



Operation Number: **BR-L1303**
Year- PMR Cycle: **First period Jan-Jun 2015**
Last Update: **12/28/2015**
PMR Validation Stage: **Validated by Representative**

Chief of Operations validation date: **10/14/2015**
Division Chief validation date: **11/06/2015**
Country Representative validation date: **11/08/2015**

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:	Larrea,Sylvia Virginia	Sector/Subsector:	NEW POWER DISTRIBUTION & TRANSMISSION PROJECTS
Operation Type:	Loan Operation	Overall Stage:	Disbursing (From eligibility until all the loans 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	\$0.00	\$147,759,953.00

Available Funds (US\$)

	Current IDB	Disb. Amount to Date	% Disbursed	Undisbursed Balance
BR-L1303	\$88,655,996.00	\$5,567,006.81	6.28%	\$83,088,989.19

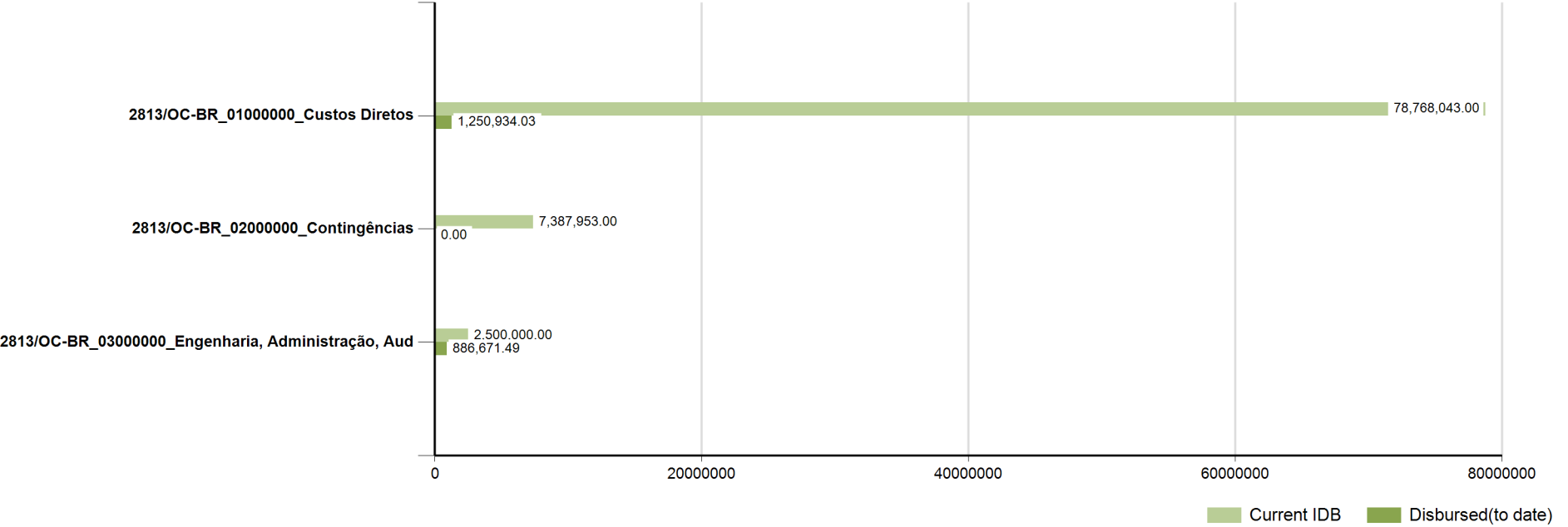
Environmental and Social Safeguards

Main Operation	
Impacts Category:	
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	EOP	
1.1 Emissão de CO2 pela PCH Ijuizinho II evitada		tCO2/ano	0.00	2010	CEEE-GT. Metodologia UNFCCC: ACM002 http://cdm.unfccc.int/methodologies/PAMethodologies/approved		P	14,900.00
							P(a)	14,900.00
							A	

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

Outcomes

Outcome:	1 Capacidade de geração da PCH Ijuizinho II ampliada							
Observation:								
Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
1.1 Energia média gerada pela PCH Ijuizinho II		GWh/ano	6.00	2010	Relatório anual CEEE-GT		P	70.00
							P(a)	70.00
							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 indisponibilidade 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
							A	
2.2 Taxa equivalente de indisponibilidade 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
							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
							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
							A	

Outcome:

3 Custos de operação e manutenção das usinas reduzidos

Observation:

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	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
							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
							A	

Outcome:

4 Confiabilidade do sistema de transmissão aumentada

Observation:

