

**OSHAWA PUC NETWORKS INC.**

**Undertaking J1.2**

To update the rate impacts set out at Tables 20 and 21 on Exhibit I, Tab C, page 45, given the may updates and the June updates, and also 14 include for residential consumption at 400 kilowatt hours per month and 1,000.

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**Response:**

OPUCN understands the request as discussed at the hearing to have been to provide rate impacts updated to reflect the most current requested revenue requirement position of OPUCN (i.e. as of the update filed June 23, 2015, now Exhibit K1.2). In response, OPUCN has provided updated tables 18 through 21 of its prefiled evidence (Exhibit I, Tab C, page 45), which present both distribution rate and total bill impacts, on both a smoothed and unsmoothed basis, for each of the test years 2015 through 2019.

OPUCN notes that for the 400kwh and 1,000kwh residential customer analysis requested, the "smoothed" rates are not quite smooth. This is because OPUCN applied the smoothing calculations developed for the typical (800kwh) consumption level. It is not practical to do separate smoothing exercises using 400kwh and 1,000kwh usage. These alternative usage levels are not typical and do not fit with the typical load shape.

Table 18: Distribution Rate & Bill Impacts (inclusive of rate smoothing): \$

Customer Class		Year over Year \$ Change					2014-2019
		2015	2016	2017	2018	2019	
<b>Distribution Sub-Total</b> (includes DVA, Smart Meter rate riders & line loss on Cost of Power)							
Residential	800 kWh	\$1.71	\$1.81	\$1.98	\$2.11	\$2.30	\$9.91
Residential	400 kWh	\$2.14	\$0.89	\$1.06	\$1.35	\$1.26	\$6.70
Residential	1,000 kWh	\$1.49	\$2.27	\$2.44	\$2.49	\$2.82	\$11.51
GS Less Than 50 KW	2000 kWh	\$1.52	\$1.59	\$1.72	\$1.74	\$2.04	\$8.61
GS 50 To 999 KW	480 KW	\$72.18	\$75.16	\$82.18	\$80.54	\$83.29	\$393.35
GS 1,000 To 4,999 KW	919 KW	\$(331.59)	\$183.42	\$44.88	\$161.01	\$74.22	\$131.94
Large Use	7828 KW	\$(522.0)	\$1,409.1	\$338.1	\$1,212.8	\$559.6	\$2,997.6
Street Lighting	0.12/0.08 KW	\$0.23	\$(0.74)	\$0.07	\$0.26	\$0.11	\$(0.07)
Sentinel Lighting	0.4 KW	\$2.04	\$0.36	\$(1.62)	\$0.45	\$0.21	\$1.44
Unmetered Scattered Load	750 kWh	\$1.64	\$1.84	\$2.03	\$2.30	\$2.61	\$10.42
<b>Customer Class</b>							
Customer Class		Year over Year \$ Change					2014-2019
		2015	2016	2017	2018	2019	
<b>Total Bill (including OCEB)</b>							
Residential	800 kWh	\$2.59	\$1.84	\$2.02	\$2.14	\$2.34	\$10.93
Residential	400 kWh	\$2.60	\$0.91	\$1.08	\$1.38	\$1.27	\$7.23
Residential	1,000 kWh	\$2.59	\$2.31	\$2.48	\$2.53	\$2.87	\$12.78
GS Less Than 50 KW	2000 kWh	\$3.67	\$1.62	\$1.74	\$1.78	\$2.08	\$10.88
GS 50 To 999 KW	480 KW	\$226.39	\$76.44	\$83.57	\$81.91	\$84.71	\$553.02
GS 1,000 To 4,999 KW	919 KW	\$38.87	\$186.53	\$45.64	\$163.75	\$75.48	\$510.28
Large Use	7828 KW	\$2,800.6	\$1,433.1	\$343.9	\$1,233.4	\$569.1	\$6,380.1
Street Lighting	0.12/0.08 KW	\$(2.85)	\$(2.59)	\$0.08	\$0.27	\$0.10	\$(4.99)
Sentinel Lighting	0.4 KW	\$2.20	\$0.37	\$(1.65)	\$0.46	\$0.21	\$1.59
Unmetered Scattered Load	750 kWh	\$2.42	\$1.88	\$2.06	\$2.33	\$2.64	\$11.35

