



Operation Number: **BR-L1303**
Year- PMR Cycle: **First period Jan-Jun 2016**
Last Update: **10/5/2016**
PMR Validation Stage: **Validated by Chief of Operations**

Chief of Operations validation date: **10/18/2016**
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:	CEEE Generation and Transmission Project	Loan Number:	2813/OC-BR,BR-L1303
Executing Agency (EA):	CEEE-GT		
Team Leader:	Alarcon Rodriguez,Arturo Daniel	Sector/Subsector:	NEW POWER DISTRIBUTION & TRANSMISSION PROJECTS
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the Operations are closed)
Lending Instrument:	Investment Loan	Country:	BRAZIL
Borrower:	Companhia Estadual de Distribucao de Ene rgia Electrica	Convergence related Operation(s):	

Total Cost and Source

	Original IDB	Current Active IDB	Local Counterpart	Co-Financing/Country	Total operation cost - Original Estimate
BR-L1303	\$88,655,996.00	\$88,655,996.00	\$59,103,957.00		\$147,759,953.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BR-L1303	\$88,655,996.00	\$31,419,178.85	35.44%	\$57,236,817.15

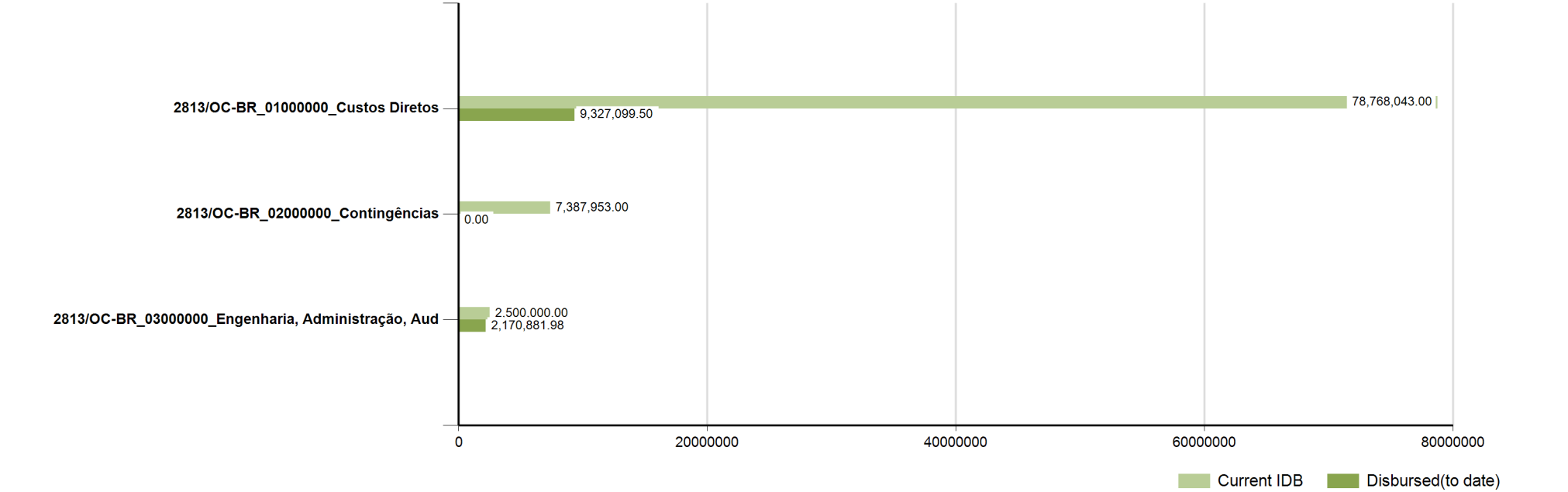
Environmental and Social Safeguards

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:	1 Redução na emissão anual de CO2								
Observation:									
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2018		EOP
1.1 Emissão de CO2 pela PCH Bugres evitada		tCO2/ano	0.00	2010	CEEE-GT. Metodologia UNFCCC: ACM002 http://cdm.unfccc.int/methodologies/PAmethodologies/approved		P		14,900.00
							P(a)	6,500.00	
							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 Capacidade de geração da PCH Ijuizinho II ampliada									
Observation:	Se mide la energia generada anualmente por la central, una vez ampliada.									
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2016		2018	EOP
1.1 Energia média generada pela PCH Bugres		GWh/ano	87.60	2015	Relatório anual CEEE-GT		P			70.00
							P(a)		118.26	118.26
							A			
Outcome:	2 Disponibilidade das usinas aumentadas									
Observation:										
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2016		2018	EOP
2.1 Taxa equivalente de indisponibilidad e forçada da UHE Itaúba - TEIfa		Percentual	2.59	2010	Calculado pelo ONS (Operador Nacional do Sistema) mensalmente.	Meta para cada mês de 2016	P			2.00
							P(a)		2.00	2.00
							A			
2.2 Taxa equivalente de indisponibilidad e forçada da UHE Passo Real - TEIfa		Percentual	2.56	2010	Calculado pelo ONS (Operador Nacional do Sistema) mensalmente.	Meta para cada mês de 2016.	P			2.00
