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1 Rate Design

2 **Ex.8/Tab 1/Sch.1 - Overview of Current Rates**

3 The existing rate schedule is presented in Appendix A of this Exhibit. The current rates were
4 approved as part of the proceeding EB-2015-0081. InnPower Corporation applied for
5 distribution rate adjustments pursuant to the IRM process. Notice of InnPower Corporation's
6 rate application was given through newspaper publication in InnPower Corporation's service
7 area, and advising how interested parties may intervene in the proceeding or comment on the
8 application. No intervention requests or comments were received.

9 The Board found that InnPower Corporation's rate application was filed in compliance with
10 Chapter 3 of the Board's Filing Requirements for Transmission and Distribution Applications
11 (the "Filing Requirements"), which outlines the application filing requirements for IRM
12 applications based on the policies in the Reports. InnPower Corporation's rates were approved
13 by the Board and rendered effective January 1, 2016 and will remain in effect until new rates are
14 approved.

15 The following matters were addressed in the decision.

- 16 • Rates were adjusted by a price escalator less a productivity factor less the stretch
17 factor. The Board established the price escalator to be 2.1%, the productivity factor
18 to be 0% and the stretch factor to be 0.30%, the resulting price cap index adjustment
19 was determined to be 1.80% (i.e. $2.1\% - (0\% + .30\%)$).
20
- 21 • Other matters addressed in the decision include:
 - 22 ○ Price Cap Incentive Rate-Setting
 - 23 ○ Regulatory Charges
 - 24 ○ Retail Transmission Service Rates
 - 25 ○ Review and Disposition of Group 1 DVA Accounts
 - 26 ○ Residential Rate Design
 - 27 ○ Implementation and Order
 - 28
 - 29

1 **2017 – 2021 Rates**

2 Table 8.1 – Table 8.5 below summarizes these revenue projections, showing the proportions
 3 attributable to fixed (monthly service) charges and variable (distribution volumetric) charges.
 4 Table 8.6 which follows the Revenues from Existing Fixed and Variable Charges shows the
 5 current customer classes. InnPower Corporation is not proposing any changes to its customer
 6 classes at this time.

7 *Table 8.1: 2017 Revenue Projections*

Rate Classification	Total Net Rev Requirement	Total Fixed Revenue	Total Variable Revenue	Fixed		Total
				Revenue Proportion	Variable Revenue Proportion	
Residential	9,685,595	7,716,597	1,968,998	79.67%	20.33%	100.0%
GS<50kW	987,959	609,885	378,074	61.73%	38.27%	100.0%
GS>50kW-4,999 kW	911,472	198,556	712,917	21.78%	78.22%	100.0%
Sentinel Lights	50,065	30,451	19,614	60.82%	39.18%	100.0%
Street Lights	258,830	190,432	68,398	73.57%	26.43%	100.0%
Unmetered Scattered Load	26,420	13,209	13,211	50.00%	50.00%	100.0%
Total	11,920,340	8,759,129	3,161,210	73.48%	26.52%	100.0%
Total Forecast Fixed/Variable Rates				73.48%	26.52%	100.0%

9 *Table 8.2: 2018 Revenue Projections*

Rate Classification	Total Net Rev Requirement	Total Fixed Revenue	Total Variable Revenue	Fixed		Total
				Revenue Proportion	Variable Revenue Proportion	
Residential	10,498,939	9,458,486	1,040,453	90.09%	9.91%	100.0%
GS<50kW	989,899	625,162	364,737	63.15%	36.85%	100.0%
GS>50kW-4,999 kW	1,038,391	214,618	800,346	20.67%	77.08%	97.7%
Sentinel Lights	51,384	31,392	19,992	61.09%	38.91%	100.0%
Street Lights	275,877	203,200	72,677	73.66%	26.34%	100.0%
Unmetered Scattered Load	28,269	13,574	14,695	48.02%	51.98%	100.0%
Total	12,882,759	10,546,433	2,312,899	81.86%	17.95%	99.8%
Total Forecast Fixed/Variable Rates				81.86%	17.95%	99.8%

11 *Table 8.3: 2019 Revenue Projections*

Rate Classification	Total Net Rev Requirement	Total Fixed Revenue	Total Variable Revenue	Fixed		Total
				Revenue Proportion	Variable Revenue Proportion	
Residential	10,997,826	10,997,826	-	100.00%	0.00%	100.0%
GS<50kW	1,023,317	665,092	358,224	64.99%	35.01%	100.0%
GS>50kW-4,999 kW	1,134,237	233,407	900,830	20.58%	79.42%	100.0%
Sentinel Lights	50,046	30,709	19,337	61.36%	38.64%	100.0%
Street Lights	254,878	187,943	66,936	73.74%	26.26%	100.0%
Unmetered Scattered Load	33,053	15,219	17,834	46.04%	53.96%	100.0%
Total	13,493,357	12,130,196	1,363,161	89.90%	10.10%	100.0%
Total Forecast Fixed/Variable Rates				89.90%	10.10%	100.0%

1 *Table 8.4: 2020 Revenue Projections*

Rate Classification	Total Net Rev Requirement	Total Fixed Revenue	Total Variable Revenue	Fixed Revenue Proportion	Variable Revenue Proportion	Total
Residential	11,489,029	11,489,029	-	100.00%	0.00%	100.0%
GS<50kW	994,618	664,460	330,159	66.81%	33.19%	100.0%
GS>50kW-4,999 kW	1,171,914	233,883	938,031	19.96%	80.04%	100.0%
Sentinel Lights	48,083	29,633	18,450	61.63%	38.37%	100.0%
Street Lights	249,473	184,174	65,300	73.82%	26.18%	100.0%
Unmetered Scattered Load	33,199	14,635	18,564	44.08%	55.92%	100.0%
Total	13,986,316	12,615,813	1,370,503	90.20%	9.80%	100.0%
Total Forecast Fixed/Variable Rates				90.20%	9.80%	100.0%

