

NON-CONFIDENTIAL

Request IR-1:

At line 15, page 6, NSPI states that it will work with customers to help ensure their generator is sized to meet the expected annual consumption of the customer. Assuming the customer is proposing to install a wind turbine with an annual capacity factor of 30%, what is the maximum unit size permitted for each of the following:

(a) A customer whose annual demand is 1500kW and whose annual consumption is 7800 Mwh.

(b) A customer whose annual demand is 900kW and whose annual consumption is 1600Mwh.

Response IR-1:

(a) A 3.0 MW generator with a capacity factor of 30 percent would generate 7800 MWh in one year ($7800 \text{ MWh} / 8760 \text{ hour/year} * 1 / 0.3 = 2.97 \text{ MW}$). This is greater than the 1 MW limit permitted in the *Amended Electricity Act*¹, section 3A(4) so the maximum generation capacity would be 1 MW.

(b) A 0.6 MW generator with a capacity factor of 30 percent would be a perfect match for the stated annual consumption. The customer could propose a different generation capacity which NSPI would then review to determine if it was a reasonable match. Please also refer to HRWC IR-2(a).

¹ *Electricity Act*, R.S.N.S., amended 2010, c. 14.

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Request IR-2:

At Lines 19 – 23 on page 9, NSPI discusses its proposed definition of “distribution zone”. Please elaborate on the phrase “with an equitable allocation of geographically dispersed net metering opportunities that protects the economic integrity of alternate market arrangements under OATT”.

Response IR-2:

In defining a “distribution zone”, NSPI chose the broadest definition possible to provide access to the local distribution system, maximizing opportunities for customers who may be interested in subscribing to enhanced net metering while respecting the revenue and eligibility requirements of the Open Access Transmission Tariff (OATT). Since the OATT governs access to and rates paid for use of transmission system assets, the distribution zone definition provides for the full use of the distribution system in an area without including any transmission elements, thus preventing any use of transmission that is prohibited under the OATT.

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Request IR-3:

With respect to Section 4, Payment for Annual Excess Self-Generation, please provide the following for each rate class in which customers could potentially qualify for net metering under the proposed Regulation 3.6.

(a) The current energy charges per Kwh, showing the charges as approved by the Board in NSPI's last General Rate Application, and the AA, BA and DCRR charges that currently apply (Please show those separately, rather than in aggregate)

(b) The current Demand Charge (\$/KW or \$/KVA)

(c) The “appropriate retail rate” (page 11, Line 12) that would apply to surplus energy received from customers.

Response IR-3:

(a - b) Please refer to Attachment 1.

(c) Please refer to Attachment 2.

RATE SCHEDULES		
RESIDENTIAL TARIFFS		
Domestic Service Rate	units	
Customer Charge	\$/mo	10.830
Energy		-
Base cost of fuel	¢/kWh	4.741
Non-fuel	¢/kWh	7.057
AA	¢/kWh	0.165
BA	¢/kWh	0.111
Total Energy Charge	¢/kWh	12.074
Energy Efficiency Programs (DCRR)	¢/kWh	0.466
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.466
Domestic Service TOD Rate		
Customer Charge	\$/mo	18.820
December, January & Feb: energy charge		
Base cost of fuel	¢/kWh	4.741
Non-fuel	¢/kWh	10.581
AA	¢/kWh	0.165
BA	¢/kWh	0.111
total on-peak	¢/kWh	15.598
Base cost of fuel	¢/kWh	4.741
Non-fuel	¢/kWh	7.057
AA	¢/kWh	0.165
BA	¢/kWh	0.111
total shoulder	¢/kWh	12.074
Base cost of fuel	¢/kWh	4.741
Non-fuel	¢/kWh	1.289
AA	¢/kWh	0.165
BA	¢/kWh	0.111
total off-peak	¢/kWh	6.306
Other months: energy charge		
Base cost of fuel	¢/kWh	4.741
Non-fuel	¢/kWh	7.057
AA	¢/kWh	0.165
BA	¢/kWh	0.111
total on-peak	¢/kWh	12.074
Base cost of fuel	¢/kWh	4.741
Non-fuel	¢/kWh	1.289
AA	¢/kWh	0.165
BA	¢/kWh	0.111
total off-peak	¢/kWh	6.306
Energy Efficiency Programs (DCRR)	¢/kWh	0.466
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.466

COMMERCIAL TARIFFS		
Small General Rate	units	2011 Rates
Customer Charge	\$/mo	12.650
Block 1 Energy		
Base cost of fuel	¢/kWh	4.876
Non-fuel	¢/kWh	8.191
AA	¢/kWh	0.167
BA	¢/kWh	0.128
Total Energy Charge, block 1 (first 200 kWhs)	¢/kWh	13.362
Block 2 Energy		
Base cost of fuel	¢/kWh	4.876
Non-fuel	¢/kWh	6.620
AA	¢/kWh	0.167
BA	¢/kWh	0.128
Total Energy Charge, block 2	¢/kWh	11.791
Energy Efficiency Programs	¢/kWh	0.721
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.721
General Rate		
Demand Charge	\$/kW	9.034
Block 1 Energy		
Base cost of fuel	¢/kWh	4.943
Non-fuel	¢/kWh	4.703
AA	¢/kWh	0.133
BA	¢/kWh	0.116
Total Energy Charge, block 1 (first 200kWh * demand)	¢/kWh	9.895
Block 2 Energy		
Base cost of fuel	¢/kWh	4.943
Non-fuel	¢/kWh	1.881
AA	¢/kWh	0.133
BA	¢/kWh	0.116
Total Energy Charge, block 2	¢/kWh	7.073
Energy Efficiency Programs	¢/kWh	0.484
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.484
Transformer Ownership Credit	¢/kVA	(32.000)
Large General Rate		
Demand Charge (Ratcheted)	\$/kVA	11.000
Energy		
Base cost of fuel	¢/kWh	4.541
Non-fuel	¢/kWh	2.077
AA	¢/kWh	0.093
BA	¢/kWh	0.110
Total Energy Charge	¢/kWh	6.821
Energy Efficiency Programs	¢/kWh	0.501
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.501
Transformer Ownership Credit	¢/kVA	(32.000)

