



Operation Number: **BR-L1278**  
Year- PMR Cycle: **Primer período enero-junio 2014**  
Last Update: **10/22/2014**  
PMR Validation Stage: **Validada por el Representante de País**

Chief of Operations validation date: **10/24/2014**  
Division Chief validation date: **11/10/2014**  
Country Representative validation date: **11/12/2014**

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

## Operation Profile

### Basic Data

Operation name:	Rehabilitación de las Hidroeléctricas Furnas y Luiz Carlos Barreto de Carvalho	Loan Number:	2549/OC-BR
Executing Agency (EA):	FURNAS - CENTRAIS ELETRICAS S.A.		
Team Leader:	Larrea,Sylvia Virginia	Sector/Subsector:	NEW HYDROPOWER PROJECTS
Operation Type:	Loan Operation	Overall Stage:	Desembolso (De la elegibilidad hasta que todos los préstamos están cerrados).
Lending Instrument:	Investment Loan	Country:	BRAZIL
Borrower:	FURNAS - CENTRAIS ELETRICAS S.A.	Convergence related Operation(s):	

### Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
BR-L1278	\$128,660,000.00	\$128,660,000.00	\$24,500,000.00	\$0.00	\$153,160,000.00

### Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BR-L1278	\$128,660,000.00	\$113,433,619.56	88.17%	\$15,226,380.44

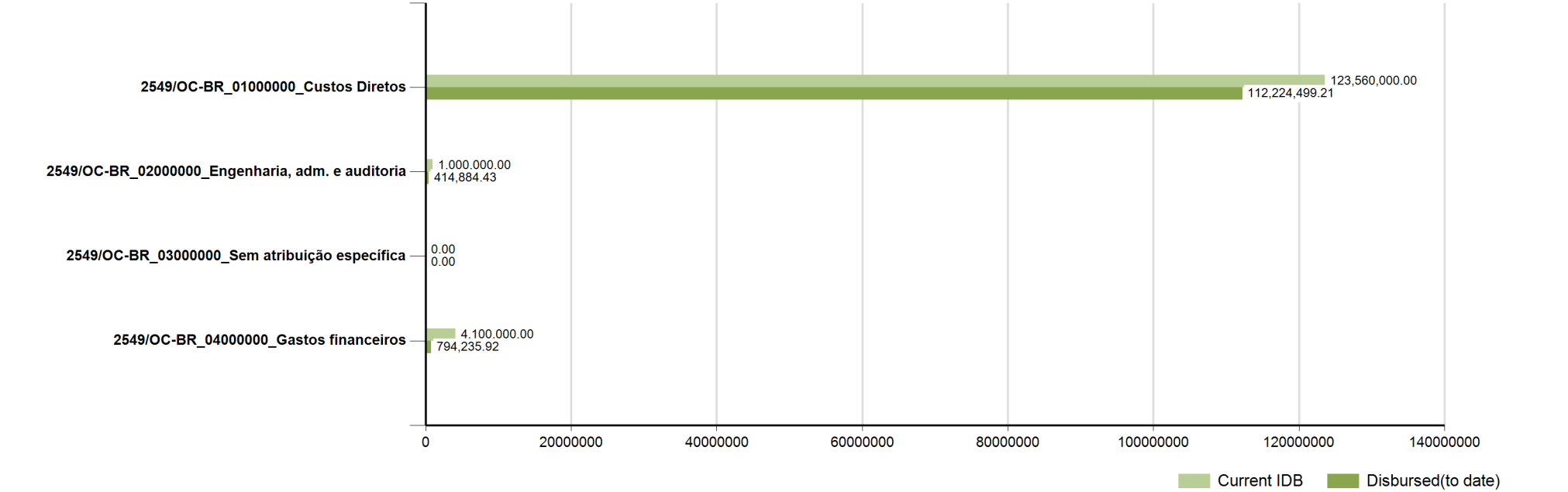
### Environmental and Social Safeguards

Main Operation	
Impacts Category:	B
Safeguard Performance Rating:	Satisfactory
Safeguard Performance Rating - Rationale:	The Borrower has demonstrated that has procedures and personnel to adequately manage E&S and H&S aspects related to the modernization works.