Table 19: Distribution Rate & Bill Impacts (inclusive of rate smoothing): %

Customer Class		Year over Year % Change					CAGR
		2015	2016	2017	2018	2019	2014-2019
<b>Sub-Total B - Distribution</b> (includes DVA, Smart Meter rate riders & line loss on Cost of Power)							
Residential	800 kWh	7.4%	7.3%	7.5%	7.4%	7.5%	7.4%
Residential	400 kWh	13.0%	4.8%	5.4%	6.6%	5.7%	7.1%
Residential	1,000 kWh	5.7%	8.2%	8.1%	7.7%	8.1%	7.5%
GS Less Than 50 KW	2000 kWh	2.8%	2.8%	3.0%	2.9%	3.3%	3.0%
GS 50 To 999 KW	480 KW	3.0%	3.1%	3.2%	3.1%	3.1%	3.1%
GS 1,000 To 4,999 KW	919 KW	(6.3)%	3.7%	0.9%	3.1%	1.4%	0.5%
Large Use	7828 KW	(1.8)%	4.9%	1.1%	4.0%	1.8%	2.0%
Street Lighting	0.12/0.08 KW	4.7%	(14.3)%	1.6%	5.8%	2.2%	(0.3)%
Sentinel Lighting	0.4 KW	27.5%	3.8%	(16.4)%	5.5%	2.4%	3.6%
Unmetered Scattered Load	750 kWh	9.8%	10.1%	10.1%	10.3%	10.6%	10.2%
<b>Sub-Total C - Total Bill (including OCEB)</b>							
Customer Class		Year over Year % Change					CAGR
		2015	2016	2017	2018	2019	2014-2019
Residential	800 kWh	2.1%	1.5%	1.6%	1.7%	1.8%	1.8%
Residential	400 kWh	4.0%	1.3%	1.6%	2.0%	1.8%	2.1%
Residential	1,000 kWh	1.8%	1.5%	1.6%	1.6%	1.8%	1.7%
GS Less Than 50 KW	2000 kWh	1.2%	0.5%	0.6%	0.6%	0.7%	0.7%
GS 50 To 999 KW	480 KW	1.2%	0.4%	0.4%	0.4%	0.4%	0.6%
GS 1,000 To 4,999 KW	919 KW	0.1%	0.3%	0.1%	0.3%	0.1%	0.2%
Large Use	7828 KW	0.6%	0.3%	0.1%	0.3%	0.1%	0.3%
Street Lighting	0.12/0.08 KW	(20.7)%	(23.7)%	0.9%	3.2%	1.1%	(8.6)%
Sentinel Lighting	0.4 KW	9.5%	1.5%	(6.4)%	1.9%	0.9%	1.3%
Unmetered Scattered Load	750 kWh	2.3%	1.7%	1.9%	2.1%	2.3%	2.0%

**Table 20: Unsmoothed Rate Impacts (updated at June 23, 2015)**

Customer Class		Year over Year % Change					CAGR
		2015	2016	2017	2018	2019	2014-2019
<b>Sub-Total B - Distribution</b> (includes DVA, Smart Meter rate riders & line loss on Cost of Power)							
Residential	800 kWh	19.2%	1.6%	1.4%	4.9%	2.1%	5.6%
Residential	400 kWh	21.2%	1.1%	1.3%	4.8%	2.0%	5.8%
Residential	1,000 kWh	18.6%	1.8%	1.4%	4.9%	2.1%	5.6%
GS Less Than 50 KW	2000 kWh	7.5%	(2.1)%	1.3%	4.7%	2.0%	2.6%
GS 50 To 999 KW	480 KW	4.8%	2.3%	0.7%	2.3%	1.1%	2.2%
GS 1,000 To 4,999 KW	919 KW	(6.3)%	3.7%	0.9%	3.1%	1.4%	0.5%
Large Use	7828 KW	(1.8)%	4.9%	1.1%	4.0%	1.8%	2.0%
Street Lighting	0.12/0.08 KW	4.7%	(14.3)%	1.6%	5.8%	2.2%	(0.3)%
Sentinel Lighting	0.4 KW	27.5%	3.8%	(16.4)%	5.5%	2.4%	3.6%
Unmetered Scattered Load	750 kWh	25.6%	4.5%	1.4%	4.9%	2.2%	7.4%

**Table 21: Smoothed Rate Impacts (updated at June 23, 2015)**

Customer Class		Year over Year % Change					CAGR
		2015	2016	2017	2018	2019	2014-2019
<b>Sub-Total B - Distribution</b> (includes DVA, Smart Meter rate riders & line loss on Cost of Power)							
Residential	800 kWh	7.4%	7.3%	7.5%	7.4%	7.5%	7.4%
Residential	400 kWh	13.0%	4.8%	5.4%	6.6%	5.7%	7.1%
Residential	1,000 kWh	5.7%	8.2%	8.1%	7.7%	8.1%	7.5%
GS Less Than 50 KW	2000 kWh	2.8%	2.8%	3.0%	2.9%	3.3%	3.0%
GS 50 To 999 KW	480 KW	3.0%	3.1%	3.2%	3.1%	3.1%	3.1%
GS 1,000 To 4,999 KW	919 KW	(6.3)%	3.7%	0.9%	3.1%	1.4%	0.5%
Large Use	7828 KW	(1.8)%	4.9%	1.1%	4.0%	1.8%	2.0%
Street Lighting	0.12/0.08 KW	4.7%	(14.3)%	1.6%	5.8%	2.2%	(0.3)%
Sentinel Lighting	0.4 KW	27.5%	3.8%	(16.4)%	5.5%	2.4%	3.6%
Unmetered Scattered Load	750 kWh	9.8%	10.1%	10.1%	10.3%	10.6%	10.2%