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	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)	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)	89.00
							A	

Outcome:

5 Desempenho econômico do projeto melhorado

Observation:

Indicators	Flags*	Unit of Measure	Baseline	Baseline Year	Means of verification	Observations	EOP	
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	12.00
							P(a)	12.00
							A	

 RF - RF Indicator

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Outputs: Annual Physical and Financial Progress

Ampliação da PCH Ijuizinho II		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2015	EOP		2015	EOP
Novas unidades geradoras instaladas totalizando 15 MW	MW	P	15.00	15.00	P	4,851,580.00	17,327,070.00
		P(a)	15.00	15.00	P(a)		17,327,070.00
		A	0.00	0.00	A	0.00	0.00
Subestação da PCH Ijuizinho II instalada	MVA	P	20.00	20.00	P	679,220.00	2,425,790.00
		P(a)	20.00	20.00	P(a)		2,425,790.00
		A	0.00	0.00	A	0.00	0.00
Linha de transmissão entre a PCH Ijuizinho II e o ponto de conexão na rede de transmissão	Quilômetro	P	6.00	6.00	P	291,090.00	1,039,620.00
		P(a)	6.00	6.00	P(a)		1,039,620.00
		A	0.00	0.00	A	0.00	0.00
Reservatório da usina construído (0,61 km2)	unidade	P	0.61	0.61	P	3,881,270.00	13,861,670.00
		P(a)	0.61	0.61	P(a)		13,861,670.00
		A	0.00	0.00	A	0.00	0.00
Reabilitação e Modernização das UHEs Itaúba e Passo Real		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2015	EOP		2015	EOP
Unidade Geradora nº 4 da UHE Itaúba modernizada	Unidade Geradora	P		1.00	P	335,230.00	14,129,810.00
		P(a)		1.00	P(a)	987,152.00	14,129,810.00
		A	0.00	1.00	A	63,764.62	13,206,422.62
Unidade Geradora nº 2 da UHE Passo Real modernizada	Unidade Geradora	P	1.00	1.00	P	3,691,580.00	18,457,890.00
		P(a)	1.00	1.00	P(a)	8,306,049.00	18,457,890.00
		A	0.00	0.00	A	0.00	1,272,465.00
Ampliação e Adequação da Rede de Transmissão		Physical Progress			Financial Progress		
Outputs	Unit of Measure		2015	EOP		2015	EOP
Subestações adequadas	Unidade	P	3.00	5.00	P	8,943,770.00	22,281,990.00
		P(a)	1.00	5.00	P(a)	6,366,807.00	22,281,990.00
		A	0.00	1.00	A	237,149.55	459,934.55
Subestações ampliadas	MVA	P	100.00	425.00	P		33,404,140.00
		P(a)		425.00	P(a)	1,650,564.00	33,404,140.00
		A	0.00	275.00	A	2,609,210.87	18,701,656.87
Linhas de transmissão 138 kV ampliadas	Kilometers	P		46.50	P		8,593,790.00
		P(a)		46.50	P(a)	783,445.00	8,593,790.00
		A	0.00	4.50	A	12,315.81	4,169,785.81
Banco de capacitores 23 kV instalados	MVAR	P		18.00	P		1,316,310.00
		P(a)		18.00	P(a)		919,472.00
		A	0.00	18.00	A	0.00	919,472.00
Reator e Banco de Capacitor 230 kV instalados	MVAR	P	30.00	60.00	P		5,033,930.00
		P(a)		60.00	P(a)	1,650,564.00	5,033,930.00
		A	0.00	30.00	A	24,457.00	1,169,194.00
Other Cost						2015	Cost
Contingências					P	\$4,432,770.00	\$7,387,950.00
					P(a)		\$7,784,788.00
					A	\$0.00	\$0.00
Engenharia e Administração					P	\$800,000.00	\$2,077,000.00
					P(a)	\$437,560.00	\$2,077,000.00
					A	\$342,870.03	\$1,921,577.03

Auditoria Externa	P	\$100,000.00	\$223,000.00
	P(a)	\$62,440.00	\$223,000.00
	A	\$0.00	\$95,019.00
Avaliação intermediária e final	P	\$100,000.00	\$200,000.00
	P(a)	\$50,000.00	\$200,000.00
	A	\$0.00	\$0.00
Total Cost		2015	Total Cost
	P	\$28,106,510.00	\$147,759,960.00
	P(a)	\$20,294,581.00	\$130,755,146.88
	A	\$3,289,767.88	\$41,915,526.88

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.