



Operation Number: **BO-L1043**  
Year- PMR Cycle: **Second period Jan-Dec 2013**  
Last Update: **6/30/2014**  
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **07/01/2014**  
Division Chief validation date: **07/02/2014**  
Country Representative validation date: **07/03/2014**

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

## Operation Profile

### Basic Data

Operation name:	Misicuni Renewable Energy Hydroelectric Project	Loan Number:	2238/BL-BO
Executing Agency (EA):	EMPRESA NACIONAL DE ELECTRICIDAD		
Team Leader:	Alarcon Rodriguez, Arturo Daniel	Sector/Subsector:	NEW HYDROPOWER PROJECTS
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the loans are closed).
Lending Instrument:	Investment Loan	Country:	BOLIVIA
Borrower:	REPUBLICA DE BOLIVIA		
		Convergence related Operation(s):	

### Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
BO-L1043	\$101,000,000.00	\$101,000,000.00	\$13,100,000.00	\$0.00	\$114,100,000.00

### Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BO-L1043	\$101,000,000.00	\$45,129,354.11	44.68%	\$55,870,645.89

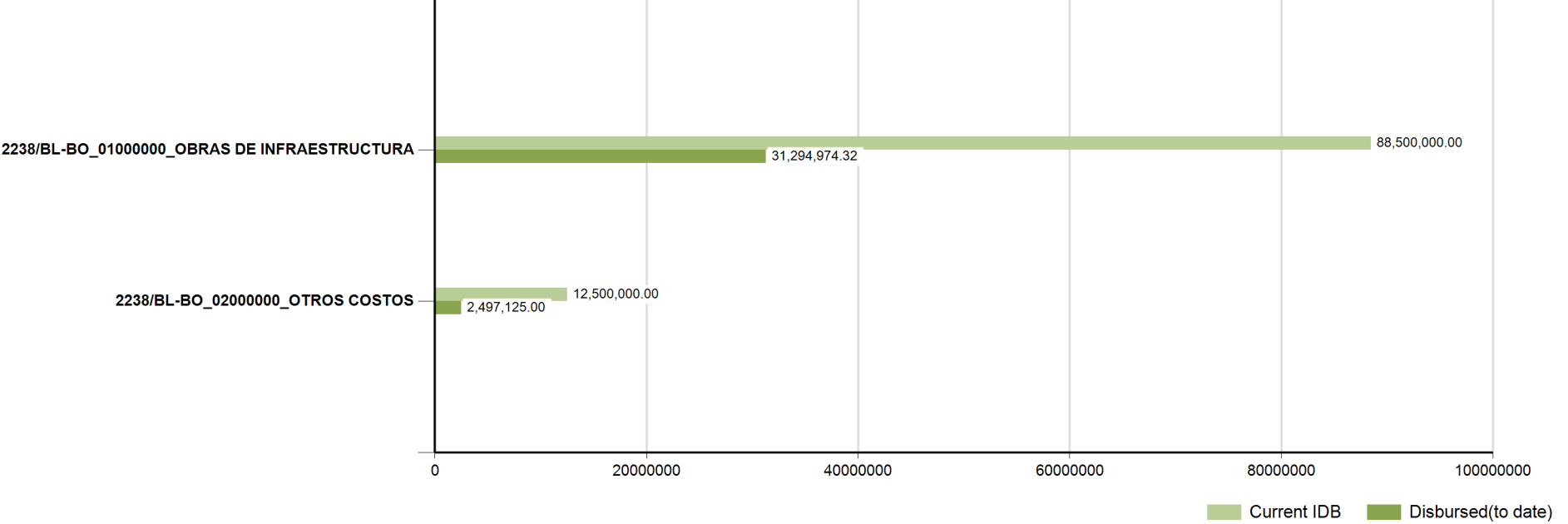
### Environmental and Social Safeguards

Main Operation	
Impacts Category:	A
Safeguard Performance Rating:	Partially Satisfactory
Safeguard Performance Rating - Rationale:	Several improvements made with E&S conditions; project drastically behind schedule, needs improvement on H&S issues

### 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

No information related to this operation.