3 *Table 8.5: 2021 Revenue Projections*

Rate Classification	Total Net Rev Requirement	Total Fixed Revenue	Total Variable Revenue	Fixed Revenue Proportion	Variable Revenue Proportion	Total
Residential	11,930,571	11,930,571	-	100.00%	0.00%	100.0%
GS<50kW	964,813	660,743	304,070	68.48%	31.52%	100.0%
GS>50kW-4,999 kW	1,208,503	234,171	974,332	19.38%	80.62%	100.0%
Sentinel Lights	46,478	28,768	17,710	61.90%	38.10%	100.0%
Street Lights	270,852	200,193	70,659	73.91%	26.09%	100.0%
Unmetered Scattered Load	33,583	14,151	19,432	42.14%	57.86%	100.0%
Total	14,454,800	13,068,598	1,386,202	90.41%	9.59%	100.0%
Total Forecast Fixed/Variable Rates				90.41%	9.59%	100.0%

6 *Table 8.6: Customer Classes*

Customer Class Name	Existing	Proposed	Status	MSC Metric	Usage Metric
Residential	YES	YES	Continued	Customer	kWh
General Service < 50 kW	YES	YES	Continued	Customer	kWh
General Service > 50 to 4999 kW	YES	YES	Continued	Customer	kW
Sentinel Lighting	YES	YES	Continued	Connection	kW
Street Lighting	YES	YES	Continued	Connection	kW
Unmetered Scattered Load	YES	YES	Continued	Connection	kWh
microFIT/Net Metering	YES	YES	Continued	Customer	N/A

8 **MicroFIT/Net Metering**

9 InnPower Corporation is requesting a change to the microFIT Rate class to include Net Metering
 10 Accounts. InnPower Corporation is also requesting a change in the monthly service charge from \$5.40 to
 11 \$10.00 monthly. This change is consistent with the approved rates for Wasaga Distribution in case EB-
 12 2015-0107.

1 **Ex.8/Tab 1/Sch.2 - Rate Design Policy Consultation**

2

3 InnPower Corporation has reviewed and considered the OEB’s consultation on a fixed monthly
 4 charge for distribution services by which abolishing the kilowatt hour charge paid, the customer
 5 would pay a fixed amount to the local utility, no matter how much electricity is used.

6 InnPower Corporation proposed a 4 year transition to a 100% fixed rate for the Residential
 7 customer class in EB-2015-0081 which was approved. This application reflects the continuation
 8 of the transition to a fully fixed rate for this rate class.

9 **Table 8.7: Tab 15 IRM Rate Generator Model EB-2016-0081**

Price Escalator	1.60%	Productivity Factor	0.00%	# of Residential Customers	14,176	(last CoS Approved Billing Determinants)	
Choose Stretch Factor Group	III	Price Cap Index	1.30%	Billed kWh	148,148,872		
Associated Stretch Factor Value	0.30%			Rate Design Transition Years Left	4		

Rate Class	Current MFC	MFC Adjustment from R/C Model	Current Volumetric Charge	DVR Adjustment from R/C Model	Price Cap Index to be Applied to MFC and DVR	Proposed MFC	Proposed Volumetric Charge
RESIDENTIAL SERVICE CLASSIFICATION	20.45		0.0182		1.30%	24.73	0.0139
GENERAL SERVICE LESS THAN 50 KW SERVICE CLASSIFICATION	33.72		0.0082		1.30%	34.16	0.0083
GENERAL SERVICE 50 TO 4,999 KW SERVICE CLASSIFICATION	148.92		3.0582		1.30%	150.86	3.0980
UNMETERED SCATTERED LOAD SERVICE CLASSIFICATION	10.38		0.0174		1.30%	10.51	0.0176
SENTINEL LIGHTING SERVICE CLASSIFICATION	11.00		50.1152		1.30%	11.14	50.7667
STREET LIGHTING SERVICE CLASSIFICATION	5.62		38.8550		1.30%	5.69	39.3601
microFIT SERVICE CLASSIFICATION	5.40					5.40	

	Revenue from Rates	Current F/V Split	Decoupling MFC Split	Incremental Fixed Charge (\$/month/year)	New F/V Split	Adjusted Rates ¹	Revenue at New F/V Split
Rate Design Transition							
Current Residential Fixed Rate (inclusive of R/C adj.)	3,478,790	56.3%	10.9%	3.96	67.3%	24.41	4,152,434
Current Residential Variable Rate (inclusive of R/C adj.)	2,696,309	43.7%			32.7%	0.0137	2,029,640
	6,175,100						6,182,073

10

11

**Ex.8/Tab 1/Sch.3 - Comparison of Fixed and Variable Charges under
 Current and Proposed Rates**

The following tables reflect the proposed monthly service charge for each customer class and the resulting splits of fixed and variable charges.

Table 8.8: 2017 Fixed – Variable Split

Customer Class	Current Volumetric Split	Current Fixed Charge Split	Total	Fixed Rate Based on Current Fixed/Variable Revenue Proportions	2016 Rates From OEB Approved Tariff	Minimum System with PLCC Adjustment (Ceiling Fixed Charge From Cost Allocation Model)
Residential	30.49%	69.51%	100.00%	40.37	24.85	39.12
GS < 50 kW	38.27%	61.73%	100.00%	48.31	34.33	42.39
GS >50 to 4999 kW	78.22%	21.78%	100.00%	231.42	151.60	136.66
Sentinel Lights	39.18%	60.82%	100.00%	15.76	11.20	29.13
Street Lighting	26.43%	73.57%	100.00%	5.24	5.72	6.07
Unmetered and Scattered	50.00%	50.00%	100.00%	14.87	10.57	26.59

Table 8.9: 2018 Fixed – Variable Split

Customer Class	Current Volumetric Split	Current Fixed Charge Split	Total	Fixed Rate Based on Current Fixed/Variable Revenue Proportions	2017 Proposed Rates	Minimum System with PLCC Adjustment (Ceiling Fixed Charge From Cost Allocation Model)
Residential	19.82%	80.18%	100.00%	47.27	40.37	40.65
GS < 50 kW	36.85%	63.15%	100.00%	48.28	48.31	43.80
GS >50 to 4999 kW	78.85%	21.15%	100.00%	250.14	231.42	143.66
Sentinel Lights	38.91%	61.09%	100.00%	16.45	15.76	28.92
Street Lighting	26.34%	73.66%	100.00%	5.47	5.24	6.42
Unmetered and Scattered	51.98%	48.02%	100.00%	15.50	14.87	27.11

