

**Attachment 1**  
**Puerto Rico Electric Power Authority**  
**Fuel Cost Adjustment Factor**  
**For the Month of August 2018**

Line No.	Item	Amount	Reference
1	<b>Calculation of Fuel Cost Adjustment Factor for August 2018</b>		
2			
3	Projected Cost per Barrel (\$/BBL)	\$ 71.715028	Attachment 3, L76
4	Cost per Barrel - Two Months Previous (\$/BBL)	\$ 74.812162	Attachment 5
5	Applicable Fuel Cost (\$/BBL)	\$ 73.263595	(L3+L4)/2
6	Estimated Fuel Consumption - Equiv. Barrels	1,562,209.65	Attachment 3, L74
7	AdjustmentC for actual use vs billing for 2 previous months (\$) - June 2018	\$ 20,208,355.41	Attachment 6, L14
8	Adjustment for the effect of Contribution in Lieu of Taxes to the Central Government	0.89	
9	Net Generation (MWh)	1,482,122.073	Attachment 3, L104
10	Estimated Barrels of Oil for Fuel Subsidy factor	908,271.30	Attachment 3, L74-L11
11			
12			
13	<b>Efficiency Factors</b>		
14	Secondary (%)	88.15%	Attachment 4, Net Efficiency Factors
15	Primary (%)	90.53%	Attachment 4, Net Efficiency Factors
16	Transmission (%)	96.61%	Attachment 4, Net Efficiency Factors
17	Bus Bar (%)	100.00%	Attachment 4, Net Efficiency Factors
18			
19			
20	<b>August 2018 FCC Factor per kWh per Voltage Levels</b>		
21	Secondary (\$/kWh)	\$ 0.115810	(L5*L6+L7)/(L8*L9*L14)
22	Primary (\$/kWh)	\$ 0.112766	(L5*L6+L7)/(L8*L9*L15)
23	Transmission (\$/kWh)	\$ 0.105669	(L5*L6+L7)/(L8*L9*L16)
24	Bus Bar (\$/kWh)	\$ 0.102087	(L5*L6+L7)/(L8*L9*L17)
25			
26	Oil Factor Subsidy up to \$30/BBL Oil (\$/kWh)	\$ 0.040813	(30*L10+L7)/(L8*L9*L14)
27	Oil Factor Subsidy up to \$18/BBL Oil (\$/kWh)	\$ 0.031440	(18*L10+L7)/(L8*L9*L14)

**Attachment 2**  
**Puerto Rico Electric Power Authority**  
**Purchased Power Cost Adjustment Factor**  
**For The Month of August 2018**

Line No.	Item	Amount	Reference
1	<b>Calculation of Purchased Power Adjustment Factor for August 2018</b>		
2			
3	Estimated Cost of Purchased Power (\$)	\$ 60,975,711.85	Attachment 3, L87+L99
4	Adjustment CE for actual use vs billing for 2 previous months (\$) - June 2018	\$ (3,097,022.91)	Attachment 6, L29
5	Adjustment for the effect of Contribution in Lieu of Taxes to the Central Government	0.89	
6	Net Generation (MWh)	1,482,122.07	Attachment 3, L104
7			
8			
9	<b>Efficiency Factors</b>		
10	Secondary (%)	88.15%	Attachment 4, Net Efficiency Factors
11	Primary (%)	90.53%	Attachment 4, Net Efficiency Factors
12	Transmission (%)	96.61%	Attachment 4, Net Efficiency Factors
13	Bus Bar (%)	100.00%	Attachment 4, Net Efficiency Factors
14			
15			
16	<b>August 2018 FCE Factor per kWh per Voltage Levels</b>		
17	Secondary (\$/kWh)	\$ 0.049776	(L3+L4)/(L5*L6*L10)
18	Primary (\$/kWh)	\$ 0.048468	(L3+L4)/(L5*L6*L11)
19	Transmission (\$/kWh)	\$ 0.045417	(L3+L4)/(L5*L6*L12)
20	Bus Bar (\$/kWh)	\$ 0.043878	(L3+L4)/(L5*L6*L13)

**Attachment 3**  
**Puerto Rico Electric Power Authority**  
**Fuel Cost Adjustment Factor**  
**For the Month of August 2018**  
**Projected Fuel and Purchased Power Expenses for the Month**

Line No.

