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January 19, 2018

**BY HAND DELIVERY**

Luly E. Massaro, Commission Clerk  
Rhode Island Public Utilities Commission  
89 Jefferson Boulevard  
Warwick, RI 02888

Re: Docket 4764 – In Re: Review of PPAs Under R.I.G.L. §39-26-1  
Responses to Office of Energy Resources Data Requests – OER 1-1

Dear Ms. Massaro:

On behalf of National Grid,<sup>1</sup> please find National Grid's response to Data Request OER 1-1.

Thank you for your attention to matter. If you have any questions, please contact me at (617) 951-1400, or Jennifer Brooks Hutchinson at 401-784-7685.

Very truly yours,



Jessica Buno Ralston

Enclosures

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid.

The Narragansett Electric Company d/b/a National Grid  
RIPUC Docket No. 4764  
In Re: Request for Approval of Eight Long-Term Renewable Energy Contracts  
Responses to Office of Energy Resources' First Set of Data Requests  
Issued on January 5, 2017

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OER 1-1

Request:

Please provide a breakdown and calculation of typical monthly bills that will be illustrative of the rate impacts of the proposed purchase power agreements across Rhode Island customer classes.

Response:

Please see Attachment OER 1-1 for typical bill impacts of the proposed power purchase agreements across the Company's customer classes. The illustrative bill impacts are based upon the illustrative adjustment to the Long Term Contracting Renewable Energy Recovery Factor of (\$0.00044) per kWh which the Company presented in its response to PUC 1-18.

Calculation of Monthly Typical Bill  
Total Bill Impact of Illustrative Adjustment to LTCRER Factor Associated with CERFP RI PPAs  
Rates Applicable to A-16 Rate Customers

Monthly kWh (a)	Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers (n)
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	
150	\$20.36	\$14.27	\$1.44	\$36.07	\$20.30	\$14.27	\$1.44	\$36.01	(\$0.06)	\$0.00	\$0.00	(\$0.06)	-0.2%	0.0%	0.0%	-0.2%	30.1%
300	\$34.14	\$28.55	\$2.61	\$65.30	\$34.01	\$28.55	\$2.61	\$65.17	(\$0.13)	\$0.00	\$0.00	(\$0.13)	-0.2%	0.0%	0.0%	-0.2%	12.9%
400	\$43.32	\$38.06	\$3.39	\$84.77	\$43.15	\$38.06	\$3.38	\$84.59	(\$0.17)	\$0.00	(\$0.01)	(\$0.18)	-0.2%	0.0%	0.0%	-0.2%	11.6%
500	\$52.51	\$47.58	\$4.17	\$104.26	\$52.29	\$47.58	\$4.16	\$104.03	(\$0.22)	\$0.00	(\$0.01)	(\$0.23)	-0.2%	0.0%	0.0%	-0.2%	9.6%
600	\$61.69	\$57.09	\$4.95	\$123.73	\$61.42	\$57.09	\$4.94	\$123.45	(\$0.27)	\$0.00	(\$0.01)	(\$0.28)	-0.2%	0.0%	0.0%	-0.2%	7.7%
700	\$70.87	\$66.61	\$5.73	\$143.21	\$70.56	\$66.61	\$5.72	\$142.89	(\$0.31)	\$0.00	(\$0.01)	(\$0.32)	-0.2%	0.0%	0.0%	-0.2%	19.0%
1,200	\$116.79	\$114.18	\$9.62	\$240.59	\$116.26	\$114.18	\$9.60	\$240.04	(\$0.53)	\$0.00	(\$0.02)	(\$0.55)	-0.2%	0.0%	0.0%	-0.2%	6.8%
2,000	\$190.25	\$190.30	\$15.86	\$396.41	\$189.37	\$190.30	\$15.82	\$395.49	(\$0.88)	\$0.00	(\$0.04)	(\$0.92)	-0.2%	0.0%	0.0%	-0.2%	2.3%

