#### EB-2014-0096

### **Ontario Energy Board**

IN THE MATTER OF the Ontario Energy Board Act, 1998, S.O. 1998, c. 15, (Schedule B);

AND IN THE MATTER OF an application by Niagara Peninsula Energy Inc. for an order approving just and reasonable rates and other charges for electricity distribution to be effective May 1, 2015.

## VULNERABLE ENERGY CONSUMERS COALITION ("VECC") CROSS-EXAMINATION COMPENDIUM

March 13 2015

# NIAGARA PENINSULA ENERGY INC. 2015 RATE APPLICATION (EB-2014-0096) VECC CROSS EXAMINATION COMPENDIUM

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Date Filed:

September 23, 2014

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#### Table 8-2: Proposed Fixed / Variable Split

2015 Projected Distribution Revenue at Proposed Rates								
			Fixed	Variable		Variable		
Rate Class	Fixed Rate	Volumetric Rate	Revenue	Revenue	Fixed %	%		
Residential	19.96	0.0152	11,273,383	6,070,649	65.00%	35.00%		
General Service < 50 kW	46.39	0.0111	2,441,279	1,314,381	65.00%	35.00%		
General Service > 50 kW	159.22	3.7887	1,647,013	6,142,529	21.14%	78.86%		
Unmetered Scattered Load	20.14	0.0141	101,871	31,293	76.50%	23.50%		
Sentinel Lighting	15.26	19.0381	55,489	13,422	80.52%	19.48%		
Street Lighting	1.19	4.6237	185,594	97,949	65.46%	34.54%		

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**Table 8-3: Comparison of Fixed Rates** 

Comparison of Fixed Rates								
Rate Class	Current	At Existing Fixed/Variable Split	Proposed	Cost Allocation Model - Floor	Cost Allocation Model - Ceiling			
Residential	16.06	17.97	19.96	6.92	28.59			
General Service < 50 kW	37.79	39.13	46.39	11.71	38.26			
General Service > 50 kW	179.58	159.22	159.22	55.28	179.58			
Unmetered Scattered Load	19.53	20.14	20.14	0.29	19.53			
Sentinel Lighting	12.87	15.26	15.26	4.33	24.43			
Street Lighting	1.15	1.19	1.19	0.13	16.53			

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Further details of the proposed fixed charges for each rate class are given below.

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#### Residential

NPEI's current Board approved monthly service charge for the Residential class is \$16.06 per month, and the current volumetric charge is \$0.0161 per kWh. Based on 2015 projections at existing rates, the result is a fixed/variable split of 58.53% fixed revenue and 41.47% variable revenue. Applying the 58.53% fixed / 41.47% variable proportions to the proposed 2015 base revenue requirement for the Residential class would result in a monthly service charge of \$17.97.

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In March 2010 the Board undertook to review revenue decoupling for the province's electricity and natural gas distributors (EB-2010-0060 – Distribution Revenue Decoupling). Board staff released a paper by the Pacific Economic Group LLC, "Review of Distribution Revenue

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Decoupling Mechanisms" (the "PEG Report"). Staff prepared a Report to the Board summarizing the PEG Report and stakeholder comments. The Board suspended the initiative to complete the development of its Renewed Regulatory Framework for Electricity ("RRFE"). The Board indicated at the time it would restart the review once the RRFE had established the mechanisms for planning and performance. On April 3, 2014, the Board released its Draft Report on Rate Design for Electricity Distributors (EB-2012-0410), which proposes implementing a fixed monthly charge for distribution services for the Residential and General Service < 50 kW classes. The draft rate design report sets out three rate design proposals for revenue recovery. The Board has invited stakeholders to make comments on the proposals.

Section 2.11.2 of the Filing Requirements states: "While the policy consultation is still ongoing, distributors can propose a fixed monthly charge within their applications based on the proposed policy options as applicable, for the Board's consideration."

NPEI does not propose to adopt any of the three specific proposals described in the draft report for its 2015 rates. However, given that the Board has determined it will proceed with revenue decoupling for the low volume classes, NPEI submits that it is appropriate to begin increasing the fixed proportion of the Residential and General Service < 50 kW classes at this time. Therefore, NPEI proposes a 65% fixed / 35% variable split for the Residential class for 2015. This results in a Residential monthly service charge of \$19.96 and a Residential volumetric charge of \$0.0152 per kWh.

