



Operation Number: **HO-L1102**
 Year- PMR Cycle: **First period Jan-Jun 2016**
 Last Update: **11/18/2016**
 PMR Validation Stage: **Validated by Chief of Operations**

Chief of Operations validation date: **10/19/2016**
 Division Chief validation date:
 Country Representative validation date:

Inter-American Development Bank - IDB
 Office of Strategic Planning and Development Effectiveness

Operation Profile

Basic Data

Operation name:	Cañaveral-Río Lindo Hydropower Complex Rehabilitation and Uprating Project	Loan Number:	3435/BL-HO
Executing Agency (EA):	EMPRESA NACIONAL DE ENERGIA ELECTRICA		
Team Leader:	Jacome Montenegro, Carlos Alberto	Sector/Subsector:	ENERGY EFFICIENCY AND RENEWABLE ENERGY IN END USE
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the Operations are closed)
Lending Instrument:	Investment Loan	Country:	HONDURAS
Borrower:	REPUBLICA DE HONDURAS	Convergence related Operation(s):	

Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
HO-L1102	\$23,000,000.00	\$23,000,000.00	\$8,816,000.00		\$31,816,000.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
HO-L1102	\$23,000,000.00	\$4,219,428.00	18.35%	\$18,780,572.00

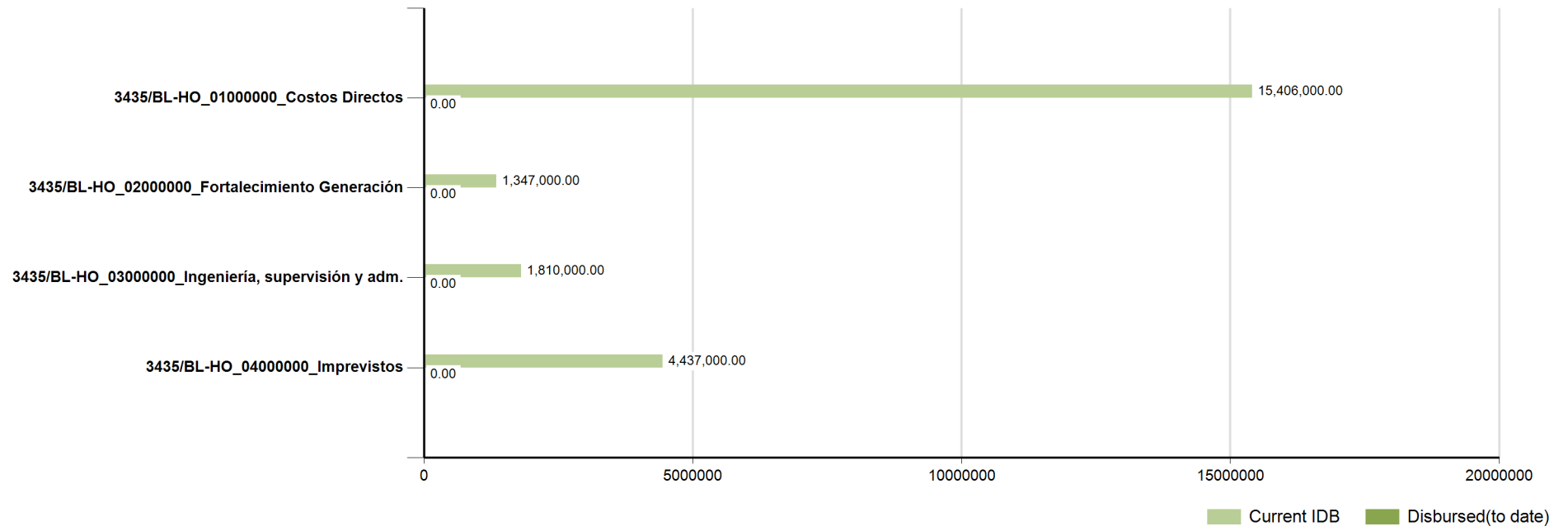
Environmental and Social Safeguards

Main Operation	
Impacts Category:	B
Safeguard Performance Rating:	
Safeguard Performance Rating - Rationale:	

Reformulation Information

Main Operation	
Was/Were the objective(s) of this operation reformulated?	NO
Date of approval:	

Expense Categories by Loan Contract (cumulative values)



Results Matrix

Impacts

Impact:	0 Mayor participación de las fuentes renovables en la matriz de generación eléctrica								
Observation:	Medio de verificación: Informe mensual de operación ENEE								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2020		EOP
0.0 Generación proveniente de ER/Generación total		%	38.00	2014			P		53.80
							P(a)		53.80
							A		

RF - Contribution	RF - Alignment	RF - Strategic Alignment	RF - Strategic Alignment during Execution
SI - Sector Indicator	CI - Country Indicator	PG - Pro-Gender	PE - Pro-Ethnicity