	Present Rates (o)	Proposed Rates (p)	Line Item on Bill
(1) Distribution Customer Charge	\$5.00	\$5.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81	LIHEAP Enhancement Charge
(3) Renewable Energy Growth Charge	\$0.78	\$0.78	RE Growth Program
(4) Distribution Charge (per kWh)	\$0.03664	\$0.03664	
(5) Operating & Maintenance Expense Charge	\$0.00163	\$0.00163	
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)	
(7) FY18 CapEx Factor Charge	\$0.00288	\$0.00288	
(8) CapEx Reconciliation Factor	(\$0.00135)	(\$0.00135)	Distribution Energy Charge
(9) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	
(10) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)	
(11) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(12) Long-term Contracting for Renewable Energy Charge	\$0.00622	<b>\$0.00578</b>	Renewable Energy Distribution Charge
(13) Net Metering Charge	\$0.00023	\$0.00023	
(14) Base Transmission Charge	\$0.03169	\$0.03169	
(15) Transmission Adjustment Factor	(\$0.00029)	(\$0.00029)	Transmission Charge
(16) Transmission Uncollectible Factor	\$0.00039	\$0.00039	
(17) Base Transition Charge	\$0.00009	\$0.00009	Transition Charge
(18) Transition Adjustment	\$0.00048	\$0.00048	
(19) Energy Efficiency Program Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(20) Standard Offer Service Base Charge	\$0.09792	\$0.09792	
(21) SOS Adjustment Factor	(\$0.00465)	(\$0.00465)	Supply Services Energy Charge
(22) SOS Administrative Cost Adjustment Factor	\$0.00148	\$0.00148	
(23) Renewable Energy Standard Charge	\$0.00040	\$0.00040	
<u>Line Item on Bill</u>			
(24) Customer Charge	\$5.00	\$5.00	
(25) LIHEAP Enhancement Charge	\$0.81	\$0.81	
(26) RE Growth Program	\$0.78	\$0.78	
(27) Transmission Charge	kWh x \$0.03179	\$0.03179	
(28) Distribution Energy Charge	kWh x \$0.04300	\$0.04300	
(29) Transition Charge	kWh x \$0.00057	\$0.00057	
(30) Energy Efficiency Programs	kWh x \$0.01002	\$0.01002	
(31) Renewable Energy Distribution Charge	kWh x \$0.00645	<b>\$0.00601</b>	
(32) Supply Services Energy Charge	kWh x \$0.09515	\$0.09515	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/11/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018  
Column (p): Lines (1) through (11) and (13) through (19): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/11/2018  
Line (12): Line (12) Column (a) + Illustrative Adjustment to Long Term Contracting Renewable Energy Recovery Factor (LTCRER) of (\$0.00044) per Line (7) of Attachment PUC 1-18  
Lines (20) through (23): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Calculation of Monthly Typical Bill  
Total Bill Impact of Illustrative Adjustment to LTCRER Factor Associated with CERFP RI PPAs  
Rates Applicable to A-60 Rate Customers

Monthly kWh (a)	Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers (n)
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	
150	\$13.34	\$14.27	\$1.15	\$28.76	\$13.28	\$14.27	\$1.15	\$28.70	(\$0.06)	\$0.00	\$0.00	(\$0.06)	-0.2%	0.0%	0.0%	-0.2%	32.1%
300	\$25.10	\$28.55	\$2.24	\$55.89	\$24.97	\$28.55	\$2.23	\$55.75	(\$0.13)	\$0.00	(\$0.01)	(\$0.14)	-0.2%	0.0%	0.0%	-0.3%	15.4%
400	\$32.93	\$38.06	\$2.96	\$73.95	\$32.76	\$38.06	\$2.95	\$73.77	(\$0.17)	\$0.00	(\$0.01)	(\$0.18)	-0.2%	0.0%	0.0%	-0.2%	12.5%
500	\$40.77	\$47.58	\$3.68	\$92.03	\$40.55	\$47.58	\$3.67	\$91.80	(\$0.22)	\$0.00	(\$0.01)	(\$0.23)	-0.2%	0.0%	0.0%	-0.2%	9.6%
600	\$48.61	\$57.09	\$4.40	\$110.10	\$48.34	\$57.09	\$4.39	\$109.82	(\$0.27)	\$0.00	(\$0.01)	(\$0.28)	-0.2%	0.0%	0.0%	-0.3%	7.2%
700	\$56.44	\$66.61	\$5.13	\$128.18	\$56.13	\$66.61	\$5.11	\$127.85	(\$0.31)	\$0.00	(\$0.02)	(\$0.33)	-0.2%	0.0%	0.0%	-0.3%	16.4%
1,200	\$95.62	\$114.18	\$8.74	\$218.54	\$95.09	\$114.18	\$8.72	\$217.99	(\$0.53)	\$0.00	(\$0.02)	(\$0.55)	-0.2%	0.0%	0.0%	-0.3%	5.2%
2,000	\$158.31	\$190.30	\$14.53	\$363.14	\$157.43	\$190.30	\$14.49	\$362.22	(\$0.88)	\$0.00	(\$0.04)	(\$0.92)	-0.2%	0.0%	0.0%	-0.3%	1.6%

	Present Rates (o)	Proposed Rates (p)	Line Item on Bill
(1) Distribution Customer Charge	\$0.00	\$0.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81	LIHEAP Enhancement Charge
(3) Renewable Energy Growth Charge	\$0.78	\$0.78	Renewable Energy Growth Charge
(4) Distribution Charge (per kWh)	\$0.02317	\$0.02317	
(5) Operating & Maintenance Expense Charge	\$0.00163	\$0.00163	
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)	
(7) FY18 CapEx Factor Charge	\$0.00288	\$0.00288	Distribution Energy Charge
(8) CapEx Reconciliation Factor	(\$0.00135)	(\$0.00135)	
(9) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	
(10) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)	
(11) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(12) Long-term Contracting for Renewable Energy Charge	\$0.00622	<b>\$0.00578</b>	Renewable Energy Distribution Charge
(13) Net Metering Charge	\$0.00023	\$0.00023	
(14) Base Transmission Charge	\$0.03169	\$0.03169	
(15) Transmission Adjustment Factor	(\$0.00029)	(\$0.00029)	Transmission Charge
(16) Transmission Uncollectible Factor	\$0.00039	\$0.00039	
(17) Base Transition Charge	\$0.00009	\$0.00009	Transition Charge
(18) Transition Adjustment	\$0.00048	\$0.00048	
(19) Energy Efficiency Program Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(20) Standard Offer Service Base Charge	\$0.09792	\$0.09792	
(21) SOS Adjustment Factor	(\$0.00465)	(\$0.00465)	Supply Services Energy Charge
(22) SOS Administrative Cost Adjustment Factor	\$0.00148	\$0.00148	
(23) Renewable Energy Standard Charge	\$0.00040	\$0.00040	
<u>Line Item on Bill</u>			
(24) Customer Charge	\$0.00	\$0.00	
(25) LIHEAP Enhancement Charge	\$0.81	\$0.81	
(26) RE Growth Program	\$0.78	\$0.78	
(27) Transmission Charge	\$0.03179	\$0.03179	
(28) Distribution Energy Charge	\$0.02953	\$0.02953	
(29) Transition Charge	\$0.00057	\$0.00057	
(30) Energy Efficiency Programs	\$0.01002	\$0.01002	
(31) Renewable Energy Distribution Charge	\$0.00645	<b>\$0.00601</b>	
(32) Supply Services Energy Charge	\$0.09515	\$0.09515	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/11/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Column (p): Lines (1) through (11) and (13) through (19): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/11/2018