Table 8.10: 2019 Fixed – Variable Split

Customer Class	Current Volumetric Split	Current Fixed Charge Split	Total	Fixed Rate Based on Current Fixed/Variable Revenue Proportions	2018 Proposed Rates	Minimum System with PLCC Adjustment (Ceiling Fixed Charge From Cost Allocation Model)
Residential	9.59%	90.41%	100.00%	51.42	47.27	40.37
GS < 50 kW	35.01%	64.99%	100.00%	50.07	48.28	43.07
GS >50 to 4999 kW	79.42%	20.58%	100.00%	272.0	250.14	147.04
Sentinel Lights	38.64%	61.36%	100.00%	16.30	16.45	28.71
Street Lighting	26.26%	73.74%	100.00%	4.94	5.47	6.61
Unmetered and Scattered	53.96%	46.04%	100.00%	17.61	15.50	26.81

1 *Table 8.11: 2020 Fixed – Variable Split*

Customer Class	Current Volumetric Split	Current Fixed Charge Split	Total	Fixed Rate Based on Current Fixed/Variable Revenue Proportions	2019 Proposed Rates	Minimum System with PLCC Adjustment (Ceiling Fixed Charge From Cost Allocation Model)
Residential	0.00%	100.00%	100.00%	50.72	51.42	40.36
GS < 50 kW	33.19%	66.81%	100.00%	48.79	50.07	42.50
GS >50 to 4999 kW	80.04%	19.96%	100.00%	272.59	272.04	147.03
Sentinel Lights	38.37%	61.63%	100.00%	15.93	16.30	28.79
Street Lighting	26.18%	73.82%	100.00%	4.74	4.94	6.82
Unmetered and Scattered	55.92%	44.08%	100.00%	17.18	17.61	26.77

3 *Table 8.12: 2021 Fixed – Variable Split*

Customer Class	Current Volumetric Split	Current Fixed Charge Split	Total	Fixed Rate Based on Current Fixed/Variable Revenue Proportions	2020 Proposed Rates	Minimum System with PLCC Adjustment (Ceiling Fixed Charge From Cost Allocation Model)
Residential	0.00%	100.00%	100.00%	50.08	50.72	40.45
GS < 50 kW	31.52%	68.48%	100.00%	47.30	48.79	42.09
GS >50 to 4999 kW	80.62%	19.38%	100.00%	272.93	272.59	147.41
Sentinel Lights	38.10%	61.90%	100.00%	15.67	15.93	28.96
Street Lighting	26.09%	73.91%	100.00%	5.04	4.74	7.02
Unmetered and Scattered	57.86%	42.14%	100.00%	16.85	17.18	26.81

4
 5 Following the adjustment of the revenue to cost ratios as described in Exhibit 7, certain classes
 6 fell within the minimum and maximum fixed charge boundaries while others fell outside the
 7 boundaries. InnPower Corporation has adjusted the fixed charge taking into consideration
 8 various factors such as equity between the fixed and variable rate, impact on the customers as
 9 well as revenue stability.

10 InnPower Corporation throughout the timeframe of 2017 – 2019 has fully transitioned the
 11 Residential Rate to a fully fixed rate 2019.

12 No major adjustments for the General Service less than 50kW rate class for 2017 – 2021
 13 timeframe were made. InnPower Corporation is waiting on the next phase of the rate design
 14 policy to address this rate class.

15 The current rates for the General Service 50 – 4,999 kW rate class fell outside of the maximum
 16 fixed charged. Since the calculated rates at current levels split fell outside the maximum
 17 boundary, InnPower Corporation opted to keep the same fixed ratio. This decision is in

1 compliance with the requirements which stated that “(If a distributor’s current fixed charge is
2 higher than the calculated ceiling, there is no requirement to lower the fixed charge to the ceiling,
3 nor are distributors expected to raise the fixed charge further above the ceiling.)”

4

Ex.8/Tab 1/Sch.4 - Retail Transmission Service Rates (RTSRs)

Electricity distributors are charged for transmission costs at the wholesale level and subsequently pass these charges on to their distribution customers through the RTSRs. Variance accounts are used to capture timing differences and differences in the rate that a distributor pays for wholesale transmission service compared to the retail rate that the distributor is authorized to charge when billing its customers.

InnPower Corporation completed its 2017 proposed RTSR in accordance with the Guideline G-2008-0001: Electricity Distribution Retail Transmission Service Rates, October 22, 2008 (and any subsequent updates). The RTSR model provided by the Board is being filed in conjunction with this application. InnPower Corporation understands that RTSR rates for the years 2018 – 2021 will be updated via the annual update.

Table 8.8 below presents the Applicant's existing versus its proposed RTSR for the Test Year. The proposed rates are reflected in the Applicant's projected power supply expense for 2017 as shown in Exhibit 3.

Table 8.13: Proposed RTSR Rates – Network and Connection

Rate Class	Rate Description	Unit	Adjusted RTSR- Network	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR- Network
Residential	RTSR - Network	kWh	0.0071	159,434,854		1,136,245	65.3%	1,218,797	0.0076
General Service Less Than 50 kW	RTSR - Network	kWh	0.0065	36,017,209		234,168	13.5%	251,181	0.0070
General Service 50 to 4,999 kW	RTSR - Network	kW	2.5487		66,619	169,794	9.8%	182,130	2.7339
General Service 50 to 4,999 kW – Interval Metered	RTSR - Network	kW	2.5487		74,982	191,109	11.0%	204,994	2.7339
Unmetered Scattered Load	RTSR - Network	kWh	0.0065	494,490		3,215	0.2%	3,449	0.0070
Sentinel Lighting	RTSR - Network	kW	1.9947		298	594	0.0%	638	2.1397
Street Lighting	RTSR - Network	kW	1.9846		2,886	5,728	0.3%	6,144	2.1288

The purpose of this table is to update the re-aligned RTS Connection Rates to recover future wholesale connection costs.

