



Energy Sector Management
Assistance Program



THE WORLD BANK

1893 • IDA

ESMAP 2024

Geothermal Energy: Empowering Development Beyond Electricity Generation

May 28, 2024

| EDUCATIONAL BACKGROUND



2000

Master Degree of Management

University of Gajah Mada (UGM)

1992

Bachelor Degree Petroleum Engineering (Geothermal)

University of Pembangunan Nasional (UPN)

EXPERIENCES |

2007 - Present

Sr. Manager Business Relations - **PT Supreme Energy**

Involved from the early development of the company up to commercializing 2 geothermal power plants.

2005 - 2007

Commercial & Operation Support Coordinator - **PT Star Energy**

Involved in licensing, financing, and project support for Unit 2 of the Wayang Windu Geothermal Power Plant

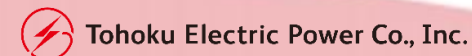
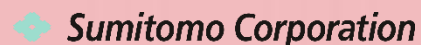
2003 - 2004

Mgr. Production Planning Inventory Control - **PT Westa Pusaka Kusuma**

One of the suppliers for Walmart. Involved in the procurement process of production materials and monitoring inventory to ensure productivity remains operational.

Ismoyo Argo

**Sr. Manager Business Relations
& General Affairs**







SUPREME ENERGY

Social-Economic Benefits from Geothermal Projects

Company Profile






MUARA LABOH GEOTHERMAL POWER PLANT

-  South Solok, West Sumatra
-  Installed capacity : 86 MW (Net)
-  Unit 1: COD on 16 December 2019
-  Unit 2: PPA Amendment was signed by PT PLN (Persero) and PT SEML on December 18, 2023, with the capacity of 86 MW.






RANTAU DEDAP GEOTHERMAL POWER PLANT

-  Muara Enim, Lahat Regency and Pagar Alam City, South Sumatra
-  Installed capacity : 2 x 49 MW (Gross)
-  Stage-1 : COD on 26 December 2021



RAJABASA GEOTHERMAL PROJECT

-  South Lampung Regency, Lampung
-  Current Status: PPA Amendment
-  Exploration preparation – target COD by 2031



Social and Economic Benefits



Geothermal Value Chain :

- Carried out gap mapping concerning company needs/demand and capability of supply from local enterprises.
- Fostering Local Enterprises to reduce the gap
- Ensure Local vendor eligibility and compliance on government regulations & company procurement policy
- Procurement strategy: as much as possible goods/services are provided by local enterprises to obtain optimum value
- Conduct the contract performance management meeting to evaluate and leverage the local enterprises capacity
- Obtained awards from The Investment Coordinating Board of Government Indonesia in terms of developing local enterprises

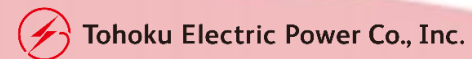
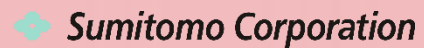


Social and Economic Benefits

Job Opportunity – Expanding Geothermal Workforce :

- Leveraging local workforce for geothermal activity
- Ensure transparent and fairness recruitment strategy to open wide opportunity for local employment
- Carried out skill gaps mapping
- Nurture new employee to meet geothermal industry specification (by having good collaboration between government, industry/geothermal association and education institution/university)
- Facilitate OJT, apprentice, training (GEODEP), etc.
- Promote gender diversity and social inclusion. No child labor allowed.

CATEGORY	MALE	FEMALE	TOTAL	FEMALE (%)
Senior Management	14	0	14	0%
Middle Management / Supervisory	35	6	41	15%
Professional Staff – please specify *Grade 8 to 10 (Specialist/Professional staff)	22	12	34	35%
Technical Staff – please specify *Grade 5 to 7 (Technical)	20	1	21	5%
Administrative/ Support Staff *Grade 5 to 7 (non-Technical)	2	1	3	33%
Total	93	20	113	18%



Social and Economic Benefits

Benefit Sharing for sustainable development (Balance Value for All stakeholder)

- Stakeholder mapping to identify key stakeholder including their perception and expectation
- Develop Stakeholder Management Plan and System.
- Disseminating transparent information through active stakeholder engagement – direct and indirect social benefits of geothermal activity
- Community involvement through CSR programs and “Community Committee”
- Develop active grievance mechanism to monitor social complaint and mitigate the gap immediately
- Submit periodic report to government and related stakeholders to obtain their supports



CSR Program Implementation - Four Pillar



Education & Health

- Collaboration with education institution and developing Scholarship program (78% are female)
- Improve the level of education access in the surrounding areas: students increased by $\pm 30\%$
- Assisting in improving health awareness and providing better health access
- Blood donor, free medical program, mass circumstances, food supplement, etc.



CSR Program Implementation - Four Pillar



Economic Empowerment

Contribute in improving the prosperity & Strengthen the community's quality of life.

- Implementation of Integrated Social Development Programs (ISDP) for Project Affected Persons (PAP) thru: Livelihood Restoration Program (LRP) & Livelihood Improvement Program (LIP)
- Agriculture Programs: coffee, rice, potatoes, onion and chili plantation
- Home industry programs : food & beverages, embroidery.
- Forming community cooperation platform.





CSR Program Implementation - Four Pillar



Infrastructure

Contribute in infrastructure improvement & rehabilitation as well as providing resources to address community needs.

- Construction of Road/bridge, irrigation, school, community market, and sport center
- Access road improvement to school, public health center building, work place, and market.



Bridge Repairment



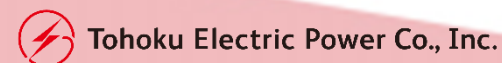
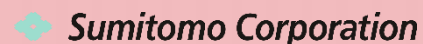
Village Market Development (Pasar Tradisional Kampung Baru Pekonina)

Sport center



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Paralayang Venue



CSR Program Implementation - Four Pillar

Community Relations

It is important to create a harmony by narrowing the gap through well planned and accountable measures of community relations.

- Maintain good relationship & communication with key stakeholders : carry out Ramadhan gathering, participation in community event, formal & informal community engagement & consultation.
- Monitoring community complaint - Any grievance received is handled thoroughly.
- Benchmarking programs: visiting geothermal power plant
- Forming a community-company based platform called “Community Committee”



Mass Circumcision

More about our Journey

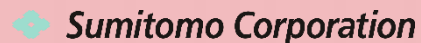


Supreme Energy Rantau Dedap Journey

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Supreme Energy Muara Laboh Journey

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Marubeni



Tohoku Electric Power Co., Inc.

INPEX