Line (12): Line 12 Column (a) + Illustrative Adjustment to Long Term Contracting Renewable Energy Recovery Factor (LTCRER) of (\$0.00044) per Line (7) of Attachment PUC 1-18

Lines (20) through (23): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Calculation of Monthly Typical Bill  
 Total Bill Impact of Illustrative Adjustment to LTCRER Factor Associated with CERFP RI PPAs  
 Rates Applicable to C-06 Rate Customers

Monthly kWh (a)	Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill				Percentage of Customers (n)
	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)	
250	\$33.16	\$23.38	\$2.36	\$58.90	\$33.05	\$19.82	\$2.20	\$55.07	(\$0.11)	(\$3.56)	(\$0.16)	(\$3.83)	-0.2%	-6.0%	-0.3%	-6.5%	56.3%
500	\$54.24	\$46.75	\$4.21	\$105.20	\$54.02	\$39.63	\$3.90	\$97.55	(\$0.22)	(\$7.12)	(\$0.31)	(\$7.65)	-0.2%	-6.8%	-0.3%	-7.3%	16.9%
1,000	\$96.41	\$93.50	\$7.91	\$197.82	\$95.97	\$79.26	\$7.30	\$182.53	(\$0.44)	(\$14.24)	(\$0.61)	(\$15.29)	-0.2%	-7.2%	-0.3%	-7.7%	8.1%
1,500	\$138.58	\$140.25	\$11.62	\$290.45	\$137.92	\$118.89	\$10.70	\$267.51	(\$0.66)	(\$21.36)	(\$0.92)	(\$22.94)	-0.2%	-7.4%	-0.3%	-7.9%	5.0%
2,000	\$180.75	\$187.00	\$15.32	\$383.07	\$179.87	\$158.52	\$14.10	\$352.49	(\$0.88)	(\$28.48)	(\$1.22)	(\$30.58)	-0.2%	-7.4%	-0.3%	-8.0%	13.6%

	Present Rates (o)	Proposed Rates (p)	Line Item on Bill
(1) Distribution Customer Charge	\$10.00	\$10.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81	RE Growth Program
(3) Renewable Energy Growth Charge	\$1.26	\$1.26	LIHEAP Enhancement Charge
(4) Distribution Charge (per kWh)	\$0.03253	\$0.03253	
(5) Operating & Maintenance Expense Charge	\$0.00169	\$0.00169	
(6) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)	
(7) FY18 CapEx Factor Charge	\$0.00269	\$0.00269	
(8) CapEx Reconciliation Factor	(\$0.00119)	(\$0.00119)	Distribution Energy Charge
(9) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	
(10) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)	
(11) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(12) Long-term Contracting for Renewable Energy Charge	\$0.00622	\$0.00578	
(13) Net Metering Charge	\$0.00023	\$0.00023	Renewable Energy Distribution Charge
(14) Base Transmission Charge	\$0.03183	\$0.03183	
(15) Transmission Adjustment Factor	(\$0.00380)	(\$0.00380)	Transmission Charge
(16) Transmission Uncollectible Factor	\$0.00035	\$0.00035	
(17) Base Transition Charge	\$0.00009	\$0.00009	Transition Charge
(18) Transition Adjustment	\$0.00048	\$0.00048	
(19) Energy Efficiency Program Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(20) Standard Offer Service Base Charge	\$0.09492	\$0.08068	
(21) SOS Adjustment Factor	(\$0.00304)	(\$0.00304)	Supply Services Energy Charge
(22) SOS Administrative Cost Adjustment Factor	\$0.00122	\$0.00122	
(23) Renewable Energy Standard Charge	\$0.00040	\$0.00040	
<b>Line Item on Bill</b>			
(24) Customer Charge	\$10.00	\$10.00	
(25) LIHEAP Enhancement Charge	\$0.81	\$0.81	
(26) RE Growth Program	\$1.26	\$1.26	
(27) Transmission Charge	\$0.02838	\$0.02838	
(28) Distribution Energy Charge	\$0.03892	\$0.03892	
(29) Transition Charge	\$0.00057	\$0.00057	
(30) Energy Efficiency Programs	\$0.01002	\$0.01002	
(31) Renewable Energy Distribution Charge	\$0.00645	\$0.00601	
(32) Supply Services Energy Charge	\$0.09350	\$0.07926	