INDUSTRIAL TARIFFS		
Small Industrial Rate	units	2011 Rates
Demand Charge	\$/kVA	6.442
Block 1 Energy		
Base cost of fuel	¢/kWh	4.668
Non-fuel	¢/kWh	3.758
AA	¢/kWh	0.124
BA	¢/kWh	0.116
Total Energy Charge, block 1 (first 200 kWhs * demand)	¢/kWh	8.666
Block 2 Energy		
Base cost of fuel	¢/kWh	4.668
Non-fuel	¢/kWh	1.768
AA	¢/kWh	0.124
BA	¢/kWh	0.116
Total Energy Charge, block 2	¢/kWh	6.676
Energy Efficiency Programs	¢/kWh	0.214
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.214
Transformer Ownership Credit	¢/kVA	(32.000)
Medium Industrial Rate		
Demand Charge	\$/kVA	10.369
Energy		
Base cost of fuel	¢/kWh	4.593
Non-fuel	¢/kWh	1.413
AA	¢/kWh	0.111
BA	¢/kWh	0.124
Total Energy Charge	¢/kWh	6.241
Energy Efficiency Programs	¢/kWh	0.328
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.328
Transformer Ownership Credit	¢/kVA	(32.000)
Large Industrial Rate		
Demand Charge (Ratcheted)	\$/kVA	9.886
Firm		
Energy		
Base cost of fuel	¢/kWh	4.402
Non-fuel	¢/kWh	1.665
AA	¢/kWh	0.081
BA	¢/kWh	0.099
Total Energy Charge	¢/kWh	6.247
Interruptible		
Energy		
Base cost of fuel	¢/kWh	4.402
Non-fuel	¢/kWh	1.594
AA	¢/kWh	0.081
BA	¢/kWh	0.099
Total Energy Charge	¢/kWh	6.176
Energy Efficiency Programs	¢/kWh	0.198
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.198
Transformer Ownership Credit	¢/kVA	(32.000)
Interruptible Credit	\$/kVA	(3.430)

MUNICIPAL TARIFFS		
Municipal Rate	units	2011 Rates
Demand Charge (Ratcheted)	\$/kVA	10.256
Energy		
Base cost of fuel	¢/kWh	4.538
Non-fuel	¢/kWh	1.675
AA	¢/kWh	0.113
BA	¢/kWh	0.105
Total Energy Charge	¢/kWh	6.431
Energy Efficiency Programs	¢/kWh	0.441
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.441
Transformer Ownership Credit	\$/kVA	(32.000)
OTHER TARIFFS		
Outdoor Recreational Light Rate	units	2011 Rates
Energy		
Base cost of fuel	¢/kWh	4.816
Non-fuel	¢/kWh	6.335
AA	¢/kWh	0.104
BA	¢/kWh	0.125
Total Energy Charge	¢/kWh	11.380
Energy Efficiency Programs	¢/kWh	0.132
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.132
Miscellaneous Lighting Rate		
Demand Charge	\$/kW	8.505
Block 1 Energy		
Base cost of fuel	¢/kWh	4.816
Non-fuel	¢/kWh	4.910
AA	¢/kWh	0.104
BA	¢/kWh	0.125
Total Energy Charge, block 1 (first 200kWh * demand)	¢/kWh	9.955
Block 2 Energy		
Base cost of fuel	¢/kWh	4.816
Non-fuel	¢/kWh	1.641
AA	¢/kWh	0.104
BA	¢/kWh	0.125
Total Energy Charge, block 2	¢/kWh	6.686
Energy Efficiency Programs	¢/kWh	0.132
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.132
ANNUALLY ADJUSTED TARIFFS		
Load Following	units	Proposed Rate
Fuel-related	¢/kWh	5.73
Admin Cost	¢/kWh	0.50
Energy Charge	¢/kWh	6.226
Energy Efficiency Programs	¢/kWh	0.035
Energy Efficiency Programs (DCRR) BA	¢/kWh	-
Total Energy Efficiency Programs	¢/kWh	0.035
1P-RTP adders	units	Proposed Rate
RTP - Distribution Class Off Peak	¢/kWh	2.146
RTP - Distribution Class On Peak	¢/kWh	8.183

Retail Rates Applicable to Annual Excess Self-Generation			
RESIDENTIAL TARIFFS			
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Energy Charge	¢/kWh	6.226
1P-RTP adders	units	Proposed Rate
RTP - Distribution Class Off Peak	¢/kWh	2.146
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Proposed Enhancements to Regulation 3.6 – Net Metering (NSUARB – P-188)
NSPI Responses to Multeese Information Requests

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Request IR-4:

It is noted at Line 7, page 12 that NSDOE confirmed to NSPI that the proposed revised regulation is consistent with the provisions of the Amended Electricity Act. Please provide NSDOE's confirmation.

Response IR-4:

NSPI met with representatives from NSDOE on September 23, 2010 to review a draft of NSPI's proposed Regulation 3.6. At that meeting, NSPI sought and was provided with verbal confirmation from NSDOE that the draft appeared to be consistent with the provisions of the *Amended Electricity Act*.¹

¹ *Electricity Act*, R.S.N.S., amended 2010, c. 14.