1		BBL (000s)	267
2		MBTU (000s)	1,683
3		\$ (000s)	19,013
4	<i>AGUIRRE</i>	Residual	HANDLING
5			107
6			TOTAL \$ (000s)
7			19,120
8			\$/BBL
9			71.58
10			\$/MBTU
11			11.36
12			GWh
13			164
14		MCF	3,923,630
15		MBTU (000s)	4,120
16		Equivalent BBL (000s)	654
17	<i>COSTA SUR</i>	Gas Natural	TOTAL \$ (000s)
18			37,145
19			\$/BBL
20			56.80
21			\$/MBTU
22			9.02
23			GWh
24			413
25		BBL (000s)	143
26		MBTU (000s)	898
27		\$ (000s)	9,854
28	<i>PALO SECO</i>	Residual	HANDLING
29			57
30			TOTAL \$ (000s)
31			9,911
32			\$/BBL
33			69.51
34			\$/MBTU
35			11.03
36			GWh
37			89
38		BBL (000s)	76
39		MBTU (000s)	478
40		\$ (000s)	5,240
41	<i>SAN JUAN</i>	Residual	HANDLING
42			30
43			TOTAL \$ (000s)
44			5,271
45			\$/BBL
46			69.51
47			\$/MBTU
48			11.03
49			GWh
50			46
51		BBL (000s)	23
52		MBTU (000s)	129
53		\$ (000s)	2,223
54	<i>CICLO COMBINADO</i>	Destilado	HANDLING
55	<i>AGUIRRE</i>		9
56			TOTAL \$ (000s)
57			2,232
58			\$/BBL
59			96.01
60			\$/MBTU
61			17.32
62			GWh
63			11
64		BBL (000s)	6
65		MBTU (000s)	34
66		\$ (000s)	585
67	<i>TURBINAS DE COMBUSTION</i>	Destilado	HANDLING
68			2
69			TOTAL \$ (000s)
70			588
71			\$/BBL
72			96.01
73			\$/MBTU
74			17.32
75			GWh
76			2
77		BBL (000s)	7
78		MBTU (000s)	39
79		\$ (000s)	677
80	<i>CAMBALACHE</i>	Destilado	HANDLING
81			3
82			TOTAL \$ (000s)
83			680
84			\$/BBL
85			96.01
86			\$/MBTU
87			17.32
88			GWh
89			3
90		BBL (000s)	352
91		MBTU (000s)	1,949
92		\$ (000s)	33,614

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**Puerto Rico Electric Power Authority**  
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**For the Month of August 2018**  
**Projected Fuel and Purchased Power Expenses for the Month**

Line No.				
59	<i>REPOWERING SJ5&amp;6</i>	Destilado	HANDLING	141
60			TOTAL \$ (000s)	33,755
61			\$/BBL	96.01
62			\$/MBTU	17.32
63			GWh	246
64	<i>TURBINAS DE MAYAGÜEZ</i>	Destilado	BBL (000s)	35
65			MBTU (000s)	192
66			\$ (000s)	3,317
67			HANDLING	14
68			TOTAL \$ (000s)	3,331
69			\$/BBL	96.01
70			\$/MBTU	17.32
71			GWh	19
72	<i>SISTEMA TOTAL</i>		SUB-TOTAL \$ (000s)	112,034
73			<b>TOTAL \$ (000s)</b>	<b>112,034</b>
74			<b>Equivalent BBL (000s)</b>	<b>1,562</b>
75			MBTU (000s)	9,522
76			\$/BBL Equivalente	71.72
77			\$/MBTU	11.77
78			GWh	993
79			<i>HIDRO (MWHR)</i>	GWh
80		<i>TOTAL (MWHR)</i>	GWh	1,005
81	<i>COMPRA ENERGIA</i>	<i>EcoEléctrica</i>	\$	27,255
82			\$/MWH	124.93
83			GWHR	218
84		<i>AES</i>	\$	26,392
85			\$/MWH	85.44
86			GWHR	309
87		<i>Total Cogeneradores</i>	\$	53,647
88			\$/MWH	101.79
89			GWHR	527
90	<i>COMPRA ENERGIA RENOVABLE</i>	<i>Solar</i>	\$	2,416
91			\$/MWH	190.72
92			GWHR	13
93		<i>Wind</i>	\$	4,555
94			\$/MWH	161.59
95			GWHR	28
96		<i>LFG</i>	\$	357
97			\$/MWH	100.00
98			GWHR	4
99		<i>Total Renovables</i>	\$	7,328
100			\$/MWH	164.94
101			GWHR	44
102		Total Sistema	GWHR	1,577
103		Auxiliares	GWHR	95
104		Total Sistema Neto	GWHR	1,482