							P(a)		2.00	2.00
							A			

2.3 Taxa equivalente de indisponibilidade e programada da UHE Itaúba - TEIP	Percentual	6.00	2010	Calculado pelo ONS (Operador Nacional do Sistema) mensalmente.	Meta para cada mês de 2016.	P			4.00
						P(a)		4.00	4.00
						A			
2.4 Taxa equivalente de indisponibilidade e programada da UHE Passo Real - TEIP	Percentual	12.00	2010	Calculado pelo ONS (Operador Nacional do Sistema) mensalmente.	Meta para cada mês de 2016.	P			6.00
						P(a)		6.00	6.00
						A			

Outome:	3 Custos de operação e manutenção das usinas reduzidos
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Observation:	
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Indicators	Flags*	Unit of Measure	Baseline	Baselin e Year	Means of verificatio n	Observ ations	2016	2018	EOP
3.1 Custo anual de operação e manutenção da UHE Itaúba		R\$/MWh	3.49	2010	Relatórios anuais da CEEE-GT		P		3.14
							P(a)	3.14	3.14
							A		
3.2 Custo anual de operação e manutenção da UHE Passo Real		R\$/MWh	5.97	2010	Relatórios anuais da CEEE-GT		P		5.37
							P(a)	5.37	5.37
							A		
3.2 Custo anual de operação e manutenção da UHE Capigui		R\$/MWh	73.46	2016			P		
							P(a)	51.61	
							A		
3.3 Custo anual de operação e manutenção da UHE Guarita		R\$/MWh	35.98	2016			P		
							P(a)	27.63	
							A		
3.4 Custo anual de operação e manutenção da UHE Ernestina		R\$/MWh	24.17	2016			P		
							P(a)	24.17	
							A		

Outcome:	4 Confiabilidade do sistema de transmissão aumentada
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Observation:	
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Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2016		2018	EOP
4.1 Número de transformadores com sobrecarga nas subestações de alta e média tensão		Percentual	25.50	2010	Relatório anual da CEEE-GT		P			17.00
							P(a)		13.50	17.00
							A			
4.2 Aumento do número de subestações com nível de tensão adequada		Percentual	80.00	2010	Relatório anual da CEEE-GT		P			89.00
							P(a)		91.00	89.00
							A			

Outcome:	5 Desempenho econômico do projeto melhorado									
Observation:										
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	2016		2018	EOP
							P			
5.1 Taxa interna de retorno econômico (TIRE)		Percentual	17.00	2010	A Taxa interna de retorno econômico (TIRE) será calculada na Avaliação Final do projeto.	A meta é obter valor superior a 12%.	P(a)		12.00	12.00
							A			

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Outputs: Annual Physical and Financial Progress