Column (o): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/11/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Column (p): Lines (1) through (11) and (13) through (19): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/11/2018

Line (12): Line (12) Column (a) + Illustrative Adjustment to Long Term Contracting Renewable Energy Recovery Factor (LTCRER) of (\$0.00044) per Line (7) of Attachment PUC 1-18

Lines (20) through (23): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Calculation of Monthly Typical Bill  
Total Bill Impact of Illustrative Adjustment to LTCRER Factor Associated with CERFP RI PPAs  
Rates Applicable to G-02 Rate Customers

kW	Monthly Power Hours Use (a) kWh		Present Rates				Proposed Rates				S Increase (Decrease)				Increase (Decrease) % of Total Bill			
			Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
20	200	4,000	\$434.74	\$374.00	\$33.70	\$842.44	\$432.98	\$317.04	\$31.25	\$781.27	(\$1.76)	(\$56.96)	(\$2.45)	(\$61.17)	-0.2%	-6.8%	-0.3%	-7.3%
50	200	10,000	\$948.16	\$935.00	\$78.47	\$1,961.63	\$943.76	\$792.60	\$72.35	\$1,808.71	(\$4.40)	(\$142.40)	(\$6.12)	(\$152.92)	-0.2%	-7.3%	-0.3%	-7.8%
100	200	20,000	\$1,803.86	\$1,870.00	\$153.08	\$3,826.94	\$1,795.06	\$1,585.20	\$140.84	\$3,521.10	(\$8.80)	(\$284.80)	(\$12.24)	(\$305.84)	-0.2%	-7.4%	-0.3%	-8.0%
150	200	30,000	\$2,659.56	\$2,805.00	\$227.69	\$5,692.25	\$2,646.36	\$2,377.80	\$209.34	\$5,233.50	(\$13.20)	(\$427.20)	(\$18.35)	(\$458.75)	-0.2%	-7.5%	-0.3%	-8.1%
20	300	6,000	\$506.98	\$561.00	\$44.50	\$1,112.48	\$504.34	\$475.56	\$40.83	\$1,020.73	(\$2.64)	(\$85.44)	(\$3.67)	(\$91.75)	-0.2%	-7.7%	-0.3%	-8.2%
50	300	15,000	\$1,128.76	\$1,402.50	\$105.47	\$2,636.73	\$1,122.16	\$1,188.90	\$96.29	\$2,407.35	(\$6.60)	(\$213.60)	(\$9.18)	(\$229.38)	-0.3%	-8.1%	-0.3%	-8.7%
100	300	30,000	\$2,165.06	\$2,805.00	\$207.09	\$5,177.15	\$2,151.86	\$2,377.80	\$188.74	\$4,718.40	(\$13.20)	(\$427.20)	(\$18.35)	(\$458.75)	-0.3%	-8.3%	-0.4%	-8.9%
150	300	45,000	\$3,201.36	\$4,207.50	\$308.70	\$7,717.56	\$3,181.56	\$3,566.70	\$281.18	\$7,029.44	(\$19.80)	(\$640.80)	(\$27.52)	(\$688.12)	-0.3%	-8.3%	-0.4%	-8.9%
20	400	8,000	\$579.22	\$748.00	\$55.30	\$1,382.52	\$575.70	\$634.08	\$50.41	\$1,260.19	(\$3.52)	(\$113.92)	(\$4.89)	(\$122.33)	-0.3%	-8.2%	-0.4%	-8.8%
50	400	20,000	\$1,309.36	\$1,870.00	\$132.47	\$3,311.83	\$1,300.56	\$1,585.20	\$120.24	\$3,006.00	(\$8.80)	(\$284.80)	(\$12.23)	(\$305.83)	-0.3%	-8.6%	-0.4%	-9.2%
100	400	40,000	\$2,526.26	\$3,740.00	\$261.09	\$6,527.35	\$2,508.66	\$3,170.40	\$236.63	\$5,915.69	(\$17.60)	(\$569.60)	(\$24.46)	(\$611.66)	-0.3%	-8.7%	-0.4%	-9.4%
150	400	60,000	\$3,743.16	\$5,610.00	\$389.72	\$9,742.88	\$3,716.76	\$4,755.60	\$353.02	\$8,825.38	(\$26.40)	(\$854.40)	(\$36.70)	(\$917.50)	-0.3%	-8.8%	-0.4%	-9.4%
20	500	10,000	\$651.46	\$935.00	\$66.10	\$1,652.56	\$647.06	\$792.60	\$59.99	\$1,499.65	(\$4.40)	(\$142.40)	(\$6.11)	(\$152.91)	-0.3%	-8.6%	-0.4%	-9.3%
50	500	25,000	\$1,489.96	\$2,337.50	\$159.48	\$3,986.94	\$1,478.96	\$1,981.50	\$144.19	\$3,604.65	(\$11.00)	(\$356.00)	(\$15.29)	(\$382.29)	-0.3%	-8.9%	-0.4%	-9.6%
100	500	50,000	\$2,887.46	\$4,675.00	\$315.10	\$7,877.56	\$2,865.46	\$3,963.00	\$284.52	\$7,112.98	(\$22.00)	(\$712.00)	(\$30.58)	(\$764.58)	-0.3%	-9.0%	-0.4%	-9.7%
150	500	75,000	\$4,284.96	\$7,012.50	\$470.73	\$11,768.19	\$4,251.96	\$5,944.50	\$424.85	\$10,621.31	(\$33.00)	(\$1,068.00)	(\$45.88)	(\$1,146.88)	-0.3%	-9.1%	-0.4%	-9.7%
20	600	12,000	\$723.70	\$1,122.00	\$76.90	\$1,922.60	\$718.42	\$951.12	\$69.56	\$1,739.10	(\$5.28)	(\$170.88)	(\$7.34)	(\$183.50)	-0.3%	-8.9%	-0.4%	-9.5%
50	600	30,000	\$1,670.56	\$2,805.00	\$186.48	\$4,662.04	\$1,657.36	\$2,377.80	\$168.13	\$4,203.29	(\$13.20)	(\$427.20)	(\$18.35)	(\$458.75)	-0.3%	-9.2%	-0.4%	-9.8%
100	600	60,000	\$3,248.66	\$5,610.00	\$369.11	\$9,227.77	\$3,222.26	\$4,755.60	\$332.41	\$8,310.27	(\$26.40)	(\$854.40)	(\$36.70)	(\$917.50)	-0.3%	-9.3%	-0.4%	-9.9%
150	600	90,000	\$4,826.76	\$8,415.00	\$551.74	\$13,793.50	\$4,787.16	\$7,133.40	\$496.69	\$12,417.25	(\$39.60)	(\$1,281.60)	(\$55.05)	(\$1,376.25)	-0.3%	-9.3%	-0.4%	-10.0%

