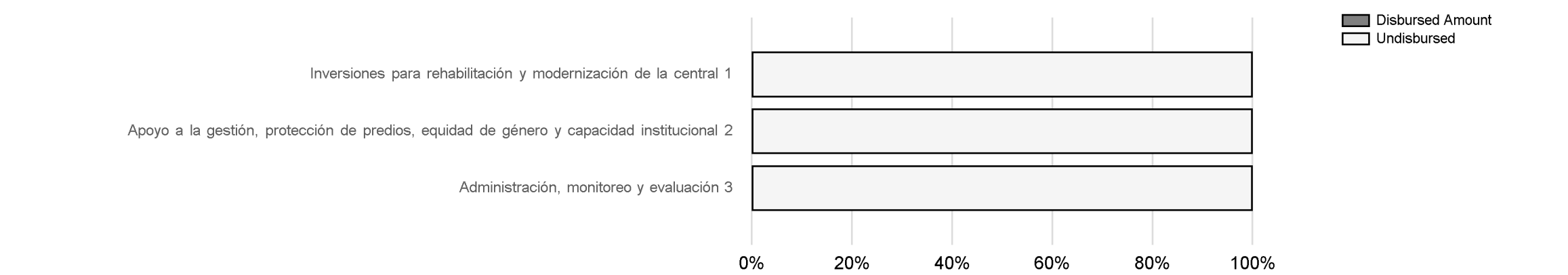


PMR Public Report

Operation Number	PR-L1156	Chief of Operations Validation Date	04/07/22
Year- PMR Cycle	Second period Jan-Dec 2021	Division Chief Validation Date	04/24/22
Last Update	03/24/22	Country Representative Validation Date	05/09/22
PMR Validation Stage	Validated by Representative		
Basic Data			
Operation Profile			
Operation Name	Rehabilitation and Modernization Program for the Acaray Hydropower Plant	Loan Number	4690/OC-PR
Executing Agency	ADMINISTRACION NACIONAL DE ELECTRICIDAD (ANDE)	Sector/Subsector	ENERGY-ENERGY SECTOR REHABILITATION AND EFFICIENCY
Team Leader	PRADO, VERONICA RODRIGUES DO	Overall Stage	Disbursing (From eligibility until all the Operations are closed)
Operation Type	Loan Operation	Country	Paraguay
Lending Instrument	Investment Loan	Convergence related Operation(s)	
Borrower	ADMINISTRACION NACIONAL DE ELECTRICIDAD (ANDE)		
Environmental and Social Safeguards			
Impacts Category	B	Was/Were the objective(s) of this operation reformulated?	NO
Safeguard Performance Rating	Partially Satisfactory	Date of approval	
Safeguard Performance Rating - Rationale	La ANDE no cuenta aún con el equipo de profesionales ambientales, sociales y en salud y seguridad ocupacional (SYSO) requeridos para la gestión del Programa.		

Financial Data									
	Total Cost and Source					Available Funds (US\$)			
Operations	Original IDB	Current IDB	Local Counterpart	Co-Financing / Country	Total Original Cost	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Amount
PR-L1156	125,000,000	125,000,000	20,200,320	0	145,200,320	125,000,000	745,989	0.60%	124,254,011
Aggregated	125,000,000	125,000,000	20,200,320	0	145,200,320	125,000,000	745,989	0.60%	124,254,011
Expense Categories by Loan Contract (cumulative values)									



Please note that inactive indicators and outputs are not displayed; totals in the actual cost table may not match the sum of the cost of the outputs displayed, due to the cost of inactive outputs.

RESULTS MATRIX							
General Development Objectives							
General Development Objectives Nbr. 1: Contribuir a la modernización del sector eléctrico de Paraguay a través del financiamiento de inversiones de rehabilitación de infraestructura eléctrica de la Administración Nacional de Electricidad							
Observation:							
Indicator		Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2026	
1.2	Energía Renovable Media Anual de Acaray	GWh/año	947	2017	2026	P	980
						A	-
Details							

Means of Verification: Resumen Estadístico ANDE

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator					
Indicator				Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2026	
1.3	Emisiones totales de CO2 evitadas			Ton CO2/año	0	2017	2026	P	48,700
								A	-
Details									

Means of Verification: Resumen Estadístico ANDE (+Factor de Emisiones)