### 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 Capacidade de geração original das usinas restituída e a vida útil ampliada.							
Observation:								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
1.1 Energia gerada (Megawatt medio - UHE Furnas e LCB)		MW Medio	982.60	2005	Medido por FURNAS anualment e.		P	1,023.00
	P(a)						1,023.00	
	A							
Outcome:	2 Disponibilidade das usinas aumentadas.							
Observation:								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
2.1 Taxa equivalente de indisponibilidad e forçada - TEIF mensal		Percentual	2.53	2005	Calculado pelo ONS (Operador Nacional do Sistema) mensalme nte.	Meta para cada mês de 2015.	P	2.51
	P(a)						2.51	
	A							
2.2 Taxa equivalente de indisponibilidad e programada - TEIP mensal		Percentual	8.09	2005	Calculado pelo ONS (Operador Nacional do Sistema) mensalme nte.	Meta para cada mês de 2015.	P	4.00
	P(a)						4.00	
	A							
2.3 Índice de disponibilidade - ID mensal		Percentual	89.58	2005	Calculado pelo ONS (Operador Nacional do Sistema) mensalme nte.	Meta para cada mês de 2015.	P	93.50
	P(a)						93.50	
	A							
Outcome:	3 Eficiência operativa das usinas aumentada							
Observation:								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
3.1 Custo de operação e manutenção		R\$/MWh	2.19	2005	Medido por FURNAS anualment e.		P	1.91
	P(a)						1.91	
	A							

 RF - RF Indicator

 SI - Sector Indicator

 CI - Country Indicator

 PG - Pro-Gender

 PE - Pro-Ethnicity

## Outputs: Annual Physical and Financial Progress

Custos Diretos		Physical Progress			Financial Progress		
Outputs	Unit of Measure	2014		EOP	2014		EOP
Unidades Geradoras Reabilitadas da UHE Furnas	Unidade Geradora	P	2.00	5.00	P	16,417,000.00	76,635,000.00
		P(a)	2.00	4.00	P(a)	16,417,000.00	67,598,000.00
		A	0.00	2.00	A	8,268,000.00	58,424,000.00
Unidades Geradoras Reabilitadas da UHE LCB	Unidade Geradora	P		3.00	P		51,814,000.00
		P(a)		3.00	P(a)		42,814,000.00
		A		3.00	A	1,476,000.00	44,290,000.00

Other Cost			2014	Cost
UHE Furnas - Engenharia e Supervisão	P			\$5,050,000.00
	P(a)			\$5,050,000.00
	A			\$5,050,000.00
UHE LCB - Engenharia e Supervisão	P			\$4,571,000.00
	P(a)			\$4,571,000.00
	A			\$4,571,000.00
Administração	P		\$400,000.00	\$1,450,000.00
	P(a)		\$400,000.00	\$1,101,000.00
	A		\$0.00	\$419,000.00
Auditoria Externa	P			\$200,000.00
	P(a)			\$200,000.00
	A			\$0.00
Avaliação intermediária e final	P			\$100,000.00
	P(a)			\$50,000.00
	A			\$0.00
Imprevistos	P			\$9,140,000.00
	P(a)			\$9,140,000.00
	A			\$9,140,000.00
Escalonamento	P			
	P(a)			\$0.00
	A			\$0.00
Juros, Comissão de Crédito e Inspeção	P		\$1,800,000.00	\$4,200,000.00
	P(a)		\$1,800,000.00	\$2,200,000.00
	A		\$600,000.00	\$600,000.00

Total Cost			2014	Total Cost
	P		\$18,617,000.00	\$153,160,000.00
	P(a)		\$18,617,000.00	\$124,451,000.00
	A		\$10,344,000.00	\$122,494,000.00

## 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.