

STATE OF MINNESOTA

BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Beverly Jones Heydinger
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Chair
Commissioner
Commissioner
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**IN THE MATTER OF UTILITIES' ANNUAL
REPORTS ON PROGRESS IN ACHIEVING
THE SOLAR ENERGY STANDARD**

DOCKET NO. E-999/M-14-321

**INTERSTATE POWER AND LIGHT COMPANY'S 2013 SOLAR ENERGY
STANDARD ANNUAL REPORT**

COMES NOW, Interstate Power and Light Company (IPL), and in compliance with Minn. Stat. § 216.B1691, subd. 2f(g) and the Minnesota Public Utilities Commission's (Commission) *Notice of Reporting Requirement and Comment Period* (Notice) issued on April 21, 2014, files with the Commission its 2013 Solar Energy Standard (SES) Annual Report.

I. INTRODUCTION

On April 25, 2014, the Commission issued its *Order Clarifying Solar Energy Standard Requirements and Setting Annual Reporting Requirements* in Docket No. E-999/CI-13-542 (April 25th Order). The Commission delegated authority to the Executive Secretary to issue a notice listing the reporting requirements as outlined in the April 25th Order.

The Commission issued a Notice on April 21, 2014, establishing content requirements for utilities' solar SES annual reports beginning June 1, 2014, and every

June 1 thereafter, through 2020. Additionally, the Commission's Notice established a comment period to receive comments on utilities' SES annual reports.

In response to the Commission Notice, IPL provides the following 2013 SES Annual Report:

II. 2013 SES ANNUAL REPORT

The Commission's Notice directed utilities to provide the following information:

1. Annual Minnesota retail sales for the previous calendar year.

IPL had retail sales of 857,176,543 kilowatt hours (kWh) in 2013.

2. Annual excluded customer sales for the previous calendar year.

IPL had 10,978,160 kWh excluded customer sales in 2013.

Please see **Trade Secret** Table 1 below, which provides a list of current customers IPL is excluding from its SES obligations under 216B.1691, subd. 2f(d)(1) and (2).

Table 1: IPL Customers Excluded from SES Obligations

Customer	Statutory Category	NAICS Code	2013 Consumption (kWh)
[TRADE SECRET DATA BEGINS			
[REDACTED]			

TRADE SECRET DATA ENDS]

- 3. A list of customers requesting exclusion from the requirements of the SES, the North American Industry Classification System (NAICS) code associated with their manufacturing activity, and their annual kWh usage.**

IPL did not have any customers request exclusion from the requirements of the SES in 2013.

- 4. The total Minnesota retail sales for customers excluded from the SES requirement.**

As shown above in **Trade Secret** Table 1, the total Minnesota retail sales for customers excluded from the SES requirement is 10,978,160 kWh.

- 5. Annual solar generation on the utilities' system for the previous calendar year (including the total number of units registered in M-RETs to that utility and S-RECs generated in the past year from those units).**

IPL did not have any kWh generated by solar generation on its system in 2013. IPL has never had any solar PV units registered in M-RETs, and thus no S-RECs were generated in 2013 or any prior year.

- 6. Estimated amount of solar generation (expressed as capacity) a utility would be required to meet the SES in 2020.**

Item 6 of IPL's *Initial Comments* filed with the Commission on August 14, 2013, in Docket No. E999/CI-13-542, established IPL's estimated 2020 retail sales after exclusions at 888,992,000 kWh. Based on this figure, 13,334,880 kWhs would be required to meet the 1.5 percent SES requirement; therefore, an estimated capacity of 7.5 megawatts (MW) would be the estimated amount of solar generation IPL would need to meet this requirement. Please see Table 2 below, which provides the

calculation for this amount. The calculation is based on using a capacity factor (CF) of 20.4 percent¹.

Table 2: IPL Solar Generation Capacity Calculation to Meet 2020 SES

$\frac{13,334,800 \text{ kWh}}{(8,760 \text{ hrs. per year})(0.204 \text{ CF})} = \frac{13,334,800 \text{ kWh}}{1,787 \text{ hrs. per year}} = 7,462 \text{ KW or } 7.5 \text{ MW}$

7. Estimated solar energy requirements to meet the SES in 2020.

Item 6 of IPL's *Initial Comments* filed with the Commission on August 14, 2013, in Docket No. E999/CI-13-542, established IPL's estimated 2020 retail sales after exclusions at 888,992,000 kWh. Based on this figure, 13,334,880 kWh would be required to meet the 1.5 percent SES requirement.

8. A short summary of ongoing efforts to obtain solar energy, including a brief summary of anticipated mix of project sizes for SES compliance.

IPL is evaluating the installation of community solar, utility-scale solar, developer-owned and operated solar with power purchase agreements, along with purchases in the S-REC market.

9. A summary of progress towards compliance with the ten percent carve out for systems under 20 kW.

IPL is assessing its opportunities towards meeting this requirement which may include revisions to an existing tariff or the development of a new tariff. Other options may present themselves as IPL develops plans to meet this requirement.

10. A brief summary of the state(s) in which solar generation is located or anticipated to be located.

¹ Electric Power Monthly, Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January-February 2014, U.S. Energy Information Administration, released April 22, 2014, http://www.eia.gov/electricity/monthly/epm_table_grapher.cfm?t=epmt_6_07_b.

Solar generation is currently located in IPL's Iowa and Minnesota service territories. Please see Table 3 below, which provides a summary of the solar generation located in these states. In total, IPL has 481 customers with more than 7 MW of installed solar generation. IPL anticipates growth of solar generation in both states.

Table 3: IPL Solar PV Generation as of May 1, 2014

Financial Arrangement	Minnesota		Iowa	
	Number of Customers	Total Rated Nameplate Capacity (KW)	Number of Customers	Total Rated Nameplate Capacity (KW)
Net Metering	10	73	442	6,216
Parallel	0	0	26	463
Power Purchase Agreement	0	0	3	332
Totals	10	73	471	7,011

11. **A breakdown of solar RECs generated in the previous calendar year under each of the following categories:**
- a. **Facilities receiving the Value of Solar Rate;**
 - b. **Community Solar Gardens;**
 - c. **Facilities under a Net metering tariff;**
 - d. **Utility-owned solar projects;**
 - e. **Solar Facilities that have entered into a PPA with the utility; and**
 - f. **Facilities receiving an incentive, such as SolarRewards or Made in Minnesota.**

As stated in IPL's response in Part 5 above, no S-RECs were generated in 2013 or any prior year, thus IPL's response to Parts a through f is zero.

III. CONCLUSION

WHEREFORE, IPL respectfully submits this 2013 SES Annual Report.

DATED this 2nd day of June, 2014.

Respectfully submitted,

Interstate Power and Light Company

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