Rate Class	Rate Description	Unit	Adjusted RTSR- Connection	Loss Adjusted Billed kWh	Billed kW	Billed Amount	Billed Amount %	Current Wholesale Billing	Proposed RTSR- Connection
Residential	RTSR - Connection	kWh	0.0051	159,434,854		806,193	59.0%	899,678	0.0056
General Service Less Than 50 kW	RTSR - Connection	kWh	0.0048	36,017,209		173,239	12.7%	193,328	0.0054
General Service 50 to 4,999 kW	RTSR - Connection	kW	2.6833		66,619	178,759	13.1%	199,488	2.9845
General Service 50 to 4,999 kW – Interval Metered	RTSR - Connection	kW	2.6833		74,982	201,200	14.7%	224,531	2.9845
Unmetered Scattered Load	RTSR - Connection	kWh	0.0048	494,490		2,378	0.2%	2,654	0.0054
Sentinel Lighting	RTSR - Connection	kW	2.0971		298	625	0.0%	697	2.3403
Street Lighting	RTSR - Connection	kW	1.4145		2,886	4,082	0.3%	4,556	1.5785

1 **Ex.8/Tab 1/Sch.5 - Retail Service Charges**

2

3 Retail services refer to services provided by a distributor to retailers or customers related to the
 4 supply of competitive electricity as set out in the Retail Settlement Code (“RSC”). InnPower
 5 Corporation proposes to maintain its current Retail Service Charges.

6 The following table shows the Retail Service Charges currently in effect and sought for approval
 7 in this proceeding.

	One-time charge, per retailer, to establish the service agreement between the distributor and the retailer	\$	100.00
	Monthly Fixed Charge, per retailer	\$	20.00
	Monthly Variable Charge, per customer, per retailer	\$/cust.	0.50
	Distributor-consolidated billing monthly charge, per customer, per retailer	\$/cust.	0.30
	Retailer-consolidated billing monthly credit, per customer, per retailer	\$/cust.	(0.30)
	Service Transaction Requests (STR)		
	Request fee, per request, applied to the requesting party	\$	0.25
	Processing fee, per request, applied to the requesting party	\$	0.50
	Request for customer information as outlined in Section 10.6.3 and Chapter 11 of the Retail Settlement Code directly to retailers and customers, if not delivered electronically through the Electronic Business Transaction (EBT) system, applied to the requesting party		
	Up to twice a year	\$	no charge
8	More than twice a year, per request (plus incremental delivery costs)	\$	2.00

Ex.8/Tab 1/Sch.6 - Wholesale Market Service Rate;

Wholesale Market Service Charges (WMS Charges) recover the cost of services required to operate the electricity system and administer the wholesale market. These charges include the costs of items such as operating reserve, certain market costs related to system congestion and imports, as well as other costs, such as losses on the IESO-controlled grid.

Individual electricity distributors recover the WMS Charges from their customers through the WMS rate, which is authorized by the Board under section 78 of the Act. The WMS rate appears on the tariff sheets for all electricity distributors. WMS Charges are paid by all customers of the wholesale electricity market, including electricity distributors, to the IESO.

The Wholesale Market Service Charges, (“WMS, RRP and OESP”) for the 2017 Test Year were calculated based on the OEB Decision and Rate Order EB-2015-0294 issued November 19, 2015.

WMS – \$/kWh 0.0036

RRP – \$/kWh 0.0013

OESP -\$/kWh 0.0011

With the exception of the OESP service charge, the Wholesale Market Service Costs have been very stable for a number of years. Thus InnPower Corporation has utilized the rates outlined in EB-2015-0294 without adjustment.

For the Test Years 2018 – 2021, InnPower has assumed the 2017 rates understanding that the rates will be updated during the annual update process.

Table 8.14: Wholesale Market Service Rate

Wholesale Market Service Class per Load Forecast		Volume Metric	2017		
Residential		kWh	160,097,498	\$0.0036	\$576,351
General Service < 50 kW		kWh	34,563,013	\$0.0036	\$124,427
General Service 50 to 4,999 kW		kWh	59,784,861	\$0.0036	\$215,225
Street Lighting		kWh	715,028	\$0.0036	\$2,574
Sentinel Lighting		kWh	104,986	\$0.0036	\$378
Unmetered Scattered Load		kWh	566,326	\$0.0036	\$2,039
TOTAL			255,831,711		\$920,994

1 **Ex.8/Tab 1/Sch.7 - Rural or Remote Rate Plan**

2

3 The Rural or Remote Electricity Rate Protection (RRRP) program is designed to provide
 4 financial assistance to eligible customers located in rural or remote areas where the costs of
 5 providing electricity service to these customers greatly exceeds the costs of providing electricity
 6 to customers located elsewhere in the province of Ontario. The RRRP amounts collected by the
 7 IESO are remitted to Hydro One Networks Inc. (Hydro One). Hydro One is required by
 8 regulation to pay out the funds received from the IESO to distributors that have received
 9 approval for RRRP and to track any over or under collections.

10 In compliance with the EB-2015-0295 Decision and Order above, InnPower Corporation is
 11 proposing to maintain the \$0.0013 RPPP rate.

12 *Table 8.15: Rural or Remote Rate Plan*

Rural Rate Assistance		Volume Metric	2017		
Class per Load Forecast					
Residential		kWh	160,097,498	\$0.0013	\$208,127
General Service < 50 kW		kWh	34,563,013	\$0.0013	\$44,932
General Service 50 to 4,999 kW		kWh	59,784,861	\$0.0013	\$77,720
Street Lighting		kWh	715,028	\$0.0013	\$930
Sentinel Lighting		kWh	104,986	\$0.0013	\$136
Unmetered Scattered Load		kWh	566,326	\$0.0013	\$736
TOTAL			255,831,711		\$332,581

13

14 **Ex.8/Tab 1/Sch.8 - OESP;**

15 *Table 8.16: Ontario Energy Support Program*

OESP		Volume Metric	2017		
Class per Load Forecast					
Residential		kWh	160,097,498	\$0.0011	\$176,107
General Service < 50 kW		kWh	34,563,013	\$0.0011	\$38,019
General Service 50 to 4,999 kW		kWh	59,784,861	\$0.0011	\$65,763
Street Lighting		kWh	715,028	\$0.0011	\$787
Sentinel Lighting		kWh	104,986	\$0.0011	\$115
Unmetered Scattered Load		kWh	566,326	\$0.0013	\$736
TOTAL			255,831,711		\$281,528

16

1 **Ex.8/Tab 1/Sch.9 - Smart Metering Charge**

2

3 InnPower Corporation is proposing to maintain its existing Smart Meter Entity Charge (“SME”).
4 The proposed rate remains at \$0.79. The table below shows the projected revenues collected
5 from the SME.

