# The World Bank ID-Geothermal Energy Upstream Development (P155047)

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EAST ASIA AND PACIFIC | Indonesia | Energy & Extractives Global Practice |

Recipient Executed Activities | Investment Project Financing | FY 2017 | Seq No: 13 | ARCHIVED on 29-Jun-2022 | ISR52035 |

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

#### **Key Dates**

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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-2025

#### **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

Public Disclosure Authorized

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	□Moderately Unsatisfactory	■ Moderately Unsatisfactory
Overall Implementation Progress (IP)	□Moderately Unsatisfactory	■Moderately Unsatisfactory
Overall Risk Rating	Substantial	Substantial

# Implementation Status and Key Decisions

The Project was approved in February 2017 and became effective in August 2017. The Project was restructured in May 2021 to include PT Geo Dipa Energi as the Project Implementing Agency with PT SMI as the Fund Manager. The Project supports four subprojects: Waesano (Flores Island, East Nusa Tenggara Province), Jailolo (Halmahera, North Maluku), Bittuang (Tana-Toraja, South Sulawesi), and Nage (Flores, East Nusa Tenggara). Most of the progress to date has been on Waesano.

6/29/2022 Page 1 of 5

#### **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	□High
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	15-Dec-2021	17-Jun-2022	31-Dec-2025				
► Commercial capital mobilized	for investment in geotherma	I power generation (million) (A	Amount(USD), Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	0.00	0.00	195.00				
Date	01-May-2017	15-Dec-2021	17-Jun-2022	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

6/29/2022 Page 2 of 5

Value	0.00	0.00	0.00	330,000.00
Date	01-May-2017	15-Dec-2021	17-Jun-2022	31-Dec-2025

# **Intermediate Results Indicators by Components**

►Total generating ca (Megawatt, Custom)	pacity-equivalent of steam yield fr	om all wells drilled when conve	erted to equivalent standard	diameter well production
	Baseline Actual (Previous) Actual (Current)		End Target	
Value	0.00	0.00	0.00	48.00
Date	01-May-2017	15-Dec-2021	17-Jun-2022	31-Dec-2025
► Average generating (Megawatt, Custom)	capacity-equivalent of steam yiel	d per well drilled when convert	ed to equivalent standard d	iameter well production
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6.00
Date	01-May-2017	15-Dec-2021	17-Jun-2022	31-Dec-2025
►Issuance of geother	rmal development licenses (Numb	per, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	01-May-2017	15-Dec-2021	17-Jun-2022	31-Dec-2025
►Estimated increase	in the number of connected hous	eholds for the associated local	electricity networks (Number	er, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	116,411.00
Date	01-May-2017	15-Dec-2021	17-Jun-2022	31-Dec-2025
► Direct project benef	riciaries (Number, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	582,055.00
	04 May 2017	15-Dec-2021	17-Jun-2022	31-Dec-2025
Date	01-May-2017	10 DCC 2021	17 Gan 2022	01 000 2020
	ies (Percentage, Custom Suppler		17 64.11 2022	01 500 2020

6/29/2022 Page 3 of 5

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	0.00	0.00	4.00					
Date	01-May-2017	15-Dec-2021	17-Jun-2022	31-Dec-2025					
►Villages located next to exp	loration sites with at least one	e public consultation held (Pe	ercentage, Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target					
Value	0.00	100.00	100.00	100.00					
Date	01-May-2017	15-Dec-2021	17-Jun-2022	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	15-Dec-2021	17-Jun-2022	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 15-Dec-2021 17-Jun-2022 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	4.86	1.39		78%
P155047	TF-A4089	Effective	USD	49.00	49.00	0.00	8.24	40.76		17%

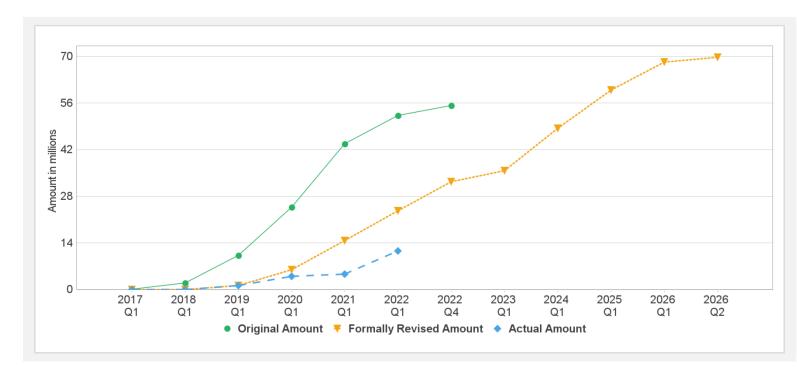
6/29/2022 Page 4 of 5



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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-2025
P155047	TF-A4089	Effective	09-Feb-2017	07-Mar-2017	04-Aug-2017	31-Dec-2022	31-Dec-2025

# **Cumulative Disbursements**



# **Restructuring History**

Level 2 Approved on ,Level 2 Approved on 25-May-2021

# Related Project(s)

P155047-ID-Geothermal Energy Upstream Development ,P161644-ID-Geothermal Energy Upstream Development

6/29/2022 Page 5 of 5