	Present Rates (n)	Proposed Rates (o)	Line Item on Bill
(1) Distribution Customer Charge	\$135.00	\$135.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81	LIHEAP Enhancement Charge
(3) Renewable Energy Growth Charge	\$11.85	\$11.85	RE Growth Program
(4) Base Distribution Demand Charge (per kW > 10kW)	\$4.85	\$4.85	Distribution Demand Charge
(5) Distribution Charge (per kWh)	\$0.00468	\$0.00468	
(6) Operating & Maintenance Expense Charge	\$0.00122	\$0.00122	
(7) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)	
(8) FY18 CapEx Factor Demand Charge (per kW > 10kW)	\$0.67	\$0.67	
(9) CapEx Reconciliation Factor	(\$0.00098)	(\$0.00098)	Distribution Energy Charge
(10) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	
(11) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)	
(12) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(13) Long-term Contracting for Renewable Energy Charge	\$0.00622	\$0.00578	Renewable Energy Distribution Charge
(14) Net Metering Charge	\$0.00023	\$0.00023	
(15) Transmission Demand Charge	\$4.37	\$4.37	Transmission Demand Charge
(16) Base Transmission Charge	\$0.01269	\$0.01269	
(17) Transmission Adjustment Factor	(\$0.00205)	(\$0.00205)	Transmission Adjustment
(18) Transmission Uncollectible Factor	\$0.00032	\$0.00032	
(19) Base Transition Charge	\$0.00009	\$0.00009	
(20) Transition Adjustment	\$0.00048	\$0.00048	Transition Charge
(21) Energy Efficiency Program Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(22) Standard Offer Service Base Charge	\$0.09492	\$0.08068	
(23) SOS Adjustment Factor	(\$0.00304)	(\$0.00304)	Supply Services Energy Charge
(24) SOS Administrative Cost Adjustment Factor	\$0.00122	\$0.00122	
(25) Renewable Energy Standard Charge	\$0.00040	\$0.00040	
<u>Line Item on Bill</u>			
(26) Customer Charge	\$135.00	\$135.00	
(28) LIHEAP Enhancement Charge	\$0.81	\$0.81	
(27) RE Growth Program	\$11.85	\$11.85	
(29) Transmission Adjustment	\$0.01096	\$0.01096	
(30) Distribution Energy Charge	\$0.00812	\$0.00812	
(31) Distribution Demand Charge	\$5.52	\$5.52	
(32) Transmission Demand Charge	\$4.37	\$4.37	
(31) Transition Charge	\$0.00057	\$0.00057	
(32) Energy Efficiency Programs	\$0.01002	\$0.01002	
(33) Renewable Energy Distribution Charge	\$0.00645	\$0.00601	
(34) Supply Services Energy Charge	\$0.09350	\$0.07926	

Column (n): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/1/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Column (o): Lines (1) through (12) and (14) through (21): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/1/2018

Line (13): Line (13) Column (a) + Illustrative Adjustment to Long Term Contracting Renewable Energy Recovery Factor (LTCRER) of (\$0.00044) per Line (7) of Attachment PUC 1-18