6 *Table 8.17: Pass-thru revenues From SME*

Calculation Of SME Charges			
	Customers	Rate	
Residential	15,930	0.79	\$151,016
GS<50	1,052	0.79	\$9,973
			\$160,989

7

8

1 **Ex.8/Tab 1/Sch.10 - Specific Service Charges**

2

3 InnPower Corporation is requesting changes and approvals to the following Other Specific
 4 Service Charges. The proposed rates are based on actual costs for these services.

Other			
Special meter reads		\$	30.00
Temporary service installation and removal – overhead – no transformer		\$	632.00
Temporary Service – Install & remove – underground – no transformer		\$	468.00
Temporary Service – Install & remove – overhead – with transformer		\$	2,526.00
Specific Charge for Access to the Power Poles - \$/pole/year		\$	47.50

5

6 *Temporary Service – Install & Remove – Underground – No Transformer*

7

8 The current rate for this service charge is \$300.00. The revised calculation on based on
 9 InnPower Corporation actual costs for this service.

INSTALLATION				REMOVAL			
Basic Temp. Service U/G no TX							
	Hours/Units	Rate per Hour	Total Cost		Hours/Units	Rate per Hour	Total Cost
Line Staff	1.5	\$ 68.75	\$ 103.13	Line Staff	1	\$ 68.75	\$ 68.75
Eng Tech	1	\$ 58.00	\$ 58.00	Eng Tech	1	\$ 58.00	\$ 58.00
Management	0.5	\$ 72.00	\$ 36.00	Management	0.5	\$ 72.00	\$ 36.00
Bucket Truck	0.75	\$ 42.00	\$ 31.50	Bucket Truck	0.5	\$ 42.00	\$ 21.00
Sm. Vehicle	1	\$ 19.50	\$ 19.50	Sm. Vehicle	1	\$ 19.50	\$ 19.50
Material			\$ 16.75				
COST			\$ 264.88	COST			\$ 203.25
Basic Temp. Service U/G no TX Total Cost			\$ 468.13				

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1 *Temporary Service – Install & Remove – Overhead – No Transformer*

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3 The current rate for this service charge is \$500.00. The revised calculation on based on
 4 InnPower Corporation actual costs for this service.

Basic Temp. Service O/H no TX							
INSTALLATION				REMOVAL			
	Hours/Units	Rate	Total Cost		Hours/Units	Rate	Total Cost
Line Staff	3	\$ 68.75	\$ 206.25	Line Staff	2	\$ 68.75	\$ 137.50
Eng Tech	1	\$ 58.00	\$ 58.00	Eng Tech	0.5	\$ 58.00	\$ 29.00
Management	0.5	\$ 72.00	\$ 36.00	Management	0	\$ 72.00	\$ -
Bucket Truck	1.5	\$ 42.00	\$ 63.00	Bucket Truck	1	\$ 42.00	\$ 42.00
Sm. Vehicle	1	\$ 19.50	\$ 19.50	Sm. Vehicle	0.5	\$ 19.50	\$ 9.75
Material			\$ 31.24				
COST			\$ 413.99	COST			\$ 218.25
Basic Temp. Service O/H no TX Total Cost			\$ 632.24				

5

6

7 *Temporary Service – Install & Remove – Overhead – With Transformer*

8 The current rate for this service charge is \$1000.00. The revised calculation on based on
 9 InnPower Corporation actual costs for this service.

Basic Temp.O/H Service with TX							
INSTALLATION				REMOVAL			
	Hours/Units	Rate	Total Cost		Hours/Units	Rate	Total Cost
Line Staff	8	\$ 68.75	\$ 550.00	Line Staff	5	\$ 68.75	\$ 343.75
Eng Tech	5	\$ 58.00	\$ 290.00	Eng Tech	1	\$ 58.00	\$ 58.00
Management	1	\$ 72.00	\$ 72.00	Management	0.5	\$ 72.00	\$ 36.00
Bucket Truck	4	\$ 42.00	\$ 168.00	Bucket Truck	2.5	\$ 42.00	\$ 105.00
Sm. Vehicle	3	\$ 19.50	\$ 58.50	Sm. Vehicle	1	\$ 19.50	\$ 19.50
Material			\$ 722.91				
Transformer			\$ 102.00				
TOTAL COST			\$ 1,963.41	TOTAL COST			\$ 562.25
Basic Temp.O/H Service with TX Total Cost			\$ 2,525.66				

10

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12

1 *Specific Charge for Access to the Power Poles - \$/pole/year*

2

3 The current rate for this service charge is \$22.35. The revised calculation on based on
 4 InnPower Corporation actual costs for this service.

5

	TASK	RATE	Hours	OT	Calculated Cost
Admin	Invoicing	\$ 58.00	20		\$ 1,160.00
	GIS	\$ 58.00	40		\$ 2,320.00
	Poles with Attachments	6627			
	Total Admin Costs per Year				\$ 0.53
Replacement	Eng Tech				
	Labour	\$ 58.00	1.5		\$ 87.00
	Vehicle	\$ 19.50	1		\$ 19.50
	Sub-Total-Tech				\$ 106.50
	Poles Replaced per year with Attachments-Eng Cost				150
	Sub-Total				\$ 15,975.00
	Line Staff				
	Labour	\$ 146.25	1		\$ 146.25
	Vehicle	\$ 61.50	1		\$ 61.50
	Sub-Total				\$ 207.75
	Poles Replaced per year with Attachments-Line Cost				150
	Sub-Total				\$ 31,162.50
	Total Replacement				\$ 47,137.50
Field work	Wire Down				
	Labour	\$ 146.25	1		\$ 146.25
	Vehicle	\$ 61.50	1		\$ 61.50
	Sub-Total				\$ 207.75
	Wires reported down				90
	Cost per year wire down				\$ 18,697.50
	Tree on Line				
	Labour	\$ 146.25	1		\$ 146.25
	Vehicle	\$ 61.50	1		\$ 61.50
	Sub-Total				\$ 207.75
	Tree reported on Line				135
	Cost per year Tree on Line				\$ 28,046.25
	Total Cost per Year due to loss in Productivity				\$ 109,856.25
	Poles with Attachments			6627	
	Total cost per pole with Attachment per year				\$ 17.10
Net Embedded Cost per Pole	Used to calculate Capital Carrying Cost				\$ 1,625.00
	Depreciation Expense per Pole(40 Yr)				\$ 40.63
	Pole Maint. Per Pole				\$ 11.90
	Capital Carrying Cost per Year(3% rate)	3%			\$ 48.75
	Total Indirect Cost per Pole				\$ 101.28
	Cost Based on 2 Third Party Attachments	30%			
	Total Indirect Cost per Pole with Attachments				\$ 30.38
	Total Cost per Pole with Attachments per Year				\$ 47.48