Outcomes

Outcome:	1 Capacidad de generación de energía eléctrica incrementada.									
Observation:										
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		EOP	
1.1 Generación eléctrica por año.		GWh/año	0.00	2009	Estadísticas anuales del Comité Nacional de Despacho de Carga (CNDC).		P		217.20	
							P(a)	217.20	217.20	
							A			
Outcome:	2 Acceso a agua potable incrementado.									
Observation:										
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2015		EOP	
2.1 Volumen regulado para riego y agua potable.		m³/día	12,960.00	2009	Estadísticas de la Empresa Nacional de Electricidad y Misicuni.		P		264,600.00	
							P(a)	264,600.00	264,600.00	
							A			
2.2 Valor de las tierras beneficiadas.		US\$/m2	5.00	2009	Encuesta Empresa Nacional de Electricidad - ENDE en el mercado inmobiliario		P		10.00	
							P(a)	10.00	10.00	
							A			

 RF - RF Indicator     SI - Sector Indicator     CI - Country Indicator     PG - Pro-Gender     PE - Pro-Ethnicity

Outputs: Annual Physical and Financial Progress

Obras de infraestructura		Physical Progress			Financial Progress		
Outputs	Unit of Measure	2013		EOP	2013		EOP
Casa de máquinas construida y equipada.	Casa de Maquinas	P		1.00	P	18,280,270.00	33,632,970.00
		P(a)	0.00	1.00	P(a)	3,848,506.51	35,122,085.24
		A	0.00	0.00	A	1,046,256.00	7,502,665.00
Obras de extensión de túnel, chimenea	Obras	P	2.00	3.00	P	3,494,520.00	11,439,000.00

de equilibrio y blindaje construidas.		P(a)	0.00		P(a)	0.00	
		A			A		
Excavación y blindaje del tunel concluidos	metros	P			P		
		P(a)	300.00	706.00	P(a)	1,830,047.09	4,216,463.84
		A	413.00	413.00	A	2,147,487.00	2,151,270.53
Tubería de presión y válvula de seguridad construida.	Tubería	P	1.00	1.00	P	6,451,120.00	28,939,840.00
		P(a)	0.00		P(a)	0.00	0.00
		A			A		
Válvula de seguridad instalada y funcionando	Valvula de seguridad	P			P		
		P(a)	0.00	1.00	P(a)	132,534.15	4,153,072.14
		A	0.00	0.00	A	242,402.00	544,402.00
Chimenea de equilibrio concluida	metros	P			P		
		P(a)	20.00	150.00	P(a)	585,920.13	6,035,388.46
		A	3.00	3.00	A	2,203,775.00	2,203,775.00
Tubería forzada instalada	metros	P			P		
		P(a)	500.00	4,938.00	P(a)	12,220,303.20	35,057,756.66
		A	0.00	0.00	A	8,254,417.00	19,832,418.46
Embalse de compensación construido.	Embalse	P	1.00	1.00	P	3,541,010.00	7,142,960.00
		P(a)	0.00	1.00	P(a)	2,322,712.35	7,180,671.05
		A	0.00	0.00	A	2,374,822.00	2,374,822.00
Subestación construida y puesta en marcha	subestacion	P	1.00	1.00	P	3,120,730.00	5,019,480.00
		P(a)		1.00	P(a)	3,935,387.10	5,943,475.21
		A	0.00	0.00	A	161,071.00	320,676.44
Lineas de transmision construidas.	Kilómetros	P		18.00	P	4,216,780.00	6,969,010.00
		P(a)		23.00	P(a)	0.00	3,500,000.00
		A	0.00	0.00	A	0.00	0.00
Caminos de acceso contruidos.	Kilómetro	P		15.00	P		1,756,750.00
		P(a)	0.00	17.25	P(a)	253,326.00	772,129.00
		A		17.25	A	253,326.00	772,129.00
Otros costos							

Other Cost		2013	Cost
Acciones de mitigación de impactos ambientales y sociales realizadas.	P	\$1,200,000.00	\$3,200,000.00
	P(a)	\$80,908.00	\$1,413,322.36
	A	\$237,230.36	\$1,343,322.36
Auditorias	P	\$50,000.00	\$200,000.00
	P(a)	\$13,000.00	\$55,774.93
	A	\$13,670.56	\$25,774.93
Administracion y gestion	P	\$1,022,500.00	\$3,699,996.00
	P(a)	\$663,572.00	\$1,424,479.39
	A	\$29,883.39	\$1,372,479.39
Impuesto a las importaciones y gastos arancelarios	P		
	P(a)		\$3,500,000.00
	A	\$0.00	\$0.00
Supervisión del Proyecto	P		
	P(a)	\$1,167,950.00	\$4,379,812.45
	A	\$466,390.05	\$1,342,353.05
Total Cost		2013	Total Cost
	P	\$41,376,930.00	\$102,000,006.00
	P(a)	\$27,054,166.53	\$85,142,422.57
	A	\$17,430,730.36	\$39,786,088.16

**Changes to the Matrix**

No information related to this operation.