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator					
Indicator				Unit of Measure	Baseline	Baseline Year	Expected Year of Achievement	EOP 2026	
1.4	Exportaciones de energía ANDE			GWh/año	73	2017	2026	P	115
								A	-
Details									

Means of Verification: Resumen Estadístico ANDE

Observations:

The General Development Objective indicator target is expected to be observed by the operation's "Fully Justified" date in Convergence (CO): No

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

RESULTS MATRIX

Specific Development Objectives

Specific Development Objectives Nbr. 0: Extensión de la vida útil de la Central Hidroeléctrica Acaray

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2026	EOP 2026
0.0	Vida útil teórica de las Unidades 1 y 2, Casa de Máquinas 1	Años	0	2017	P	30	30
					A	-	-

Details

Means of Verification: Evaluación final del Proyecto

Observations: Considera el reemplazo de nuevos equipos del tren de potencia: turbina, generador y transformador

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

Specific Development Objectives Nbr. 1: Mejorar en la disponibilidad y la confiabilidad de la Central Hidroeléctrica Acaray

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2026	EOP 2026
1.0	Disponibilidad de las Unidades 1 y 2, Casa de Máquinas 1	%	55	2017	P	78	78
					A	-	-

Details

Means of Verification: Informe Indicadores de desempeño Acaray

Observations: Las intervenciones mismas del proyecto afectan la disponibilidad por lo que se espera que alcance el 96% después de al menos de un año de puesta en servicio de la última unidad

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

Indicator		Unit of Measure	Baseline	Baseline Year		2026	EOP 2026
1.1	Tasa de indisponibilidad forzada de las Unidades 1 y 2, Casa de Máquinas 1	fallas/año	22	2017	P	7	7
					A	-	-

Details

Means of Verification: Informe Indicadores de desempeño Acaray

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

Specific Development Objectives Nbr. 2: Incrementar la capacidad de generación de la Central Hidroeléctrica Acaray

Observation:

Indicator		Unit of Measure	Baseline	Baseline Year		2026	EOP 2026
2.0	Capacidad nominal de la Casa de Máquinas I	MW	94	2017	P	114	114
					A	-	-

Details

Means of Verification: Informe Indicadores de desempeño Acaray

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			
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	Indicator		Unit of Measure	Baseline	Baseline Year		2026	EOP 2026
2.1	Registro completo de visitantes a los predios	#	0	2021	P	1	1	
					A	-	-	
Details								

Means of Verification: Informe Indicadores de desempeño Acaray

Observations:

Evaluation Methodology: -

Pro-Gender	No	Pro-Ethnicity	No	CRF indicator			

RESULTS MATRIX

OUTPUTS: ANNUAL PHYSICAL AND FINANCIAL PROGRESS

Component Nbr. 1 Inversiones para rehabilitación y modernización de la central

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2026	2021	EOP 2026
1.01	Diseño de ingeniería y supervisión desarrollado	#	P	-	1	379,500	12,650,000
			P (a)	-	1	379,500	13,750,000
			A	-	-	-	-
1.02	Sistemas hidro electromecánicos de las represas de Acaray e Yguazú reemplazados y modernizados	#	P	-	1	-	8,496,000
			P (a)	-	1	-	8,496,000
			A	-	-	-	-
1.03	Grúas y pórticos para las Centrales Acaray 1 y Acaray 2 y presas Acaray e Yguazú renovadas	#	P	-	7	-	4,130,000
			P (a)	-	7	-	4,130,000
			A	-	-	-	-
1.04	Sistema de generación de la central Acaray reemplazado	#	P	-	1	-	46,610,000
			P (a)	-	1	-	46,610,000
			A	-	-	-	-
1.05	Sistemas Eléctricos Media y Baja Tensión reemplazados	#	P	-	1	-	8,378,000
			P (a)	-	1	-	8,378,000
			A	-	-	-	-
1.06	Sistema Integral digital de adquisición y gestión de datos de la central	#	P	-	1	-	5,900,000
			P (a)	-	1	-	5,900,000
			A	-	-	-	-
1.07	Subestación de la Central Acaray existente rehabilitada	#	P	-	1	-	17,700,000
			P (a)	-	1	-	17,700,000
			A	-	-	-	-
1.08	Sistema de Seguridad de Presas implementado	#	P	-	1	-	3,300,000
			P (a)	-	1	-	3,300,000
			A	-	-	-	-
1.09	Infraestructura para ejecución de intervenciones construidas	#	P	-	1	-	3,300,000
			P (a)	-	1	-	3,300,000
			A	-	-	-	-
1.10	Edificios de la central Acaray rehabilitados	#	P	-	1	-	5,500,000
			P (a)	-	1	-	5,500,000
			A	-	-	-	-
1.11	Red hidrometeorológica de la cuenca del Río Acaray rehabilitada y ampliada	#	P	-	1	-	1,100,000
			P (a)	-	1	-	1,100,000
			A	-	-	-	-
1.12	Plan de gestión ambiental, salud y seguridad ocupacional Complejo Acaray – Yguazú implementado	#	P	-	1	-	2,750,000
			P (a)	-	1	-	2,750,000
			A	-	-	-	-