Lines (22) through (25): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Calculation of Monthly Typical Bill  
 Total Bill Impact of Illustrative Adjustment to LTCRER Factor Associated with CERFP RI PPA's  
 Rates Applicable to G-32 Rate Customers

kW	Monthly Power Hours Use (a)	kWh	Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill			
			Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
200	200	40,000	\$3,341.47	\$3,772.40	\$296.41	\$7,410.28	\$3,323.87	\$3,772.40	\$295.68	\$7,391.95	(\$17.60)	\$0.00	(\$0.73)	(\$18.33)	-0.2%	0.0%	0.0%	-0.2%
750	200	150,000	\$12,446.17	\$14,146.50	\$1,108.03	\$27,700.70	\$12,380.17	\$14,146.50	\$1,105.28	\$27,631.95	(\$66.00)	\$0.00	(\$2.75)	(\$68.75)	-0.2%	0.0%	0.0%	-0.2%
1,000	200	200,000	\$16,584.67	\$18,862.00	\$1,476.94	\$36,923.61	\$16,496.67	\$18,862.00	\$1,473.28	\$36,831.95	(\$88.00)	\$0.00	(\$3.66)	(\$91.66)	-0.2%	0.0%	0.0%	-0.2%
1,500	200	300,000	\$24,861.67	\$28,293.00	\$2,214.78	\$55,369.45	\$24,729.67	\$28,293.00	\$2,209.28	\$55,231.95	(\$132.00)	\$0.00	(\$5.50)	(\$137.50)	-0.2%	0.0%	0.0%	-0.2%
2,500	200	500,000	\$41,415.67	\$47,155.00	\$3,690.44	\$92,261.11	\$41,195.67	\$47,155.00	\$3,681.28	\$92,031.95	(\$220.00)	\$0.00	(\$9.16)	(\$229.16)	-0.2%	0.0%	0.0%	-0.2%
200	300	60,000	\$4,086.87	\$5,658.60	\$406.06	\$10,151.53	\$4,060.47	\$5,658.60	\$404.96	\$10,124.03	(\$26.40)	\$0.00	(\$1.10)	(\$27.50)	-0.3%	0.0%	0.0%	-0.3%
750	300	225,000	\$15,241.42	\$21,219.75	\$1,519.22	\$37,980.39	\$15,142.42	\$21,219.75	\$1,515.09	\$37,877.26	(\$99.00)	\$0.00	(\$4.13)	(\$103.13)	-0.3%	0.0%	0.0%	-0.3%
1,000	300	300,000	\$20,311.67	\$28,293.00	\$2,025.19	\$50,629.86	\$20,179.67	\$28,293.00	\$2,019.69	\$50,492.36	(\$132.00)	\$0.00	(\$5.50)	(\$137.50)	-0.3%	0.0%	0.0%	-0.3%
1,500	300	450,000	\$30,452.17	\$42,439.50	\$3,037.15	\$75,928.82	\$30,254.17	\$42,439.50	\$3,028.90	\$75,722.57	(\$198.00)	\$0.00	(\$8.25)	(\$206.25)	-0.3%	0.0%	0.0%	-0.3%
2,500	300	750,000	\$50,733.17	\$70,732.50	\$5,061.07	\$126,526.74	\$50,403.17	\$70,732.50	\$5,047.32	\$126,182.99	(\$330.00)	\$0.00	(\$13.75)	(\$343.75)	-0.3%	0.0%	0.0%	-0.3%
200	400	80,000	\$4,832.27	\$7,544.80	\$515.71	\$12,892.78	\$4,797.07	\$7,544.80	\$514.24	\$12,856.11	(\$35.20)	\$0.00	(\$1.47)	(\$36.67)	-0.3%	0.0%	0.0%	-0.3%
750	400	300,000	\$18,036.67	\$28,293.00	\$1,930.40	\$48,260.07	\$17,904.67	\$28,293.00	\$1,924.90	\$48,122.57	(\$132.00)	\$0.00	(\$5.50)	(\$137.50)	-0.3%	0.0%	0.0%	-0.3%
1,000	400	400,000	\$24,038.67	\$37,724.00	\$2,573.44	\$64,336.11	\$23,862.67	\$37,724.00	\$2,566.11	\$64,152.78	(\$176.00)	\$0.00	(\$7.33)	(\$183.33)	-0.3%	0.0%	0.0%	-0.3%
1,500	400	600,000	\$36,042.67	\$56,586.00	\$3,859.53	\$96,488.20	\$35,778.67	\$56,586.00	\$3,848.53	\$96,213.20	(\$264.00)	\$0.00	(\$11.00)	(\$275.00)	-0.3%	0.0%	0.0%	-0.3%
2,500	400	1,000,000	\$60,050.67	\$94,310.00	\$6,431.70	\$160,792.37	\$59,610.67	\$94,310.00	\$6,413.36	\$160,334.03	(\$440.00)	\$0.00	(\$18.34)	(\$458.34)	-0.3%	0.0%	0.0%	-0.3%
200	500	100,000	\$5,577.67	\$9,431.00	\$625.36	\$15,634.03	\$5,533.67	\$9,431.00	\$623.53	\$15,588.20	(\$44.00)	\$0.00	(\$1.83)	(\$45.83)	-0.3%	0.0%	0.0%	-0.3%
750	500	375,000	\$20,831.92	\$35,366.25	\$2,341.59	\$58,539.76	\$20,666.92	\$35,366.25	\$2,334.72	\$58,367.89	(\$165.00)	\$0.00	(\$6.87)	(\$171.87)	-0.3%	0.0%	0.0%	-0.3%
1,000	500	500,000	\$27,765.67	\$47,155.00	\$3,121.69	\$78,042.36	\$27,545.67	\$47,155.00	\$3,112.53	\$77,813.20	(\$220.00)	\$0.00	(\$9.16)	(\$229.16)	-0.3%	0.0%	0.0%	-0.3%
1,500	500	750,000	\$41,633.17	\$70,732.50	\$4,681.90	\$117,047.57	\$41,303.17	\$70,732.50	\$4,668.15	\$116,703.82	(\$330.00)	\$0.00	(\$13.75)	(\$343.75)	-0.3%	0.0%	0.0%	-0.3%
2,500	500	1,250,000	\$69,368.17	\$117,887.50	\$7,802.32	\$195,057.99	\$68,818.17	\$117,887.50	\$7,779.40	\$194,485.07	(\$550.00)	\$0.00	(\$22.92)	(\$572.92)	-0.3%	0.0%	0.0%	-0.3%
200	600	120,000	\$6,323.07	\$11,317.20	\$735.01	\$18,375.28	\$6,270.27	\$11,317.20	\$732.81	\$18,320.28	(\$52.80)	\$0.00	(\$2.20)	(\$55.00)	-0.3%	0.0%	0.0%	-0.3%
750	600	450,000	\$23,627.17	\$42,439.50	\$2,752.78	\$68,819.45	\$23,429.17	\$42,439.50	\$2,744.53	\$68,613.20	(\$198.00)	\$0.00	(\$8.25)	(\$206.25)	-0.3%	0.0%	0.0%	-0.3%
1,000	600	600,000	\$31,492.67	\$56,586.00	\$3,669.94	\$91,748.61	\$31,228.67	\$56,586.00	\$3,658.94	\$91,473.61	(\$264.00)	\$0.00	(\$11.00)	(\$275.00)	-0.3%	0.0%	0.0%	-0.3%
1,500	600	900,000	\$47,223.67	\$84,879.00	\$5,504.28	\$137,606.95	\$46,827.67	\$84,879.00	\$5,487.78	\$137,194.45	(\$396.00)	\$0.00	(\$16.50)	(\$412.50)	-0.3%	0.0%	0.0%	-0.3%
2,500	600	1,500,000	\$78,685.67	\$141,465.00	\$9,172.95	\$229,323.62	\$78,025.67	\$141,465.00	\$9,145.45	\$228,636.12	(\$660.00)	\$0.00	(\$27.50)	(\$687.50)	-0.3%	0.0%	0.0%	-0.3%

