

Puerto Rico Electric Power Authority

Rate Design Model

Schedule M-3

26-Oct-16

Proposed Tariff: GRS

With Credits

Line	Description	Billing		Pres. Rates	Pres. Rev	Prop. Rates	Prop. Revenues	Increase / (Decrease) in \$
		Determinants	Units					
1	GRS							
2								
1	Fuel and Purchased Power							
2	Fuel Adjustment Factor	5,339,152,883	kWh	\$ 0.04029	\$ 215,099,541	\$ -	\$ -	\$ (215,099,541)
3	Purchase Power Factor	5,339,152,883	kWh	\$ 0.05037	\$ 268,951,342	\$ -	\$ -	\$ (268,951,342)
4								
5	Existing Charges							
6	Customer Charge	13,249,795	customer-month	\$ 3.00	\$ 39,749,384			\$ (39,749,384)
7	First 425 kWh	3,719,292,804	kWh	\$ 0.04350	\$ 161,789,237			\$ (161,789,237)
8	More than 425 kWh	1,602,307,787	kWh	\$ 0.04970	\$ 79,634,697			\$ (79,634,697)
9								
10	Proposed Charges							
11	CILT Charge	5,382,627,413	kWh			\$ 0.00303	\$ 16,288,489	\$ 16,288,489
12	Subsidy Charge	5,382,627,413	kWh			\$ 0.01020	\$ 54,904,838	\$ 54,904,838
13	Energy Charge - Unbundled Generation	5,382,627,413	kWh			\$ 0.08051	\$ 433,381,118	\$ 433,381,118
14	Energy Charge - Unbundled Transmission	5,382,627,413	kWh			\$ 0.00707	\$ 38,030,510	\$ 38,030,510
15	Energy Charge - Unbundled Distribution	5,382,627,413	kWh			\$ 0.05254	\$ 282,779,713	\$ 282,779,713
16	Net Metering Credit	43,474,530	kWh			\$ (0.14012)	\$ (6,091,470)	\$ (6,091,470)
17								
18	Subtotal				\$ 765,224,201		\$ 819,293,197	\$ 54,068,997
19	Adjustments							
20	Previous CILT				\$ 59,826,514			
21	Billing Adjustments				\$ 21,367,345			
22	Securitization						\$ 163,564,863	
	Credits							
	Direct Deposit				\$ (129,037)		\$ (129,037)	
	Life-Preserving Equipment				\$ (1,640,422)		\$ (1,640,422)	
	Fuel Oil Credit	429,650,328	kWh		\$ (9,629,056)	\$ 0.02241	\$ (9,629,056)	
23	Total				\$ 835,019,545		\$ 971,459,546	\$ 136,440,001

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Proposed Tariff: RH3

With Credits

Line	Description	Billing		Pres. Rates	Pres. Rev	Prop. Rates	Prop. Revenues	Increase / (Decrease) in \$
		Determinants	Units					
1	RH3							
2								
1	Fuel and Purchased Power							
2	Fuel Adjustment Factor	21,141,833	kWh	\$ 0.04028	\$ 851,572	\$ -	\$ -	\$ (851,572)
3	Purchase Power Factor	21,141,833	kWh	\$ 0.05060	\$ 1,069,694	\$ -	\$ -	\$ (1,069,694)
4								
5	Existing Charges							
6	Customer Charge	80,068	customer-month	\$ 2.00	\$ 160,135			\$ (160,135)
7	First 425 kWh	12,063,110	kWh	\$ 0.00100	\$ 12,063			\$ (12,063)
8	More than 425 kWh	9,078,723	kWh	\$ 0.03300	\$ 299,598			\$ (299,598)
9								
10	Proposed Charges							
11	First 425 kWh	12,063,110	kWh			\$ 0.10087	\$ 1,216,791	\$ 1,216,791
12	More than 425 kWh	9,078,723	kWh			\$ 0.14012	\$ 1,272,073	\$ 1,272,073
13	CILT Charge	21,141,833	kWh			\$ 0.00303	\$ 63,978	\$ 63,978
14								
15	Subtotal				\$ 2,393,062		\$ 2,552,842	\$ 159,780
16	Adjustments							
17	Previous CILT				\$ 237,460			
18	Billing Adjustments				\$ (5,275)			
19	Securitization						\$ 647,690	
	Credits							
	Life-Preserving Equipment				\$ (15,663)		\$ (15,663)	
	Fuel Oil Credit	16,448,611	kWh		\$ (368,636)	\$ 0.02241	\$ (368,636)	
20	Total				\$ 2,240,948		\$ 2,816,233	\$ 575,285

