

Issues

- Vapor suppliers have low motivation to re-invest in developing geothermal plants because it is an unprofitable business that has high-risk yet low return. In Japan, 5 of 17 plants have failed in the past 45 years.
- For electric enterprises it is beneficial that it brings a stable and low cost electric source, however, it lacks in merits for developing small and distributed electric source.
- Consensus with hot spring business operators is not achieved yet.
- Special areas within National Parks where it is expected to have dominant geothermal resources are not even being researched.
- It is not attractive for private companies because the lead time for development exceeds 10 years due to processes such as environmental effects evaluation that takes a maximum of 4 years.
- It requires complicated processes based on undeveloped laws and regulations. Japan lacks of geothermal law unlike foreign countries.
- In the late 90's, Japanese government changed policies for electric power development and as a result, they stopped the development of geothermal electricity and decreased its budget significantly.
- Therefore, there has not been any new construction of geothermal electric power plants since 21st century.

Demands for Policies

1. Economic potential:

- (1) Resume national exploration and technology development to decrease risks for underground resources
- (2) Resume and expand exploration wells, subsidy for development and subsidy for electricity generation and transmission facilities
- (3) Conduct Feed in tariff(FIT) at proper price
- (4) Provide tax breaks and support for financing
- 2. Hot springs:

Mediation, education and development of monitoring guideline by the government

3. National parks:

Promotion of exploration and development based on coexistence with nature (Case studies: 6 national parks – Matsukawa, Ohnuma, Kakkonda, Onikoube, Ohtake and Hacchoubaru)

4. Relaxation of regulations:

Term reduction of EIA (Environmental Impact Assessment), relaxation of National Forests Act, On-demand permission of drilling by the local government, etc.

5. Legislative preparations:

Integration of regulations on laws such as hot springs and electricity and establishment of development rights and duty by the enactment of "Geothermal law."