Attachment 4  
 Puerto Rico Electric Power Authority  
 Fuel Cost Adjustment Factor  
 For the Month of August 2018  
 Efficiency Factors

**DISTRIBUCIÓN DE LAS PÉRDIDAS  
 DETERMINACIÓN DE LAS EFICIENCIAS DEL SISTEMA  
 ACUMULACIÓN A 12 MESES A: JUNIO 18**

	TOTAL	BARRA	TRANSMISIÓN	PRIMARIA	SECUNDARIA	USO AUTORIDAD
VENTAS VOLT. SECUNDARIO	6,281,641,842	0	0	0	6,281,641,842	
USO AEE EN SECUNDARIA	7,310,891	0	0	0	0	7,310,891
SUB-TOTAL	6,288,952,733	0	0	0	6,281,641,842	7,310,891
<i>PÉRDIDAS EN SECUNDARIA</i>	170,075,874	0	0	0	169,878,161	197,713
VENTAS VOLT. PRIMARIO	3,289,231,469	0	0	3,289,231,469	0	0
USO AEE EN PRIMARIA	19,075,693	0	0	0	0	19,075,693
SUB-TOTAL	9,767,335,769	0	0	3,289,231,469	6,451,520,003	26,584,297
<i>PÉRDIDAS EN PRIMARIA</i>	655,538,700	0	0	220,758,104	432,996,381	1,784,216
VENTAS VOLT. TRANSMISIÓN	3,133,630,388	0	3,133,630,388	0	0	0
USO AEE EN TRANSMISIÓN	0	0	0	0	0	0
SUB-TOTAL	13,556,504,857	0	3,133,630,388	3,509,989,573	6,884,516,384	28,368,512
<i>PÉRDIDAS EN TRANSMISIÓN</i>	475,585,649	0	109,933,177	123,136,508	241,520,748	995,217
VENTAS EN LA BARRA	7,243,234	7,243,234	0	0	0	0
<i>GENERACIÓN NETA</i>	14,039,333,740	7,243,234	3,243,563,565	3,633,126,081	7,126,037,132	29,363,729
<b>EFICIENCIA NETA</b>		<b>100.00%</b>	<b>96.61%</b>	<b>90.53%</b>	<b>88.15%</b>	
<i>AUXILIARES</i>	617,659,865	318,666	142,700,435	159,839,221	313,509,687	1,291,856
GENERACION TOTAL	14,656,993,605	7,561,900	3,386,264,000	3,792,965,301	7,439,546,820	30,655,585
<b>EFICIENCIA TOTAL</b>		<b>95.79%</b>	<b>92.54%</b>	<b>86.72%</b>	<b>84.44%</b>	

Attachment 5  
 Puerto Rico Electric Power Authority  
 Fuel Cost Adjustment Factor  
 For the Month of August 2018  
 Actual Cost of Fuel for the two months previous

PUERTO RICO ELECTRIC POWER AUTHORITY  
 FUEL OIL CONSUMPTION REPORT  
 FOR THE MONTH  
 JUNE 30, 2018

	BARRELS	COST PER BARREL	AMOUNT
BEGINNING BALANCE	2,162,956.33		\$ 175,089,591.33
ADJUSTMENTS	(196.57) *		(\$ 86,240.03) *
INTEREST			
FUEL HEDGE			
MISC. SERVICES & INSPECTION FEES			\$ 1,292,437.15
EXCISE TAXES			\$ 1,297,975.56
RECEIPTS			
STEAM & GAS	1,117,955.34	\$ 86.93	\$ 97,186,531.69
NATURAL GAS	551,153.49	\$ 54.34	\$ 29,949,691.78
TOTAL RECEIPTS	1,669,108.83	\$ 76.17	\$ 127,136,223.47
SUBTOTAL	3,831,868.59	\$ 79.53	\$ 304,729,987.48
CONSUMPTION			
STEAM & GAS	1,207,302.84		\$ 100,983,048.35
NATURAL GAS	551,153.49		\$ 29,949,691.78
ADJ. TO CONSUMPTION	-		\$ 621,180.36
TOTAL RECEIPTS	1,758,456.33	\$ 74.81	\$ 131,553,920.49
ENDING BALANCE	2,073,412.26	\$ 83.52	\$ 173,176,066.99