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26-Oct-16

Proposed Tariff: LRS

With Credits

Line	Description	Billing		Pres. Rates	Pres. Rev	Prop. Rates	Prop. Revenues	Increase / (Decrease) in \$
		Determinants	Units					
1	LRS							
2								
1	Fuel and Purchased Power							
2	Fuel Adjustment Factor	570,338,453	kWh	\$ 0.04027	\$ 22,969,958	\$ -	\$ -	\$ (22,969,958)
3	Purchase Power Factor	570,338,453	kWh	\$ 0.05043	\$ 28,761,289	\$ -	\$ -	\$ (28,761,289)
4								
5	Existing Charges							
6	Customer Charge	2,021,156	customer-month	\$ 3.00	\$ 6,063,468			\$ (6,063,468)
7	First 425 kWh	515,972,090	kWh	\$ 0.01460	\$ 7,533,193			\$ (7,533,193)
8	More than 425 kWh	54,223,679	kWh	\$ 0.04970	\$ 2,694,917			\$ (2,694,917)
9								
10	Proposed Charges							
11	First 425 kWh	515,972,090	kWh			\$ 0.12053	\$ 62,190,760	\$ 62,190,760
12	More than 425 kWh	54,223,679	kWh			\$ 0.14012	\$ 7,597,596	\$ 7,597,596
13	CILT Charge	570,732,839	kWh			\$ 0.00303	\$ 1,727,107	\$ 1,727,107
14								
15	Subtotal				\$ 68,022,824		\$ 71,515,463	\$ 3,492,639
16	Adjustments							
17	Previous CILT				\$ 6,393,750			
18	Billing Adjustments				\$ (146,027)			
19	Securitization						\$ 17,472,596	
	Credits							
	Direct Deposit				\$ (391)		\$ (391)	
	Life-Preserving Equipment				\$ (891,809)		\$ (891,809)	
	Fuel Oil Credit	385,218,551	kWh		\$ (8,633,279)	\$ 0.02241	\$ (8,633,279)	
20	Total				\$ 64,745,067		\$ 79,462,581	\$ 14,717,513

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Proposed Tariff: GSS

With Credits

Line	Description	Billing		Pres. Rates	Pres. Rev	Prop. Rates	Prop. Revenues	Increase / (Decrease) in \$
		Determinants	Units					
1	GSS							
2								
1	Fuel and Purchased Power							
2	Fuel Adjustment Factor	2,165,335,811	kWh	\$ 0.04029	\$ 87,235,026	\$ -	\$ -	\$ (87,235,026)
3	Purchase Power Factor	2,165,335,811	kWh	\$ 0.05043	\$ 109,194,330	\$ -	\$ -	\$ (109,194,330)
4								
5	Existing Charges							
6	Customer Charge	1,370,037	customer-month	\$ 5.00	\$ 6,850,187			\$ (6,850,187)
7	Non-Time Differentiated Electric Usage Charge	2,165,335,811	kWh	\$ 0.07670	\$ 166,081,257			\$ (166,081,257)
8								
9	Proposed Charges							
10	Customer (Fixed) Charge	1,370,037	customer-month			\$ 10.00	\$ 13,700,375	\$ 13,700,375
11	CILT Charge	2,168,388,045	kWh			\$ 0.00303	\$ 6,561,808	\$ 6,561,808
12	Subsidy Charge	2,168,388,045	kWh			\$ 0.01020	\$ 22,118,379	\$ 22,118,379
13	Energy Charge - Unbundled Generation	2,168,388,045	kWh			\$ 0.10846	\$ 235,187,768	\$ 235,187,768
14	Energy Charge - Unbundled Transmission	2,168,388,045	kWh			\$ 0.01101	\$ 23,869,154	\$ 23,869,154
15	Energy Charge - Unbundled Distribution	2,168,388,045	kWh			\$ 0.05434	\$ 117,833,784	\$ 117,833,784
16	Net Metering Credit	3,052,234	kWh			\$ (0.17381)	\$ (530,513)	\$ (530,513)
17								
18	Subtotal				\$ 369,360,800		\$ 418,740,753	\$ 49,379,953
19	Adjustments							
20	Previous CILT				\$ 24,277,786			
21	Billing Adjustments				\$ 11,393,838			
22	Securitization						\$ 65,688,838	
	Credits							
	Churches and Social Welfare				\$ (1,527,637)		\$ (1,527,637)	
	Hotels				\$ (58,784)		\$ (58,784)	
	Condo Common Areas				\$ (1,199,387)		\$ (1,199,387)	
	Downtown Small Businesses				\$ (1,775)		\$ (1,775)	
23	Total				\$ 402,244,842		\$ 481,642,009	\$ 79,397,168