#### General Service < 50 kW

NPEI's current Board approved monthly service charge for the GS < 50 kW class is \$37.79 per month, and the current volumetric charge is \$0.0138 per kWh. Based on 2015 projections at existing rates, the result is a fixed/variable split of 54.83% fixed revenue and 45.17% variable revenue. Applying the 54.83% fixed / 45.17% variable proportions to the proposed 2015 base revenue requirement for the GS < 50 kW class results in a monthly service charge of \$39.13.

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#### **Table 8-6 Monthly Service Charge Information from Cost Allocation Model**

Table 8-6 NF Monthly Service Charge Information from Cost Allocation Model							
Rate Classification	2010 Monthly Service Charge Excluding Smart Meter Adder	Customer Unit Cost per month - Avoided Cost	Customer Unit Cost per month - Minimum System with PLCC Adjustment				
Residential	\$15.96	\$4.77	\$27.09				
GS < 50	\$47.27	\$11.34	\$39.75				
General Service 50 to 4999 kW	\$280.14	\$59.26	\$114.35				
Streetlight	\$0.32	\$0.16	\$20.01				
Sentinel Lights	\$1.10	\$0.18	\$21.65				
Unmetered Scattered Load	\$23.65	\$0.09	\$19.99				

Table 8-6 PW Monthly Service Charge Information from Cost Allocation Model							
Rate Classification	2010 Monthly Service Charge Excluding Smart Meter Adder	Customer Unit Cost per month - Avoided Cost	Customer Unit Cost per month - Minimum System with PLCC Adjustment				
Residential - Urban	\$10.04	\$4.77	\$27.09				
Residential - Suburban	\$10.65	\$4.77	\$27.09				
GS < 50	\$10.65	\$11.34	\$39.75				
General Service 50 to 4999 kW	\$22.75	\$59.26	\$114.35				
Streetlight	\$0.59	\$0.16	\$20.01				
Sentinel Lights	\$1.04	\$0.18	\$21.65				
Unmetered Scattered Load	\$5.18	\$0.09	\$19.99				

- **4** 5
- 6 Consistent with the Board's Decision in Norfolk Power's 2008 EDR CoS Application
- 7 (EB-2007-0753), NPEI submits that a monthly service charge ceiling has not been
- 8 established and the fixed/variable split should not be adjusted until Board
- 9 proceedings, discussed below, relating to distribution rate design are completed.
- In 2007, the Board had initiated a distribution rate review proceeding (EB-2007-0031,
- 11 referred to as the "Rate Review Proceeding"). One of the objectives of the Rate

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- 1 Review Proceeding was to explore what would be the appropriate fixed/variable split.
- 2 At the time, Norfolk Power submitted in its 2008 cost of service rate application that it
- 3 would not be appropriate to adjust the fixed/variable split until this proceeding was
- 4 completed and the Board accepted this position
- 5 The Board decided to defer completion of the Rate Review Proceeding while staff
- 6 conducted more research and expands the ability to model rate impacts. However,
- 7 On March 22, 2010, the Board notified stakeholders that it "is initiating a consultation
- 8 process to examine the revenue adjustment and cost recovery mechanisms that are
- 9 currently available to electricity and natural gas distributors to address revenue
- 10 erosion resulting from unforecasted changes in the volume of energy sold. Such
- 11 mechanisms have now been in place for some time, and the Board has determined
- that a review is appropriate at this time to enable the Board to confirm whether such
- 13 remain adequate and sufficient under current conditions." This is referred to as the
- 14 Board's "Distribution Revenue Decoupling" proceeding (EB-2010-0060).
- 15 As noted in the Executive Summary on the Review of Distribution Revenue
- 16 Decoupling Mechanisms ("the Review"), commissioned by the Board and undertaken
- 17 by Pacific Economics Group ("PEG") in the Distribution Revenue Decoupling
- 18 proceeding, "The cost of energy distribution and customer care is driven, in the short
- 19 run, chiefly by customer growth and is largely fixed with respect to system use." (page
- 20 5, paragraph 2).
- 21 In this application, NPEI submits that until "Distribution Revenue Decoupling"
- 22 proceeding (EB-2010-0060) is completed it would not be appropriate to change the
- 23 fixed/variable split. As a result, changes in monthly service charges are due solely to
- changes in the total base revenue requirement attributable to each customer class.
- 25 The following Table 8-7 provides NPEl's calculations of its proposed monthly fixed
- 26 distribution charges for the 2011 Test Year assuming the fixed/variable split
- 27 supporting the current approved rates.

