Society

8

Profile of DR. Takuma Watari



<https://takuma-watari.com/en/>



Takuma Watari, PhD



- **Apr 2019-Present**
National Institute for Environmental Studies.
Tenure-track researcher (Material Cycles Division)



- **Dec 2021-Present**
Adjunct Fellow (Institute for Sustainable Future)



- **Sep 2022-Present (until Aug 2023)**
Visiting Research Fellow (Department of Engineering)



- **Oct 2019-Sep2021**
PhD student (Prof. Kenichi Nakajima and Dr. Keisuke Nansai)

Imagine by John Lennon

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Imagine all the people
Sharing all the world

You may say I'm a dreamer
But I'm not the only one
I hope someday you'll join us
And the world will live as one

10

Conclusion

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We are competing.
But not each other.
We are competing with the climate change.
The climate change is global phenomenon.
If we win, all of us win.
If we lose, all of us lose.
It is tough to win.
That why we have to get together.

And the world will live as one

11