

JOGMEC's Activities in the field of Mineral Resources in Kazakhstan

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KABASHIMA Taro
Director of Division 2 (Eurasia, Africa & Oceania Region)
Metals Exploration Department, Metals Unit
Japan Organization for Metals and Energy Security

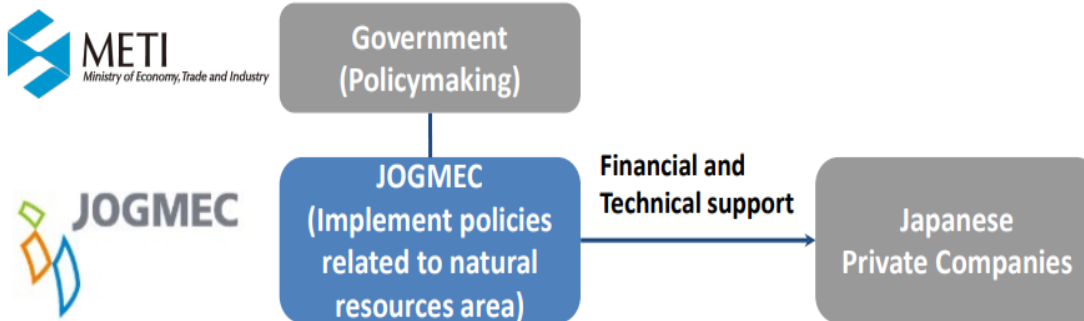
Agenda



1. Overview and Mission of JOGMEC
2. Mineral Resources of Kazakhstan and Japan
3. JOGMEC's activities in Kazakhstan
4. Cooperation between Kazakhstan and JOGMEC
5. Three new measures by JOGMEC
6. Conclusion

Overview of JOGMEC

JOGMEC is a government-affiliated organization to secure a stable and economical supply of natural resources for Japan



Established	2004 Japan National Oil Corp (JNOC) and Metal Mining Agency of Japan (MMAJ) merged
Capital	1,300 Billion Yen (Mar, 2023) approx. 9.3 Billion USD
Expenditure Budget	1,696 Billion Yen (2022 FY) approx. 12.1 Billion USD
Numbers of Employees	666 (as of July 1, 2023)
Overseas Offices	13

Mission of JOGMEC

- Financial and technical support for metals/mineral resources
- Promotion of decarbonization



Oil, Gas and Coal

JOGMEC

**Japan
Organization
for
Metals and
Energy
Security**

Metal



Wind Power

- Wind condition survey
- Geological survey



Geothermal



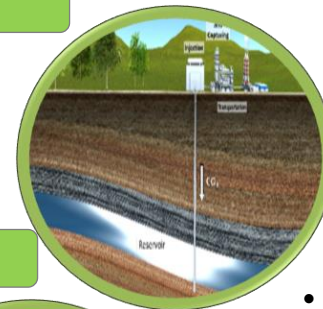
- Promoting domestic and international project of geothermal energy



CCS

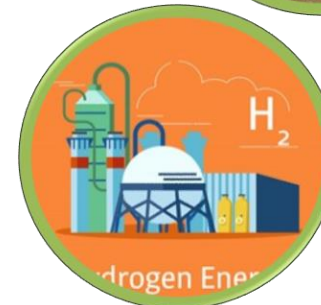
- Financial and technical support for fossil fuel development
- Promotion of decarbonization

- Stable LNG supply chain



H₂, NH₃

- Financial and technical support for CCS



- Financial support for hydrogen / ammonia project

Mineral Resources of Kazakhstan and Japan



Mine Production (2021)

Commodity	2020 (kt)	2021 (kt)	World share (%)	Ranking
Uranium	19.5	18.5	45.4	1
Copper	721.5	740.9	3.5	9
Lead	30.2	29.3	0.5	18
Zinc	335.0	334.9	2.5	8
Gold (t)	118.1	114.7	3.7	8
Platinum (t)	0.1	0.1	0.1	8
Chromium	6,326.5	6,193.2	17.5	2
Manganese	813.5	1,189.0	2.4	8
Molybdenum	0.9	1.0	0.4	11

Source) World Metal Statistics Yearbook 2022, Mineral Commodity Summaries 2022

Imports of major nonferrous metals to Japan (2021)

Commodity	2020 (kt)	2021 (kt)	World share (%)	Ranking
Ferro-chrome	227.1	289.2	42.6	1
Ferro-silico-chrome	2.5	3.4	49.6	1
Ferro-silico-manganese	16.7	21.9	26.8	1
Ferro-silicon	6.4	11.9	2.7	6
Tantalum metal (t)	13.7	12.8	25.6	1
Lead metal	-	24.5	0.1	9