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**Table 8-7 Proposed Monthly Service Charge** 

Table 8-7 Proposed Monthly Service Charge						
Rate Classification	Total Base Revenue Requirement	Fixed Revenue Proportion	Annualized Customers / Connections	Proposed Fixed Distribution Charge		
Residential	\$16,982,230	54.8%	562,798	\$16.55		
GS < 50	\$3,716,300	54.0%	52,228	\$38.45		
General Service 50 to 4999 kW	\$9,155,837	24.8%	10,180	\$222.81		
Streetlight	\$182,318	65.4%	148,892	\$0.80		
Sentinel Lights	\$55,565	86.9%	6,722	\$7.19		
Unmetered Scattered Load	\$143,333	77.4%	5,582	\$19.87		
Total	\$30 235 583					

#### **Proposed Volumetric Charges:**

6 The variable distribution charge is calculated by dividing the variable distribution

portion of the base revenue requirement by the appropriate 2011 Test Year usage,

8 kWh or kW, as the class charge determinant.

9 The following Table 8-8 provides NPEI's calculations of its proposed volumetric

distribution charges for the 2011 Test Year which maintains the same fixed/variable

split used in designing the current approved rates.

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#### **VECC**

#### 162. 8.0 -VECC -47

Reference: E8/T1/S1, pg. 3 - 5

- a)Please explain more fully how the proposed 65% fixed / 35% variable split for the Residential and GS<50 classes was established (i.e., why this particular ratio in each case?).
- b)What is rationale for proposing service charges for the GS<50 and USL classes that are above the ceiling rates calculated by the cost allocation model?

#### Response

a) NPEI's proposed movement toward a greater fixed proportion for the Residential and GS<50 kW classes is aimed at mitigating bill impacts upon future implementation of full revenue decoupling. The particular ratio of 65% fixed / 35% variable was selected for the Residential class since it results in a lower bill impact than the existing fixed / variable split for a typical Residential customer consuming an average of 800 kWh or more per month.

Please see the tables below which provides a summary of Residential monthly bill impacts for the existing fixed / variable split, NPEI's proposed 65% / 35% split, and 100% fixed, for the consumption levels requested in 8-VECC-49. The yellow highlights indicate where the proposed 65:35 split results in lower bill impacts than the existing fixed / variable split.

TOU May - October	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
		Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.18	6.78%	4.05	12.60%	13.45	41.77%
250	2.74	5.16%	4.18	7.89%	11.30	21.26%
500	3.69	4.20%	4.39	4.99%	7.73	8.78%
800	4.83	3.72%	4.64	3.57%	3.42	2.64%
1000	5.58	3.54%	4.79	3.04%	0.55	0.35%
1500	7.47	3.28%	5.21	2.26%	(6.61)	-2.91%
2000	9.36	3.15%	5.62	1.89%	(13.77)	-4.63%

TOU November - April	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
		Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.18	6.78%	4.05	12.58%	13.45	41.77%
250	2.74	5.16%	4.18	7.89%	11.30	21.26%
500	3.69	4.20%	4.39	4.99%	7.73	8.78%
800	4.82	3.88%	4.64	3.57%	3.42	2.64%
1000	5.58	3.54%	4.79	3.04%	0.55	0.35%
1500	7.47	3.28%	5.21	2.29%	(6.61)	-2.91%
2000	9.36	3.15%	5.62	1.89%	(13.77)	-4.63%

RPP May - October	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
		Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.18	6.93%	4.05	12.86%	13.45	42.71%
250	2.75	5.36%	4.18	8.14%	11.31	22.02%
500	3.69	4.37%	4.38	5.19%	7.72	9.14%
800	4.82	3.79%	4.63	3.64%	3.42	2.69%
1000	5.58	3.56%	4.80	3.06%	0.56	0.36%
1500	7.47	3.24%	5.21	2.26%	(6.61)	-2.87%
2000	9.36	3.07%	5.62	1.85%	(13.77)	-4.53%

RPP November - April	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
	-	Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.18	6.93%	4.05	12.86%	13.45	42.719
250	2.75	5.36%	4.18	8.14%	11.31	22.029
500	3.69	4.37%	4.38	5.19%	7.72	9.149
800	4.82	3.88%	4.63	3.73%	3.42	2.769
1000	5.58	3.70%	4.79	3.18%	0.55	0.369
1500	7.47	3.33%	5.21	2.32%	(6.61)	-2.959
2000	9.36	3.14%	5.62	1.88%	(13.77)	-4.629

NPEI is proposing the 65% fixed / 35% variable split for the GS<50 kW class to be consistent with the Residential class.