Puerto Rico Electric Power Authority

Rate Design Model

Schedule M-3

26-Oct-16

Proposed Tariff: GSP

With Credits

Line	Description	Billing		Pres. Rates	Pres. Rev	Prop. Rates	Prop. Revenues	Increase / (Decrease) in \$
		Determinants	Units					
1	GSP							
2								
1	Fuel and Purchased Power							
2	Fuel Adjustment Factor	4,497,869,634	kWh	\$ 0.03857	\$ 173,484,234	\$ -	\$ -	\$ (173,484,234)
3	Purchase Power Factor	4,497,869,634	kWh	\$ 0.04805	\$ 216,111,958	\$ -	\$ -	\$ (216,111,958)
4								
5	Existing Charges							
6	Customer Charge	127,956	customer-month	\$ 200.00	\$ 25,591,221			\$ (25,591,221)
7	First 300kWh per kW of max demand	3,261,193,964	kWh	\$ 0.03600	\$ 117,402,983			\$ (117,402,983)
8	More than 300kWh per kW of max demand	1,236,675,670	kWh	\$ 0.02800	\$ 34,626,919			\$ (34,626,919)
9	Demand Charge	15,206,243	kVA	\$ 8.10000	\$ 123,170,566			\$ (123,170,566)
10	Excess Demand Charge	1,782,991	kVA	\$ 10.00000	\$ 17,829,910			\$ (17,829,910)
11								
12	Proposed Charges							
13	Customer (Fixed) Charge	127,956	customer-month			\$ 200.00	\$ 25,591,221	\$ 25,591,221
14	Production Demand Charge	16,989,234	kVA			\$ 7.81132	\$ 132,708,282	\$ 132,708,282
15	Transmission Demand Charge	16,989,234	kVA			\$ 1.64890	\$ 28,013,624	\$ 28,013,624
16	Distribution Demand Charge	16,989,234	kVA			\$ 2.53978	\$ 43,148,898	\$ 43,148,898
17	Energy Charge - Gross kWh Sales	4,510,102,567	kWh			\$ 0.10999	\$ 496,074,335	\$ 496,074,335
18	CILT Charge	4,510,102,567	kWh			\$ 0.00303	\$ 13,648,122	\$ 13,648,122
19	Subsidy Charge	4,510,102,567	kWh			\$ 0.01020	\$ 46,004,754	\$ 46,004,754
20	Net Metering Credit	12,232,933	kWh			\$ (0.10999)	\$ (1,345,522)	\$ (1,345,522)
21								
22	Subtotal				\$ 708,217,791		\$ 783,843,715	\$ 75,625,924
23	Adjustments							
24	Previous CILT				\$ 48,152,338			
25	Billing Adjustments				\$ 4,700,332			
26	Securitization						\$ 137,374,679	
	Credits							
	Churches and Social Welfare				\$ (3,993,858)		\$ (3,993,858)	
	Hotels				\$ (4,008,555)		\$ (4,008,555)	
	Condo Common Areas				\$ (121,902)		\$ (121,902)	
27	Total				\$ 752,946,146		\$ 921,218,394	\$ 168,272,248

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Rate Design Model

Schedule M-3

26-Oct-16

Proposed Tariff: GST

With Credits

Line	Description	Billing		Pres. Rates	Pres. Rev	Prop. Rates	Prop. Revenues	Increase / (Decrease) in \$
		Determinants	Units					
1	GST							
2								
1	Fuel and Purchased Power							
2	Fuel Adjustment Factor	3,262,408,418	kWh	\$ 0.03493	\$ 113,963,946	\$ -	\$ -	\$ (113,963,946)
3	Purchase Power Factor	3,262,408,418	kWh	\$ 0.04374	\$ 142,689,058	\$ -	\$ -	\$ (142,689,058)
4								
5	Existing Charges							
6	Customer Charge	7,121	customer-month	\$ 450.00	\$ 3,204,649			\$ (3,204,649)
7	First 300kWh per kW of max demand	1,993,595,700	kWh	\$ 0.02800	\$ 55,820,680			\$ (55,820,680)
8	More than 300kWh per kW of max demand	1,268,812,718	kWh	\$ 0.02400	\$ 30,451,505			\$ (30,451,505)
9	Demand Charge	7,825,871	kVA	\$ 7.70000	\$ 60,259,208			\$ (60,259,208)
10	Excess Demand Charge	459,602	kVA	\$ 9.60000	\$ 4,412,178			\$ (4,412,178)
11								
12	Proposed Charges							
13	Customer (Fixed) Charge	7,121	customer-month			\$ 450.00	\$ 3,204,649	\$ 3,204,649
14	Production Demand Charge	8,285,473	kVA			\$ 7.81132	\$ 64,720,453	\$ 64,720,453
15	Transmission Demand Charge	8,285,473	kVA			\$ 1.64890	\$ 13,661,954	\$ 13,661,954
16	Energy Charge - Gross kWh Sales	3,273,533,474	kWh			\$ 0.09902	\$ 324,138,694	\$ 324,138,694
17	CILT Charge	3,273,533,474	kWh			\$ 0.00303	\$ 9,906,113	\$ 9,906,113
18	Subsidy Charge	3,273,533,474	kWh			\$ 0.01020	\$ 33,391,281	\$ 33,391,281
19	Net Metering Credit	11,125,056	kWh			\$ (0.09902)	\$ (1,101,581)	\$ (1,101,581)
20								
21	Subtotal				\$ 410,801,224		\$ 447,921,564	\$ 37,120,339
22	Adjustments							
23	Previous CILT				\$ 31,721,158			
24	Billing Adjustments				\$ (6,898,447)			
25	Securitization						\$ 99,369,413	
	Credits							
	Condo Common Areas				\$ (1,396,063)		\$ (1,396,063)	
26	Total				\$ 435,623,935		\$ 547,290,977	\$ 111,667,041