



ID-Geothermal Energy Upstream Development (P155047)

EAST ASIA AND PACIFIC | Indonesia | Energy & Extractives Global Practice |
 Recipient Executed Activities | Investment Project Financing | FY 2017 | Seq No: 10 | ARCHIVED on 24-Dec-2020 | ISR45142 |

Implementing Agencies: PT Sarana Multi Infrastruktur (Persero), PT Sarana Multi Infrastruktur (Persero), PT Geo Dipa Energi

Key Dates**Key Project Dates**

Bank Approval Date: 09-Feb-2017

Effectiveness Date: 04-Aug-2017

Planned Mid Term Review Date: 31-Jan-2020

Actual Mid-Term Review Date: 14-Jan-2020

Original Closing Date: 31-Dec-2022

Revised Closing Date: 31-Dec-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The PDO is to facilitate investment in geothermal power generation and reduce greenhouse gas emissions.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Risk Mitigation for Geothermal Exploration Drilling:(Cost \$98.00 M)

Capacity Building on Geothermal Exploration and Environmental and Social Safeguards Management

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Unsatisfactory	<input type="checkbox"/> Moderately Unsatisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Unsatisfactory	<input type="checkbox"/> Moderately Unsatisfactory
Overall Risk Rating	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

Implementation Status and Key Decisions

The Project was approved in February 2017 and became effective in August 2017. The Project has recently been restructured to include PT Geo Dipa Energi in the implementation arrangement. The Project will support four subprojects: Waesano (Flores Island, East Nusa Tenggara Province), Jailolo (Halmahera, North Maluku), Bittuang (Tana-Toraja, South Sulawesi), and Nage (Flores, East Nusa Tenggara).

Risks

**Systematic Operations Risk-rating Tool**

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	☐ Substantial	☐ Moderate	☐ Moderate
Macroeconomic	☐ Moderate	☐ Moderate	☐ Moderate
Sector Strategies and Policies	☐ Substantial	☐ Substantial	☐ Substantial
Technical Design of Project or Program	☐ Moderate	☐ Moderate	☐ Moderate
Institutional Capacity for Implementation and Sustainability	☐ Substantial	☐ Substantial	☐ Substantial
Fiduciary	☐ Substantial	☐ Moderate	☐ Moderate
Environment and Social	☐ Substantial	☐ Substantial	☐ Substantial
Stakeholders	☐ Substantial	☐ Substantial	☐ Substantial
Other	--	☐ Substantial	☐ Substantial
Overall	☐ Substantial	☐ Substantial	☐ Substantial

Results**PDO Indicators by Objectives / Outcomes**

To facilitate investment in geothermal power generation				
▶ Electric power generation capacity enabled through the issuance of geothermal development licenses (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	65.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
▶ Commercial capital mobilized for investment in geothermal power generation (million) (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	195.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
To reduce greenhouse gas emissions				
▶ Estimated GHG emission reduction compared to a business-as-usual baseline (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	330,000.00



Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
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Intermediate Results Indicators by Components

Risk Mitigation for Geothermal Exploration Drilling				
▶ Total generating capacity-equivalent of steam yield from all wells drilled when converted to equivalent standard diameter well production (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	48.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
▶ Average generating capacity-equivalent of steam yield per well drilled when converted to equivalent standard diameter well production (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6.00
Date	01-May-2017	08-Oct-2020	23-Oct-2020	31-Dec-2025
▶ Issuance of geothermal development licenses (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
▶ Estimated increase in the number of connected households for the associated local electricity networks (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	116,411.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
▶ Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	582,055.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
□ Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00



► Delivery of Inferred Resource Capacity Reports by Exploration Management Team (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	4.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
► Villages located next to exploration sites with at least one public consultation held (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025
► Share of public consultations segregated by gender (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	12.00	12.00	50.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025

Capacity Building on Geothermal Exploration and Environmental and Social Safeguards Management				
► Practice guides for safeguards implementation (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	01-May-2017	08-Oct-2020	23-Dec-2020	31-Dec-2025