Component Nbr. 2 Apoyo a la gestión, protección de predios, equidad de género y capacidad institucional

				PHYSICAL PROGRESS		FINANCIAL PROGRESS	
	Output	Unit of Measure		2021	EOP 2026	2021	EOP 2026
2.01	Obras civiles para protección de predios que incluye centro de visitantes construidos	#	P	-	1	-	2,695,000
			P (a)	-	1	-	2,695,000
			A	-	-	-	-
2.02	Sistema de gestión para la operación y el mantenimiento de la central implementado	#	P	-	1	-	3,300,000
			P (a)	-	1	-	3,300,000
			A	-	-	-	-
2.03	Estrategia de género diseñada e implementada en ANDE	Estrategia	P	-	1	-	770,000
			P (a)	-	1	-	770,000
			A	-	-	-	-
2.04	Talleres de capacitación al personal de ANDE desarrollados	#	P	-	3	-	330,000
			P (a)	-	3	-	330,000
			A	-	-	-	-
2.05	Plan piloto de sistema aislado híbrido en Puerto Esperanza construído	#	P	-	1	630,000	2,100,000
			P (a)	-	1	630,000	2,100,000
			A	-	-	-	-
2.06	Planes Piloto de sistema aislado híbrido en Alto Paraná construido	#	P	-	1	-	400,000
			P (a)	-	1	-	400,000
			A	-	-	-	-
2.07	Panel de expertos	#	P	-	1	-	715,000
			P (a)	-	1	-	715,000
			A	-	-	-	-

Other Cost				
	Unidad de Administracion en funcionamiento	P	299,063	1,749,000
		P (a)	299,063	1,749,000
		A	24,439.72	24,439.72
	Evaluación final e intermedia	P	0	121,000
		P (a)	0	121,000
		A	0	0
	Auditoría externa	P	44,000	220,000
		P (a)	44,000	220,000
		A	0	0
	Contingencias e imprevistos	P	0	12,986,320
		P (a)	0	11,886,320
		A	0	0
Total Cost				
	Total Cost	P	1,352,563	145,200,320
		P (a)	1,352,563	145,200,320
		A	24,439.72	24,439.72

CHANGES TO THE MATRIX

Section	Name	Type of Change	Sub type	Modified By	Entered in System
Output	Diseño de ingeniería y supervisión desarrollado	Modify Output	Modify Financial EOP P(a) value - caused by a change in the Financial P(a).	RCABRERA	3/22/2022

RISKS AND PLANNED RESPONSES

Risk ID	Risk Status		Risk Taxonomy
1	Active		Planning
	Response Actions		
	1.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
4	Active		Goods, and Services
	Response Actions		
	4.1	Management Strategy	Status
		MITIGATE	ACTIVE
	4.2	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
6	Active		Environmental and Social Safeguards
	Response Actions		
	6.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
7	Active		Environmental and Social Safeguards
	Response Actions		
	7.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
10	Inactive		Environmental and Social Safeguards
	Response Actions		
	10.1	Management Strategy	Status
		MITIGATE	INACTIVE

Risk ID	Risk Status		Risk Taxonomy
11	Active		Internal Processes
	Response Actions		
	11.1	Management Strategy	Status
		MITIGATE	ACTIVE
	11.2	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
13	Active		Goods, and Services
	Response Actions		
	13.1	Management Strategy	Status
		MITIGATE	ACTIVE

Risk ID	Risk Status		Risk Taxonomy
15	Active		Governance Framework
	Response Actions		
	15.1	Management Strategy	Status
		MITIGATE	ACTIVE

IMPLEMENTATION STATUS AND LEARNING

Lesson Learned - Categories
Project Management Capacity
Acquisitions and Procurement - Bidding Stage
Intra/Inter Coordination