Source) Trade Statistics of Japan, MOF

JOGMEC's activities in Kazakhstan



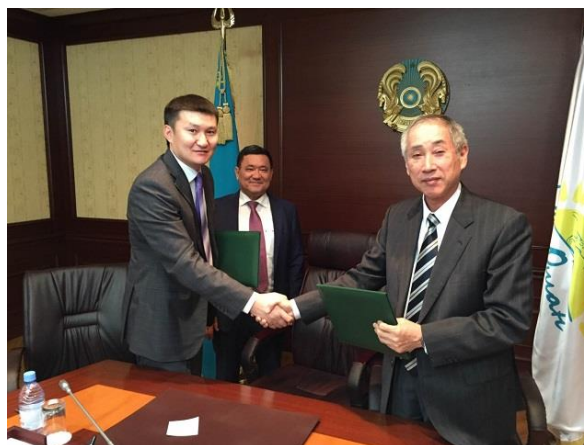
Cooperation geological survey by MMAJ/JICA

Area	Commodity	Year
Zhaman - Aibat Area	Cu, Re, Pb, Zn, Au, Ag	1994-1996 FY
Terektinsy Uplift Area	Au, Ag, Cu, Mo	1997 FY
Terektinsy Uplift Area	Au, Ag, Cu, Zn, Mo, W	1997-1999 FY
Kokpetinskaya Area	Ti	2000-2002 FY
Central Area	W	2005 FY
North and South Area	W	2006 FY

JOGMEC's activities in Kazakhstan



Cooperation in the field of Mineral Resources (Cooperative Geological survey)



- | | |
|-----------|---|
| 2007 | JOGMEC signed MOU With the Committee of Geology and Subsoil Usage |
| 2008-2010 | Cooperative geological survey in Ushukol-Mulaly area |
| 2015 | JOGMEC signed MOU With Kazgeology (geological survey for REE) |
| 2016-2017 | Cooperative geological survey in Kyzymshek area |
| 2017 | JOGMEC signed MOC With Kazgeology for the cooperation in the field of Mineral Resources |

Cooperation between Kazakhstan and JOGMEC

JOGMEC co-organized “Kazakhstan Mining Investment Seminar” in Tokyo, 2017



Mining Investment Seminar



Ministry for Investments and
Development



Kazgeology

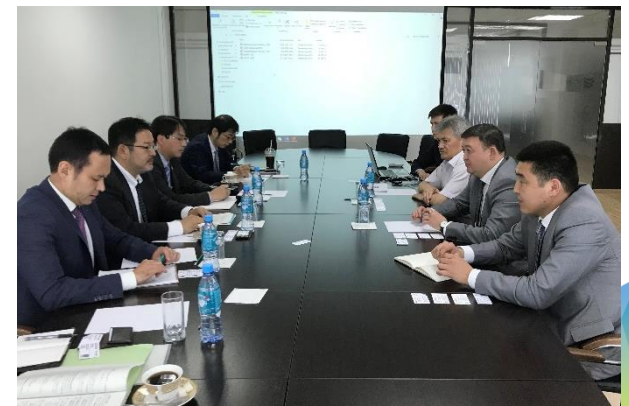
JOGMEC participated in the 25th World Mining Congress in Astana, June 2018



World Mining Congress



Ministry for Investments and
Development



Kazgeology

Three new measures by JOGMEC

To achieve the target volumes for 2030 and secure stable and resilience of supply chain, JOGMEC strengthened following three measures:

New challenges from social-environmental changes	Conventional risks for stable global supply	
Strategy for Battery Supply		
(1) Increase maximum equity capital support ratio from 50 % to 75% for specific commodities Battery Metals (Li, Ni, Co), REEs, PGMs	(2) Expand financial and tech assistance for Beneficiation and Refining Create supply chain resilience	(3) Promoting Japanese Companies investment decision by Subsidies Economic Security Promotion Act, 2022
110 billion Yen (0.74 billion USD)	105.8 billion Yen (0.72 billion USD)	

Conclusion

- 1) Kazakhstan is rich in mineral resources such as uranium, rare metals and base metals, and it is already a major mineral producing country and further resource potential is expected.
- 2) Kazakhstan is now an important supplier such as ferrochrome and ferromanganese, rare metal uranium etc. for Japan.
- 3) JOGMEC has conducted joint surveys with Kazakhstan since its predecessor MMAJ.
- 4) In recent years, we are continuing to joint surveys of rare earths, exchanging information on mineral resource projects, and holding of mining seminars and so on.
- 5) Investment and transactions by uranium resources by Japanese companies have been conducted so far and JOGMEC has supported the activities of such Japanese companies on the technical and financial side
- 6) JOGMEC intends to further strengthen its relationship with Kazakhstan to support the promotion of investment in the field of mineral resources to Kazakhstan from Japan.