	Present Rates (n)	Proposed Rates (o)	Line Item on Bill
(1) Distribution Customer Charge	\$825.00	\$825.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81	LIHEAP Enhancement Charge
(3) Renewable Energy Growth Charge	\$86.86	\$86.86	RE Growth Program
(4) Base Distribution Demand Charge (per kW > 200kW)	\$3.70	\$3.70	
(5) Distribution Charge (per kWh)	\$0.00551	\$0.00551	
(6) Operating & Maintenance Expense Charge	\$0.00079	\$0.00079	
(7) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)	
(8) FY18 CapEx Factor Demand Charge (per kW > 10kW)	\$0.71	\$0.71	
(9) CapEx Reconciliation Factor	(\$0.00050)	(\$0.00050)	Distribution Energy Charge
(10) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	
(11) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)	
(12) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(13) Long-term Contracting for Renewable Energy Charge	\$0.00622	<b>\$0.00578</b>	Renewable Energy Distribution Charge
(14) Net Metering Charge	\$0.00023	\$0.00023	
(15) Transmission Demand Charge	\$4.69	\$4.69	
(16) Base Transmission Charge	\$0.01172	\$0.01172	
(17) Transmission Adjustment Factor	(\$0.00079)	(\$0.00079)	Transmission Adjustment
(18) Transmission Uncollectible Factor	\$0.00030	\$0.00030	
(19) Base Transition Charge	\$0.00009	\$0.00009	Transition Charge
(20) Transition Adjustment	\$0.00048	\$0.00048	
(21) Energy Efficiency Program Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(22) Standard Offer Service Base Charge	\$0.09776	\$0.09776	
(23) SOS Adjustment Factor	(\$0.00507)	(\$0.00507)	
(24) SOS Administrative Cost Adjustment Factor	\$0.00122	\$0.00122	Supply Services Energy Charge
(25) Renewable Energy Standard Charge	\$0.00040	\$0.00040	
Line Item on Bill			
(26) Customer Charge	\$825.00	\$825.00	
(27) LIHEAP Enhancement Charge	\$0.81	\$0.81	
(28) RE Growth Program	\$86.86	\$86.86	
(29) Transmission Adjustment	\$0.01123	\$0.01123	
(30) Distribution Energy Charge	\$0.00900	\$0.00900	
(31) Distribution Demand Charge	\$4.41	\$4.41	
(32) Transmission Demand Charge	\$4.69	\$4.69	
(31) Transition Charge	\$0.00057	\$0.00057	
(32) Energy Efficiency Programs	\$0.01002	\$0.01002	
(33) Renewable Energy Distribution Charge	\$0.00645	<b>\$0.00601</b>	
(34) Supply Services Energy Charge	\$0.09431	\$0.09431	

Column (n): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/11/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Line (22): Average Industrial January -March 2018 Base Standard Offer Service Rate

