Roles and Activities of JOGMEC for the Geothermal Development in Japan

Japan Oil, Gas and Metals National Corporation
Mission

Secure constant and stable supplies of oil, natural gas and mineral resources to support industries and citizens in Japan through various activities relating these resources.

Activities
Maximum target

Promote the activation of domestic geothermal development

Assignments

➢ Financial supports for the exploration and development cost
➢ Reduce exploration risk (Geological aspect)

JOGMEC implements three approaches

➢ Financial supports
  (Subsidy, Equity Capital, Finance, Liability Guarantees)
➢ Technology development
➢ Potential survey—Regional air-borne geophysical survey
Outline of Financial Assistance by JOGMEC

**Potential Survey**
- Geological Survey
- Geophysical Exploration
- Structural Boring

**Exploration**
- Drilling of Investigation Well
- Discharge Test

**EIA**
- Environmental Impact Assessment

**Development**
- Drilling of Production Well & Reinjection Well
- Construction, Start-up & Commissioning of Power Plant

**Operation**
- Commercial Operation
  Feed-in Tariff Scheme (FIT)
  Electric utilities purchase electricity generated from renewable sources

**Resource Risk**

**Financial Assistance provided by JOGMEC**

**Subsidy**
- Up to 50%~100% of necessary funds

**Equity Capital**
- Up to 50% of equity capital

**Liability Guarantees**
- Up to 80% of loan provided by financial institutions

**Research & Development** (Budget of JOGMEC: 1.0 billion yen (9.8M US$))

Japan Oil, Gas and Metals National Corporation
Currently, more than 40 exploration projects are on the road by electric companies, oil companies, mining companies, local government and other entities.

- **Subsidized projects** (57)
- **Equity Capital projects** (1)
- **Liability Guarantee projects** (4)

As of end of Mar, 2017
JOGMEC conducts heli-borne geophysical survey that aims to acquire basic data for the evaluation of geothermal resources in order to promote geothermal development start-up.
Research & Development

➢ **Artificial recharge by river water (EGS technology)**

The research and development to stabilize the geothermal production by improving evaluation accuracy of fluid flow, and optimizing artificial recharge technique.

➢ **Technology for Exploration of Geothermal Reservoirs**

Improvement of exploration accuracy will be expected by applying the seismic method to image the geothermal reservoir structure by solving these issues.

➢ **Drilling Technology**

Develop the PDC* bit cutter and body for geothermal well drilling and conduct verification test in order to reduce a drilling cost.

*PDC : Polycrystalline Diamond Compact
Thank you for your attention!