6

7

Ex.8/Tab 1/Sch.11 - Low Voltage Service Rates

Table 8.18 below shows the derivation of proposed retail rates for Low Voltage (“LV”) service. The 2017 – 2021 estimates of total LV charges were calculated based on an average of the last 4 years (2012 – 2015) and adjusted to reflect the average projected load growth in 2017 - 2021.

The projections were allocated to customer classes, according to each class’ share of projected Transmission-Connection revenue, in accordance with Board policy. The resulting allocated LV charges for each class were divided by the applicable Test Year (2017 – 2021) volumes from the load forecast, as presented in Exhibit 3.

Current LV revenues are recovered through a separate rate adder and therefore are not embedded within the approved Distribution Volumetric rate. 2017 – 2021 LV rates appear on a distinct line item on the proposed schedule of rates.

Table 8.18: Calculation of proposed Low Voltage Charges

	2012	2013	2014	2015	2016 to Date	2017	2018	2019	2020	2021
Total LV Collected	\$ 502,494	\$ 515,827	\$ 513,418	\$ 516,908						
1500 GL	\$ 477,535	\$ 664,509	\$ 615,234	\$ 820,389	\$ 497,524					
4 Year Average				\$ 644,417	\$ 644,417	\$ 663,750	\$ 683,662	\$ 704,172	\$ 725,297	\$ 747,056
Year over year Increase						\$ 663,750	\$ 683,662	\$ 704,172	\$ 725,297	\$ 747,056

Table 8.19: Calculation of 2017 proposed Low Voltage Rates

2017 Load Forecast	kWh	kW	% of Tot Load	% of Forecast	2017 LV Rate
Residential	149,932,101		62.89%	\$ 417,441	\$ 0.0028
General Service < 50 k	32,368,433		13.58%	\$ 90,120	\$ 0.0028
General Service 50 to	55,988,819	157,261	23.49%	\$ 155,884	\$ 0.9912
Street Lighting	669,627	1,889	0.28%	\$ 1,864	\$ 0.9870
Sentinel Lighting	98,320	273	0.04%	\$ 274	\$ 1.0027
Unmetered Scattered I	530,367		0.22%	\$ 1,477	\$ 0.0028
TOTAL	238,398,414	156,308		\$ 663,750	

1 *Table 8.20: Calculation of 2018 proposed Low Voltage Rates*

2018 Load Forecast	kWh	kW	% of Tot Load	% of Forecast	2018 LV Rate
Residential	152,052,309		62.63%	\$ 428,153	\$ 0.0028
General Service < 50 kVA	31,245,332		12.87%	\$ 87,981	\$ 0.0028
General Service 50 to 100 kVA	58,150,841	163,334	23.95%	\$ 163,743	\$ 1.0025
Street Lighting	681,779	1,923	0.28%	\$ 1,920	\$ 0.9983
Sentinel Lighting	96,006	267	0.04%	\$ 270	\$ 1.0125
Unmetered Scattered	566,301		0.23%	\$ 1,595	\$ 0.0028
TOTAL	242,792,568	165,524		\$ 683,662.00	

3 *Table 8.21: Calculation of 2019 proposed Low Voltage Rates*

2019 Load Forecast	kWh	kW	% of Tot Load	% of Forecast	2019 LV Rate
Residential	156,772,519		65.07%	\$ 458,181	\$ 0.0029
General Service < 50 kVA	22,593,582		9.38%	\$ 66,032	\$ 0.0029
General Service 50 to 100 kVA	60,182,952	169,041	24.98%	\$ 175,890	\$ 1.0405
Street Lighting	694,234	1,958	0.29%	\$ 2,029	\$ 1.0362
Sentinel Lighting	93,733	260	0.04%	\$ 274	\$ 1.0536
Unmetered Scattered	604,596		0.25%	\$ 1,767	\$ 0.0029
TOTAL	240,941,616	171,259		\$ 704,172	

5 *Table 8.22: Calculation of 2020 proposed Low Voltage Rates*

2020 Load Forecast	kWh	kW	% of Tot Load	% of Forecast	2020 LV Rate
Residential	160,929,748		63.63%	\$ 461,524	\$ 0.0029
General Service < 50 kVA	27,991,553		11.07%	\$ 80,276	\$ 0.0029
General Service 50 to 100 kVA	62,540,635	175,664	24.73%	\$ 179,358	\$ 1.0210
Street Lighting	706,615	1,993	0.28%	\$ 2,026	\$ 1.0168
Sentinel Lighting	91,498	254	0.04%	\$ 262	\$ 1.0331
Unmetered Scattered	645,392		0.26%	\$ 1,851	\$ 0.0029
TOTAL	252,905,441	177,911		\$ 725,297.01	

7 *Table 8.23: Calculation of 2021 proposed Low Voltage Rates*

2021 Load Forecast	kWh	kW	% of Tot Load	% of Forecast	2021 LV Rate
Residential	163,557,480		63.76%	\$ 476,318	\$ 0.0029
General Service < 50 kVA	26,587,055		10.36%	\$ 77,428	\$ 0.0029
General Service 50 to 100 kVA	64,881,031	182,237	25.29%	\$ 188,949	\$ 1.0368
Street Lighting	719,275	20,209	0.28%	\$ 2,095	\$ 0.1037
Sentinel Lighting	89,302	248	0.03%	\$ 260	\$ 1.0487
Unmetered Scattered	688,837		0.27%	\$ 2,006	\$ 0.0029
TOTAL	256,522,980	202,694		\$ 747,055.92	

Ex.8/Tab 1/Sch.12 - Loss Adjustment Factors

InnPower Corporation proposes a Total Loss Factor (“TLF”) of 1.0678, using the historical average of the last five years as presented at Table 8.13. The proposed TLF represents a decrease from InnPower Corporation’s currently approved TLF of 1.0732.