Componente I. Investimentos em geração		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP
Nuevas unidades generadores instaladas (ampliación central Bugres)	MW	P		15.00	P		17,327,070.00
		P(a)	0.00	13.00	P(a)	0.00	8,264,153.00
		A	0.00	0.00	A	0.00	0.00
Subestação (INATIVO)	MVA	P		20.00	P		2,425,790.00
		P(a)	0.00	2,425,790.00	P(a)	0.00	0.00
		A	0.00	0.00	A	0.00	0.00
Usinas Hidrelétricas modernizadas	Unidades	P		0.00	P		0.00
		P(a)		4.00	P(a)	0.00	8,390,000.00
		A	0.00	0.00	A	0.00	0.00
Linha de transmissão (INATIVO)	Quilômetro	P		6.00	P		1,039,620.00
		P(a)	0.00	1,039,620.00	P(a)	0.00	0.00
		A	0.00	0.00	A	0.00	0.00
Reservatório da usina (INATIVO)	unidade	P		0.61	P		13,861,670.00
		P(a)	0.00	13,861,670.00	P(a)	0.00	0.00
		A	0.00	0.00	A	0.00	0.00
Componente II. Investimentos em geração (Usinas)		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP
Unidade Geradora nº 4 da UHE Itaúba modernizada	Unidade Geradora	P		1.00	P		14,129,810.00
		P(a)	0.00	1.00	P(a)		15,649,349.31
		A	0.00	1.00	A	26,575.89	13,214,736.20
Unidade Geradora nº 2 da UHE Passo Real modernizada	Unidade Geradora	P		1.00	P		18,457,890.00
		P(a)	0.00	1.00	P(a)	1,049,443.88	18,747,917.26
		A	0.00	0.00	A	0.00	1,272,465.00
Componente III. Investimentos em Transmissão		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2016	EOP		2016	EOP
Subestações adequadas	Unidade	P		5.00	P		22,281,990.00
		P(a)	1.00	9.00	P(a)	5,133,609.02	27,455,177.37
		A	1.00	2.00	A	2,141,143.50	3,603,671.39
Subestações ampliadas	MVA	P		425.00	P		33,404,140.00
		P(a)	50.00	684.00	P(a)	2,441,624.34	48,818,013.07
		A	50.00	375.00	A	3,244,255.56	22,144,079.75
Linhas de transmissão 138 kV ampliadas	Electricity transmission and distribution lines (km)	P		46.50	P		8,593,790.00
		P(a)	42.00	61.50	P(a)	3,000,839.61	12,935,263.95
		A	42.00	46.50	A	3,133,493.24	7,309,007.92
Banco de capacitores 23 kV instalados	MVAr	P		18.00	P		1,316,310.00
		P(a)	0.00	18.00	P(a)	0.00	932,066.19
		A	0.00	18.00	A	0.00	919,472.00
Reator e Banco de Capacitor 230 kV instalados	MVAr	P		60.00	P		5,033,930.00
		P(a)	30.00	90.00	P(a)	82,920.38	6,928,866.75
		A	30.00	60.00	A	293,553.58	2,255,755.59
Other Cost					2016		Cost
Contingências				P			\$7,387,950.00
				P(a)	\$0.00		\$0.00
				A	\$0.00		\$0.00

Engenharia e Administração	P		\$2,077,000.00
	P(a)	\$37,723.66	\$2,159,908.04
	A	\$0.00	\$2,122,184.38
Auditoria Externa	P		\$223,000.00
	P(a)	\$46,394.35	\$222,998.72
	A	\$39,197.87	\$170,802.24
Avaliação intermediária e final	P		\$200,000.00
	P(a)	\$100,000.00	\$200,000.00
	A	\$35,868.00	\$35,868.00
Total Cost		2016	Total Cost
	P		\$147,759,960.00
	P(a)	\$11,892,555.24	\$150,703,713.66
	A	\$8,914,087.64	\$53,048,042.47

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.