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

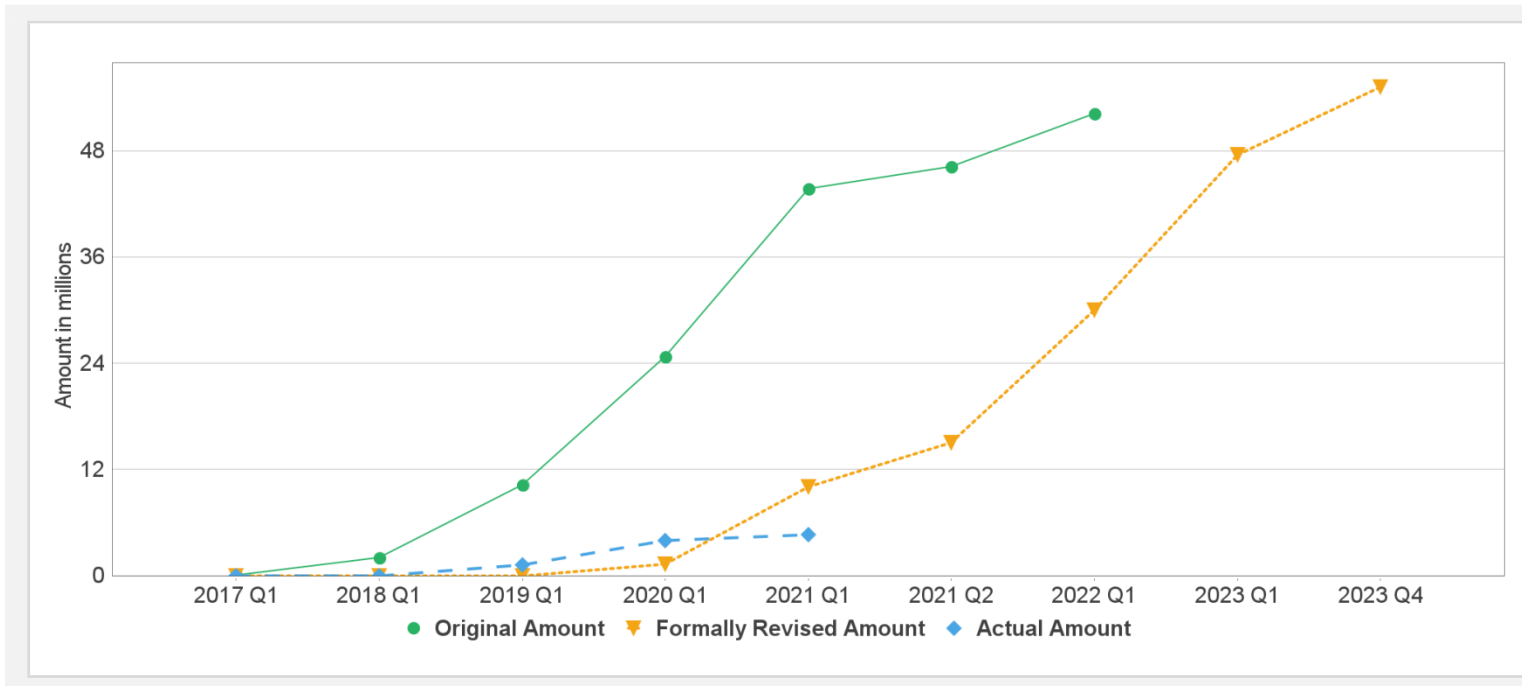
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P161644	TF-A4086	Effective	USD	6.25	6.25	0.00	2.56	3.69	41%
P155047	TF-A4089	Effective	USD	49.00	49.00	0.00	2.10	46.90	4%

Key Dates (by loan)



Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P161644	TF-A4086	Effective	09-Feb-2017	07-Mar-2017	04-Aug-2017	31-Dec-2022	31-Dec-2022
P155047	TF-A4089	Effective	09-Feb-2017	07-Mar-2017	04-Aug-2017	31-Dec-2022	31-Dec-2022

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

P161644-ID-Geothermal Energy Upstream Development