InnPower Corporation is an embedded distributor with Hydro One Networks Inc. (“HONI”) as its host distributor. InnPower Corporation’s system losses have declined since the last cost of service application. The utility is committed to continuing its effort to maintain its losses at a minimum.

**Appendix 2-R
Loss Factors**

		Historical Years					5-Year Average
		2011	2012	2013	2014	2015	
Losses Within Distributor's System							
A(1)	"Wholesale" kWh delivered to distributor (higher value)	245,129,838	251,758,061	253,254,986	255,774,983	258,773,135	252,938,201
A(2)	"Wholesale" kWh delivered to distributor (lower value)	239,421,445	246,342,457	248,163,153	251,281,174	256,175,578	248,276,761
B	Portion of "Wholesale" kWh delivered to distributor for its Large Use Customer(s)						-
C	Net "Wholesale" kWh delivered to distributor = A(2) - B	239,421,445	246,342,457	248,163,153	251,281,174	256,175,578	248,276,761
D	"Retail" kWh delivered by distributor	230,204,043	235,204,529	237,237,862	240,479,726	241,363,660	236,897,964
E	Portion of "Retail" kWh delivered by distributor to its Large Use Customer(s)						-
F	Net "Retail" kWh delivered by distributor = D - E	230,204,043	235,204,529	237,237,862	240,479,726	241,363,660	236,897,964
G	Loss Factor in Distributor's system = C / F	1.0400	1.0474	1.0461	1.0449	1.0614	1.0480
Losses Upstream of Distributor's System							
H	Supply Facilities Loss Factor	1.0238	1.0220	1.0205	1.0179	1.0101	1.0189
Total Losses							
I	Total Loss Factor = G x H	1.0648	1.0704	1.0675	1.0636	1.0721	1.0678

1 **Ex.8/Tab 1/Sch.13 - Revenue Reconciliation**

2

3 OEB Appendix 2-V is which shows detailed calculations of revenue per rate class under current
4 rates and proposed rates by customer class; and detailed reconciliation of rate class revenue
5 and other revenue to total revenue requirement.

Appendix 2-V – Revenue Reconciliation

Appendix 2-V Revenue Reconciliation 2017

Rate Class	Customers/ Connections	Number of Customers/Connections			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates	Class Specific Revenue Requirement	Transformer Allowance Credit	Total	Difference
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric						
Residential	Customers	15,930	15,930	15,930	149,932,101		\$ 40.37	\$ 0.0131		\$ 9,681,239.72	\$ 9,685,595		\$ 9,685,595	\$ 4,355
GS < 50 kW	Customers	1,052	1,052	1,052	32,368,433		\$ 48.31	\$ 0.0117		\$ 988,576.11	\$ 987,959		\$ 987,959	\$ 618
GS > 50 to 4,999 kW	Customers	72	72	72	55,988,819	157,261	\$ 231.42	\$ -	\$ 4.5788	\$ 920,012.85	\$ 911,472	\$ 22,556	\$ 934,028	\$ 14,015
Streetlighting	Connections	3,030	3,030	3,030	669,627	1,889	\$ 5.24	\$ -	\$ 36.1730	\$ 258,840.74	\$ 258,830		\$ 258,830	\$ 10
Sentinel Lighting	Connections	161	161	161	98,320	273	\$ 15.76	\$ -	\$ 71.7950	\$ 50,061.82	\$ 50,065		\$ 50,065	\$ 3
Unmetered Scattered Load	Connections	74	74	74	530,367		\$ 14.87	\$ 0.0249		\$ 26,410.70	\$ 26,420		\$ 26,420	\$ 9
Total		20,319			239,587,667	159,423				\$ 11,925,141.93	\$ 11,920,340	\$ 22,556	\$ 11,942,896	\$ 17,754

Appendix 2-V Revenue Reconciliation 2018

Rate Class	Customers/ Connections	Number of Customers/Connections			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates	Class Specific Revenue Requirement	Transformer Allowance Credit	Total	Difference
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric						
Residential	Customers	16,676	16,676	16,676.00	152,052,309		\$ 47.27	\$ 0.0068		\$ 10,499,746.89	\$ 10,498,939		\$ 10,498,939	\$ 808
GS < 50 kW	Customers	1,079	1,079	1,079.00	31,245,332		\$ 48.28	\$ 0.0117		\$ 989,866.10	\$ 989,899		\$ 989,899	\$ 33
GS > 50 to 4,999 kW	Customers	72	72	71.50	58,150,841	163,334	\$ 250.14	\$ -	\$ 5.0435	\$ 1,038,393.27	\$ 1,014,964	\$ 23,427	\$ 1,038,391	\$ 2
Streetlighting	Connections	3,098	3,098	3,098.00	681,779	1,923	\$ 5.47	\$ -	\$ 37.7972	\$ 276,029.88	\$ 275,877		\$ 275,877	\$ 153
Sentinel Lighting	Connections	159	159	159.00	96,006	267	\$ 16.45	\$ -	\$ 74.9439	\$ 51,378.61	\$ 51,384		\$ 51,384	\$ 5
Unmetered Scattered Load	Connections	73	73	73.00	566,301	-	\$ 15.50	\$ 0.0259		\$ 28,272.53	\$ 28,269		\$ 28,269	\$ 4
Total		21,157								\$ 12,883,687.29	\$ 12,859,332	\$ 23,427	\$ 12,882,759	\$ 928