Please see the table below which shows typical monthly bill impacts for the existing fixed / variable split and NPEI's proposed 65% / 35% split, for a GS<50 kW customer consuming 2,000 kWh per month.

GS< 50

	TOU	Total Bill	Total Bill	Total Bill	Total Bill
	Usage	\$ Change	% Change	\$ Change	% Change
Г			Existing		
1		Existing	Fixed/Variable		
	kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split
	2000	3.15	1.00%	4.15	1.32%

RPP	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change
		Existing		
	Existing	Fixed/Variable		
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split
2000	3.15	0.99%	4.15	1.30%

b) NPEI is proposing a service charge that is above the ceiling rate for the GS<50 kW class due to movement towards revenue decoupling, and the associated bill impacts, as indicated in the response to part a) above.</p>

NPEI's proposal for a service charge that is above the ceiling rate for the Unmetered Scattered Load class is based on maintaining the existing fixed / variable split for this class.

#### 163. 8.0 -VECC -48

Reference: E8/T3/S1

a)Please update the proposed RTSR rates for 2015 to reflect the 2015 transmission rates recently proposed by Hydro One (EB-2014-0140).

#### Response

NPEI's RTSR Model has been updated to reflect the 2015 Uniform Transmission Rates ("UTRs") proposed by Hydro One in EB-2014-0140):

Network - \$3.80 / kW
Line Connection - \$0.86 / kW
Transformation Connection-\$2.01 / kW

The table below shows NPEI's RTSRs as originally filed, and as updated for the 2015 UTRs.

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#### 3. LOAD FORECAST, COST ALLOCATION AND RATE DESIGN

3.1 Are the proposed load and customer forecast, loss factors, CDM adjustments and resulting billing determinants appropriate? Are they an appropriate reflection of the energy and demand requirements of the applicant's customers?

#### Complete Settlement - Customer Forecast, load forecast, CDM and billing determinants

The Parties agree that the customer forecast, load forecast, CDM adjustment and resultant billing determinants set forth below are appropriate. For the 2015 test year, the Parties have agreed that a billed energy forecast of 1,208.063 GWh is appropriate. The Board's Appendix 2-IA, which can be found in Appendix 3.1-A, provides the agreed allocation across the various rate classes.

The Table below provides the customer / connection forecast for the 2015 Test Year.

#### **Customer/Connection Counts**

#### (No change from Originally Filed to After Settlement)

Class	2015 Test Year Originally Filed	2015 Test Year Filed with Interrogatories and Technical Conference	2015 Test Year Filed After Settlement
Residential	47,067	47,067	47,067
GS<50 kW	4,385	4,385	4,385
GS>50 kW	862	862	862
Unmetered Scattered Load (connections)	422	422	422
Sentinel Lights (connections)	303	303	303
Streetlighting (connections)	12,989	12,989	12,989
Totals	66,028	66,028	66,028

In response to Interrogatories, NPEI revised the CDM adjustments for 2013 and 2015, made a correction for the double counting of 2014 and 2015 CDM results, and updated the regression equation used to forecast the 2015 Test Year purchased energy. The table below provides the resulting 2015 weather normalized billed energy forecast by rate class.

#### 2015 Weather Normalized Billed kWh Forecast

Class	2015 Test Year Originally Filed	2015 Test Year Filed with Interrogatories and Technical Conference	2015 Test Year Filed After Settlement	
Residential	399,166,843	407,092,792	407,092,792	
GS<50 kW	118,740,733	121,037,129	121,037,129	
GS>50 kW	657,957,068	669,981,013	669,981,013	
Unmetered Scattered Load	2,215,047	2,215,047	2,215,047	
Sentinel Lights	259,459	259,459	259,459	
Streetlighting	7,477,962	7,477,962	7,477,962	
Totals	1,185,817,112	1,208,063,402	1,208,063,402	

The billed kW demand forecast for the 2015 Test Year is based on a three year average ratio of kW to kWh for the classes that are billed distribution revenue on a demand basis. The table below shows the 2015 Test Year kW forecast.