Attachment 6  
 Puerto Rico Electric Power Authority  
 Fuel Cost Adjustment Factor  
 For the Month of August 2018  
 Reconciliation of Two Months Previous, in (\$000)

Line No.	FUEL ADJUSTMENT CLAUSE	Jun-18
1	<u>COSTS TO RECOVER</u>	
2	Fuel Cost (per Fuel Report, data from Fuels Office)	\$ 131,554
3	Authority Use	(404)
4	Shipping Cost (40 cents per barrel)	701
5	Fuel Cost before Revenue Requirement of CILT	\$ 131,851
6	Fuel Cost after 11% Revenue Requirement	\$ 148,147
7	<u>FUEL ADJUSTMENT REVENUES</u>	
8	CC&B Billing Reports	\$ 125,441
9	<b>Calculated Fuel adjustment for month</b>	<b>\$ 22,706</b>
10	<b>Calculated Fuel Adjustment (*0.89)</b>	<b>\$ 20,208</b>
11		
12		
13		
14	<b>Final Calculated Fuel Adjustment</b>	<b>\$ 20,208</b>
15		
16	<b>PURCHASED POWER CLAUSE</b>	
17	<u>COSTS TO RECOVER</u>	
18	Invoices from Eco/AES/Renewables + Renewable Energy Credits + Invoice Adjustments from previous months	\$ 49,512
19	Authority Use	\$ (150)
20	Purchased Power Cost before CILT Revenue Requirement	\$ 49,362
21	Purchased Power Cost after 11% Revenue Requirement	\$ 55,463
22	<u>PURCHASED POWER REVENUES</u>	
23	CC&B Billing Reports	\$ 58,943
24	<b>Calculated Purchased Power Adjustment for month</b>	<b>\$ (3,480)</b>
25	<b>Calculated Purchased Power Adjustment (*0.89)</b>	<b>\$ (3,097)</b>
26		
27		
28		
29	<b>Final Calculated Purchased Power Adjustment</b>	<b>\$ (3,097)</b>
30		
31		
32		
33	<b>Gross Production (MWh)</b>	<b>1,580</b>
34	<b>Total Consumption Billed (MWh)</b>	<b>1,280</b>

**Attachment 7**  
**Puerto Rico Electric Power Authority**  
**Fuel Cost Adjustment Factor**  
**For the Month of August 2018**  
**Bill Impacts**

Voltage Level	July 2018			August 2018		
	Fuel Adjustment Factors	Purchased Power Adjustment Factors	Total	Fuel Adjustment Factors	Purchased Power Adjustment Factors	Total
	\$/kWh			\$/kWh		
Secondary Distribution	0.103838	0.048807	0.152645	0.115810	0.049776	0.165586
Primary Distribution	0.099771	0.046895	0.146666	0.112766	0.048468	0.161234
Transmission	0.091759	0.043129	0.134888	0.105669	0.045417	0.151086
Bus Bar	0.087868	0.041300	0.129168	0.102087	0.043878	0.145965

		July 2018 Billing (September 2017 Factors)		August 2018 Billing			
Rate and Voltage Level	Energy Consumption (kWh)	\$	\$/kWh	\$	\$/kWh	Difference	
GRS - Residential	800	\$ 172.64	\$ 0.2158	\$ 182.99	\$ 0.2287	\$ 10.35	6.0%
GSS - Secondary Small Commercial, Industrial	1,200	295.81	\$ 0.2465	\$ 311.33	\$ 0.2594	\$ 15.52	5.2%
GSP - Primary Medium Commercial, Industrial 250 kVA	91,800	\$ 19,961.82	\$ 0.2174	\$ 21,299.16	\$ 0.2320	\$ 1,337.34	6.7%
GST - Transmission Large Commercial, Industrial 1,500 kVA	550,800	\$ 108,200.40	\$ 0.1964	\$ 117,122.26	\$ 0.2126	\$ 8,921.86	8.2%