Appendix 2-V Revenue Reconciliation 2019

Rate Class	Customers/ Connections	Number of Customers/Connections			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates	Class Specific Revenue Requirement	Transformer Allowance Credit	Total	Difference
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric						
Residential	Customers	17,824	17,824	17,824	156,772,519		\$ 51.42	\$ -		\$ 10,997,826.25	\$ 10,997,826		\$ 10,997,826	\$ -
GS < 50 kW	Customers	1,107	1,107	1,107	29,593,582		\$ 50.07	\$ 0.0121		\$ 1,023,316.57	\$ 1,023,317		\$ 1,023,317	\$ -
GS > 50 to 4,999 kW	Customers	72	72	72	60,182,952	169,041	\$ 272.04	\$ -	\$ 5.4725	\$ 1,158,482.70	\$ 1,134,237	\$ 24,246	\$ 1,158,483	\$ -
Streetlighting	Connections	3,168	3,168	3,168	694,234	1,958	\$ 4.94	\$ -	\$ 34.1867	\$ 254,878.39	\$ 254,878		\$ 254,878	\$ -
Sentinel Lighting	Connections	157	157	157	93,733	260	\$ 16.30	\$ -	\$ 74.2470	\$ 50,045.66	\$ 50,046		\$ 50,046	\$ -
Unmetered Scattered Load	Connections	72	72	72	604,596		\$ 15.50	\$ 0.0259		\$ 29,076.47	\$ 33,053		\$ 33,053	\$ 3,977
Total		22,400			247,941,616	171,260				\$ 13,513,626.03	\$ 13,493,357	\$ 24,246	\$ 13,517,603	\$ 3,977

1

Revenue Reconciliation

Appendix 2-V Revenue Reconciliation 2020

Rate Class	Customers/ Connections	Number of Customers/Connections			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates	Class Specific Revenue Requirement	Transformer Allowance Credit	Total	Difference
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric						
Residential	Customers	18,877	18,877	18,877	160,929,748		\$ 51.42	\$ -		\$ 11,647,551.96	\$ 11,647,552		\$ 11,647,552	\$ -
GS < 50 kW	Customers	1,135	1,135	1,135	27,991,553		\$ 50.07	\$ 0.0121		\$ 1,020,746.92	\$ 1,020,747		\$ 1,020,747	\$ -
GS > 50 to 4,999 kW	Customers	72	72	72	62,540,635	175,664	\$ 272.04		\$ 5.4725	\$ 1,194,722.78	\$ 1,194,723	\$ 25,195	\$ 1,219,918	\$ 25,195
Streetlighting	Connections	3,239	3,239	3,239	706,615	1,993	\$ 4.94		\$ 34.1867	\$ 260,284.24	\$ 260,284		\$ 260,284	\$ -
Sentinel Lighting	Connections	155	155	155	91,498	254	\$ 16.30		\$ 74.2470	\$ 49,193.44	\$ 49,193		\$ 49,193	\$ -
Unmetered Scattered Load	Connections	70	70	70	645,392		\$ 17.61	\$ 0.0295		\$ 33,833.68	\$ 34,045		\$ 34,045	\$ 211
Total			23,548		252,905,442	177,911				\$ 14,206,333.02	\$ 14,206,544	\$ 25,195	\$ 14,231,740	\$ 25,407

Appendix 2-V Revenue Reconciliation 2021

Rate Class	Customers/ Connections	Number of Customers/Connections			Test Year Consumption		Proposed Rates			Revenues at Proposed Rates	Class Specific Revenue Requirement	Transformer Allowance Credit	Total	Difference
		Start of Test Year	End of Test Year	Average	kWh	kW	Monthly Service Charge	Volumetric						
Residential	Customers	19,853	19,853	19,853.00	163,557,480		\$ 50.72	\$ -		\$ 12,083,047.30	\$ 11,930,571		\$ 11,930,571	\$- 152,476
GS < 50 kW	Customers	1,164	1,164	1,164.00	26,587,055		\$ 48.79	\$ 0.0118		\$ 995,029.64	\$ 964,813		\$ 964,813	\$ 30,217
GS > 50 to 4,999 kW	Customers	72	72	71.50	64,881,031	182,237	\$ 272.59		\$ 5.4834	\$ 1,233,155.26	\$ 1,208,503	\$ 26,138	\$ 1,234,641	\$ 1,486
Streetlighting	Connections	3,312	3,312	3,312.00	719,275	2,029	\$ 4.74		\$ 32.7668	\$ 254,794.18	\$ 270,852		\$ 270,852	\$ 16,058
Sentinel Lighting	Connections	153	153	153.00	89,302	248	\$ 15.93		\$ 72.5705	\$ 47,257.44	\$ 46,478		\$ 46,478	\$ 780
Unmetered Scattered Load	Connections	70	70	70.00	688,837		\$ 17.18	\$ 0.0288		\$ 34,242.75	\$ 33,583		\$ 33,583	\$ 659
Total		24,624			256,522,979	184,514				\$ 14,647,526.58	\$ 14,454,800	\$ 26,138	\$ 14,480,938	\$- 166,588

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5

1 **Ex.8/Tab 1/Sch.14 - Tariff of Rates and Charges**

2

3 InnPower Corporation has presented the 2016 existing rate schedule and the proposed rate
4 schedules for 2017 – 2021 in Appendix A – Appendix F.

5

6 **Ex.8/Tab 1/Sch.15 - Bill Impact Information**

7

8 Bill impacts for the 2017 – 2021 are presented in Appendix G - K are presented at the next
9 pages.

10

11 **Ex.8/Tab 1/Sch.15 - Rate Mitigation/Foregone Revenues**

12

13 InnPower Corporation is not proposing any rate mitigation strategies.

1 List of Appendices

2

A	2016 Current Rate Tariff
B	2017 Proposed Rate Tariff
C	2018 Proposed Rate Tariff
D	2019 Proposed Rate Tariff
E	2020 Proposed Rate Tariff
F	2021 Proposed Rate Tariff
G	2017 Bill Impacts
H	2018 Bill Impacts
I	2019 Bill Impacts
J	2020 Bill Impacts
K	2021 Bill Impacts

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1 **Appendix A: 2016 Current Rate Tariff**

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1 **Appendix B: 2017 Proposed Rate Tariff**

2

1 **Appendix C: 2018 Proposed Rate Tariff**

2

1 **Appendix D: 2019 Proposed Rate Tariff**

2

1 **Appendix E: 2020 Proposed Rate Tariff**

2

1 **Appendix F: 2021 Proposed Rate Tariff**

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1 **Appendix G: 2017 Bill Impacts**

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1 **Appendix H: 2018 Bill Impacts**

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1 **Appendix I: 2019 Bill Impacts**

2

1 **Appendix J: 2020 Bill Impacts**

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1 **Appendix K: 2021 Bill Impacts**

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