Column (o): Lines (1) through (12) and (14) through (21): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/11/2018

Line (13): Line (13) Column (a) + Illustrative Adjustment to Long Term Contracting Renewable Energy Recovery Factor (LTCRER) of (\$0.00044) per Line (7) of Attachment PUC 1-18

Line (22): Average Industrial January -March 2018 Base Standard Offer Service Rate

Lines (23) through (25): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018

Calculation of Monthly Typical Bill  
Total Bill Impact of Illustrative Adjustment to LTCRER Factor Associated with CERFP RI PPAs  
Rates Applicable to G-62 Rate Customers

Monthly Power kW	Hours Use (a)	kWh	Present Rates				Proposed Rates				\$ Increase (Decrease)				Increase (Decrease) % of Total Bill			
			Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (b)	Supply Services (c)	GET (d)	Total (e)	Delivery Services (f)	Supply Services (g)	GET (h)	Total (i)	Delivery Services (j)	Supply Services (k)	GET (l)	Total (m)
			3,000	200	600000	\$61,888.89	\$56,586.00	\$4,936.45	\$123,411.34	\$61,624.89	\$56,586.00	\$4,925.45	\$123,136.34	(\$264.00)	\$0.00	(\$11.00)	(\$275.00)	-0.2%

	Present Rates (n)	Proposed Rates (o)	Line Item on Bill
(1) Distribution Customer Charge	\$17,000.00	\$17,000.00	Customer Charge
(2) LIHEAP Enhancement Charge	\$0.81	\$0.81	LIHEAP Enhancement Charge
(3) Renewable Energy Growth Charge	\$1,928.08	\$1,928.08	RE Growth Program
(4) Base Distribution Demand Charge per kW	\$2.99	\$2.99	Distribution Demand Charge
(5) Distribution Charge (per kWh)	\$0.00000	\$0.00000	
(6) Operating & Maintenance Expense Charge per KW	\$0.36	\$0.36	
(7) Operating & Maintenance Expense Reconciliation Factor	(\$0.00001)	(\$0.00001)	
(8) FY18 CapEx Factor Demand Charge per kW	\$0.55	\$0.55	
(9) CapEx Reconciliation Factor	(\$0.00038)	(\$0.00038)	Distribution Energy Charge
(10) Revenue Decoupling Adjustment Factor	\$0.00118	\$0.00118	
(11) Pension Adjustment Factor	(\$0.00085)	(\$0.00085)	
(12) Storm Fund Replenishment Factor	\$0.00288	\$0.00288	
(13) Long-term Contracting for Renewable Energy Charge	\$0.00622	<b>\$0.00578</b>	Renewable Energy Distribution Charge
(14) Net Metering Charge	\$0.00023	\$0.00023	
(15) Transmission Demand Charge	\$3.40	\$3.40	
(16) Base Transmission Charge	\$0.01426	\$0.01426	
(17) Transmission Adjustment Factor	\$0.00066	\$0.00066	Transmission Adjustment
(18) Transmission Uncollectible Factor	\$0.00032	\$0.00032	
(19) Base Transition Charge	\$0.00009	\$0.00009	Transition Charge
(20) Transition Adjustment	\$0.00048	\$0.00048	
(21) Energy Efficiency Program Charge	\$0.01002	\$0.01002	Energy Efficiency Programs
(22) Standard Offer Service Base Charge	\$0.09776	\$0.09776	
(23) SOS Adjustment Factor	(\$0.00507)	(\$0.00507)	
(24) SOS Administrative Cost Adjustment Factor	\$0.00122	\$0.00122	Supply Services Energy Charge
(25) Renewable Energy Standard Charge	\$0.00040	\$0.00040	
Line Item on Bill			
(26) Customer Charge	\$17,000.00	\$17,000.00	
(27) LIHEAP Enhancement Charge	\$0.81	\$0.81	
(28) RE Growth Program	\$1,928.08	\$1,928.08	
(29) Transmission Adjustment	\$0.01524	\$0.01524	
(30) Distribution Energy Charge	\$0.00282	\$0.00282	
(31) Distribution Demand Charge	\$3.90	\$3.90	
(32) Transmission Demand Charge	\$3.40	\$3.40	
(31) Transition Charge	\$0.00057	\$0.00057	
(32) Energy Efficiency Programs	\$0.01002	\$0.01002	
(33) Renewable Energy Distribution Charge	\$0.00645	<b>\$0.00601</b>	
(34) Supply Services Energy Charge	\$0.09431	\$0.09431	

Column (n): per Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095 effective 1/11/2018, and Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018  
Line (22): Average Industrial January -March 2018 Base Standard Offer Service Rate  
Column (o): Lines (1) through (12) and (14) through (21): Summary of Retail Delivery Service Rates, R.I.P.U.C. No. 2095, effective 1/11/2018  
Line (13): Line (13) Column (a) + Illustrative Adjustment to Long Term Contracting Renewable Energy Recovery Factor (LTCRER) of (\$0.00044) per Line (7) of Attachment PUC 1-18  
Line (22): Average Industrial January -March 2018 Base Standard Offer Service Rate  
Lines (23) through (25): Summary of Rates Standard Offer Service tariff, R.I.P.U.C. No. 2096, effective 1/1/2018