Outcomes

Outcome:	1 Mejora en la confiabilidad en transmisión									
Observation:	Medio de verificación: Informe mensual de Fallas									
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		2020	EOP
1.0 Fallas por año – S/E Cañaveral		# de incidentes	1.00	2014			P	2.00		1.00
							P(a)	2.00		1.00
							A	3.00		
1.1 Duración promedio de fallas año S/E Cañaveral		horas	0.08	2014			P	2.30		0.05
							P(a)	2.30		0.05
							A	0.60		
1.2 Fallas por año – S/E Río Lindo		# de incidentes	8.00	2014			P	9.00		2.00
							P(a)	9.00		2.00
							A	2.00		
1.3 Duración promedio de fallas año S/E Río Lindo		horas	16.69	2014			P	17.50		4.00
							P(a)	17.50		4.00
							A	98.44		
Outcome:	2 Reducción de emisiones de Gases Efecto Invernadero (GEI) provenientes de la generación eléctrica									
Observation:	Medio de verificación: Informes remitidos por MiAmbiente									
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		2020	EOP
2.0 Emisiones anuales de CO2 provenientes de la generación de electricidad en Honduras		Toneladas equivalentes de CO2/año		2014			P			
							P(a)			
							A			
Outcome:	3 Transacciones de energía en el MER									
Observation:	Medio de verificación: Informes Ente Operador Regional EOR									

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015	2020	EOP	
3.0 Cantidad de energía transada en el MER		GWh	2,850.00	2014			P	2,993.00		3,819.00
							P(a)	2,993.00		3,819.00
							A	2,881.00		

Outcome: 4 Mejor capacidad de manejo empresarial de la generación eléctrica

Observation: Medio de verificación: Informe mensual de operación ENEE

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015	2020	EOP	
4.0 Potencia de proyectos de energía renovable		MV	0.00	2014			P			100.00
							P(a)			100.00
							A			
4.1 Compra de energía térmica a través de procesos competitivos		MWh	0.00	2014			P			
							P(a)			
							A			
4.2 Compra de energía renovable a través de procesos competitivos		MWh	0.00	2014			P			
							P(a)			
							A			

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Outputs: Annual Physical and Financial Progress

COMPONENTE 1. Repotenciación y rehabilitación de generación y transmisión		Physical Progress		Financial Progress	
Outputs	Unit of Measure	2016	EOP	2016	EOP
Subestación Planta Cañaveral rehabilitada	Subestación	P	1.00	P	10,696,929.55
		P(a)	1.00	P(a)	10,696,929.55
		A	0.00	A	0.00
Subestación Planta Río Lindo rehabilitada	Subestación	P	1.00	P	9,732,987.02
		P(a)	1.00	P(a)	9,732,987.02
		A	0.00	A	0.00
COMPONENTE 2. Fortalecimiento de la Empresa de Generación de la ENEE		Physical Progress		Financial Progress	
Outputs	Unit of Measure	2016	EOP	2016	EOP
Gerencia General de Generación fortalecida	Gerencia	P	1.00	P	43,610.00
		P(a)	1.00	P(a)	83,610.00
		A	0.00	A	0.00
Unidad de la Central Hidroeléctrica Cañaveral - Río Lindo fortalecida	Unidad	P	1.00	P	928,000.00
		P(a)	1.00	P(a)	1,011,060.00
		A	0.00	A	59,147.48

Other Cost		2016	Cost
Auditoría Externa realizada	P	\$15,000.00	\$150,000.00
	P(a)	\$15,000.00	\$150,000.00
	A	\$8,976.90	\$8,976.90
Auditoría Ambiental realizada	P		\$30,000.00
	P(a)		\$30,000.00
	A		\$0.00
Evaluación Medio Término y Final realizadas	P		\$40,000.00
	P(a)		\$40,000.00
	A		\$0.00
Unidad Coordinadora fortalecida	P	\$64,799.97	\$665,000.00
	P(a)	\$108,514.48	\$665,000.00
	A	\$13,498.76	\$13,498.76
Supervisión del Proyecto ENEE realizada	P	\$324,278.04	\$2,586,454.05
	P(a)	\$324,278.04	\$2,586,454.05
	A	\$70,174.35	\$70,174.35
Total Cost		2016	Total Cost
	P	\$1,375,688.01	\$25,586,454.05
	P(a)	\$1,442,462.52	\$25,586,454.05
	A	\$151,797.49	\$151,797.49

Changes to the Matrix

No information related to this operation.

Please note that the Overall Stage represents the stage of the operation at the time of this report's publication, which might not necessarily match the stage of the operation during the PMR Cycle to which the report pertains.