#### 2015 Billed kW Forecast

Class	2015 Test Year Originally Filed	2015 Test Year Filed with Interrogatories and Technical Conference	2015 Test Year Filed After Settlement
GS>50 kW	1,739,879	1,771,675	1,771,675
Sentinel Lights	705	705	705
Streetlighting	21,184	21,184	21,184
Totals	1,761,769	1,793,564	1,793,564

During the Interrogatory process, NPEI updated the CDM results that were incorporated into the weather normalized load forecasting model. The Parties agree that for the purposes of LRAMVA, the amount of CDM savings that are included in the 2015 Test Year Load Forecast is 15,433,325 kWh (on a net basis). The corresponding demand reduction for the GS>50 kW class that has been included in the 2015 Test Year Demand Forecast is 25,326 kW. The table below provides a summary of the CDM results that have been included in the 2015 Test Year forecasts.

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#### FIXED / VARIABLE REVENUE SPLITS

2015 Projected Revenue at Existing Rates	Base Revenue	% of Base Revenue by Class	Fixed Charge Revenue	Variable Revenue	Fixed %	Variable %	Fixed Charge	Volumetric Charge
Residential	15,624,862	54.51%	9,070,668	6,554,194	58,05%	41.95%	\$ 16.06	\$ 0.0161
General Service < 50 kW	3,659,015	12.76%	1,988,703	1,670,312	54.35%	45.65%	\$ 37.79	\$ 0.0138
General Service > 50 kW	8,920,210	31.12%	1,857,576	7,062,635	20.82%	79.18%	\$ 179.58	\$ 4.2400
Unmetered Scattered Load	129,135	0.45%	98,789	30,346	76.50%	23,50%	\$ 19.53	\$ 0.0137
Sentinel Lighting	58,115	0.20%	46,795	11,319	80.52%	19.48%	\$ 12.87	\$ 16,0553
Street Lighting	273,855	0.96%	179,253	94,602	65.46%	34.54%	\$ 1.15	\$ 4,4657
TOTAL	28,665,192	100.00%	13,241,783	15,423,409	46.19%	53.81%		

2015 Projected Revenue at Proposed Rates	Base Revenue	% of Base Revenue by Class	Fixed Charge Revenue	Variable Revenue	Fixed %	Variable %	Fixed Charge	Volumetric Charge
Residential	17,928,848	62.55%	11,653,751	6,275,097	65.00%	35.00%	\$ 20.63	\$ 0.0154
General Service < 50 kW	3,655,627	12.75%	1,986,861	1,668,766	54.35%	45.65%	\$ 37.76	\$ 0.0138
General Service > 50 kW	6,587,012	22.98%	1,058,338	5,528,674	16,07%	83.93%	\$ 102.31	\$ 3.3629
Unmetered Scattered Load	129,140	0.45%	98,793	30,347	76.50%	23.50%	\$ 19.53	\$ 0.0137
Sentinel Lighting	76,552	0.27%	61,641	14,910	80.52%	19.48%	\$ 16.95	\$ 21.1488
Street Lighting	288,013	1.00%	188,520	99,493	65.46%	34.54%	\$ 1.21	\$ 4.6966
TOTAL	28,665,191	100.00%	15,047,904	13,617,288	52.50%	47.50%		104-

As an update to IRR#162 8.0-VECC-47. the updated table below provides a summary of total bill impacts for the Residential class, based on three different rate design scenarios: maintain the existing fixed/variable split of 58% fixed / 42% variable, using the 65% fixed / 35% variable split proposed by NPEI and using a fixed charge of 100%.

**Residential Bill Impacts Summary** 

Niagara Peninsula Energy Inc. EB-2014-0096 Proposed Partial Settlement Agreement February 25, 2015 Page 29 of 37

TOU May - October	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
		Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.91	9.02%	4.82	14.99%	14.56	45.19%
250	3.59	6.76%	5.04	9.51%	12.42	23.38%
500	4.75	5.39%	5.40	6.14%	8.87	10.08%
800	6.12	4.71%	5.84	4.50%	4.60	3.55%
1000	7.03	4.45%	6.12	3.88%	1.75	1.11%
1500	9.33	4.10%	6.84	3.01%	(5.36)	-2.36%
2000	11.63	3.91%	7.56	2.54%	(12.47)	-4.20%

TOU November - April	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
-2-		Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.91	9.02%	4.82	14.97%	14.56	45.19%
250	3.59	6.76%	5.04	9.51%	12.42	23.38%
500	4.75	5.39%	5.40	6.14%	8.87	10.08%
800	6.12	4.71%	5.84	4.50%	4.60	3.55%
1000	7.03	4.45%	6.12	3.88%	1.75	1.11%
1500	9.33	4.10%	6.84	3.01%	(5.36)	-2.36%
2000	11.63	3.91%	7.56	2.54%	(12.47)	-4.20%

RPP May - October	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
		Existing				
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.91	9.22%	4.82	15.31%	14.56	46.21%
250	3.60	7.01%	5.04	9.82%	12.42	24.20%
500	4.74	5.61%	5.40	6.40%	8.86	10.50%
800	6.12	4.81%	5.83	4.58%	4.6	3.62%
1000	7.04	4.49%	6.12	3.90%	1.75	1.12%
1500	9.33	4.05%	6.84	2.97%	(5.36)	-2.33%
2000	11.63	3.82%	7.56	2.48%	(12.47)	-4.10%

RPP November - April	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill	Total Bill
Usage	\$ Change	% Change	\$ Change	% Change	\$ Change	% Change
77		Existing				.75-
	Existing	Fixed/Variable				
kWh / month	Fixed/Variable Split	Split	65:35 split	65:35 split	100% fixed	100% fixed
100	2.91	9.22%	4.82	15.31%	14.56	46.219
250	3.60	7.01%	5.04	9.82%	12.42	24.209
500	4.74	5.61%	5.40	6.40%	8.86	10.509
800	6.12	4.93%	5.83	4.70%	4.6	3.719
1000	7.03	4.66%	6.12	4.06%	1.75	1.169
1500	9.33	4.16%	6.84	3.05%	(5.36)	-2.399
2000	11.63	3.90%	7.56	2.53%	(12.47)	-4.18%

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	Billing	RTSR Model -	Originally Filed	RTSR Model - Upda 2015 U	
Network	Determinat	2015 Forecast Wholesale \$	2015 RTSR Rate	2015 Forecast Wholesale \$	2015 RTSR Rate
Residential	kWh	3,318,860	0.0076	3,304,272	0.0076
General Service Less Than 50 kW	kWh	903,753	0.0069	899,781	0.0069
General Service 50 to 4,999 kW	kW	4,892,913	2,8421	4,871,407	2.8297
Unmetered Scattered Load	kWh	16,360	0.0069	16,288	0.0069
Sentinel Lighting	kW	1,507	2.1043	1,501	2.0951
Street Lighting	kW	44,709	2.1486	44,512	2,1391
		9,178,102		9,137,760	

	Billing	RTSR Model -	Originally Filed	RTSR Model - Updated for Proposed 2015 UTRs		
Connection	Determinat	2015 Forecast Wholesale \$	2015 RTSR Rate	2015 Forecast Wholesale 5	2015 RTSR Rate	
Residential	kWh	2,252,405	0.0052	2,300,676	0.0053	
General Service Less Than 50 kW	kWh	596,993	0.0046	609,787	0.0047	
General Service 50 to 4,999 kW	kW	3,111,286	1.8073	3,177,964	1.8460	
Unmetered Scattered Load	kWh	10,807	0.0046	11,038	0.0047	
Sentinel Lighting	kW	1,082	1.5101	1,105	1.5425	
Street Lighting	kW	28,893	1.3885	29,512	1.4183	
		6,001,465		6,130,083		

#### 164. 8.0 -VECC -49

Reference: E8/T13/S1, Attachment 1

- a)Please provide Residential bill impact schedules based on the following monthly usage levels that include the updated RTSR rates from the preceding question:
  - •100 kWh
  - •250 kWh
  - ●500 kWh
  - •800 kWh
  - •1,000 kWh
  - •1,500 kWh and
  - •2,000 kWh
- b)Based on the most recent 12 months of billing data available, please provide a breakdown as to the number of residential customers that fall into the following ranges of monthly usage:
  - •0-100 kWh
  - •>100 250 kWh
  - •>500 800 kWh
  - •>800 1,000 kWh

- •>1,000 1,500 kWh
- •>1,500 2,000 kWh
- •>2,000 kWh

#### Response

- a)The bill impacts are included in Attachment #17. Please see the response to 8-VECC-47 above for the bill impacts summary table for the requested levels of consumption.
- b) The table below shows the breakdown of Residential customers into the given ranges of consumption.

Range of Average Monthly Consumption	Number of Residential Customers	% of Total
0 - 100 kWh	690	1.5%
100 - 250 kWh	2,800	6.0%
250 - 500 kWh	12,717	27.0%
500 - 800 kWh	15,943	33.9%
800 - 1000 kWh	6,221	13.2%
1000 - 1500 kWh	6,007	12.8%
1500 - 2000 kWh	1,641	3.5%
> 2000 kWh	1,026	2.2%
Total	47,045	100.0%