2016 Net Metering Required Reporting Summary

Indiana's net metering rules became effective in March 2005 and established a minimum standard for the net metering offering required of utilities. It also set out the participation requirements for eligible customers and utilities. At the direction of the Indiana General Assembly, the Commission revised its rules in 2011 and raised the minimum standard offering by expanding the eligibility to more facilities and to all customer classes. At a minimum, as defined in 170 IAC 4-4.2, a net metering customer is a customer in good standing who owns and operates an eligible net metering energy resource[1] on their premises with a nameplate capacity[2] of less than or equal to 1 MW. This capacity must be used primarily to offset all or part of the customer's annual electricity requirements. The rule allows the utility to limit the offering to an aggregate amount of nameplate capacity of 1% of its summer peak load.

This report summarizes the net metering reports filed by each of the investor-owned utilities (IOU) in compliance with 170 IAC 4-4.2-9(c)[3].

> 170 IAC 4-4.2-9*(c) On or before March 1 of each year, each investor-owned electric utility shall file with the commission a net metering report. The net metering report shall contain the following:*
>
> *(1) The total number of eligible net metering customers and facilities.*
> *(2) The number, size, and type (solar, wind, hydro) of net metering facilities.*
> *(3) The number of new eligible net metering customers interconnected during the previous calendar year.*
> *(4) The number of existing eligible net metering customers that ceased participation in the net metering tariff during the previous calendar year.*
> *(5) If available, data on the amount of electricity generated by net metering facilities.*
> *(6) A list of any system emergency disconnections that occurred and an explanation of each system emergency.*

[1] Eligible net metering energy resources include wind, solar, hydro, fuel cells, hydrogen, organic waste biomass and dedicated crops powered generation [*170 IAC 4-4.2-1(d) and IC 8-1-37-4(a)(1)-(8)*].

[2] Nameplate capacity is the full-load continuous rating of a generator as designated by the manufacturer.

[3] The Commission instituted a standardized reporting structure for the utilities this year to better harmonize the data for the purpose of providing this high level summary of the composite net metering activity. A primary impact of this standardization is improved clarity regarding the terms facilities and customers. We note that the changeover has only minimal impacts on the comparability of current and historical data. The scale of any impact can be seen by comparing the total number of facilities and customers; 1152 to 1116.

Utility and statewide comparative data are presented on the following pages, while the individual utility net metering summary reports are included in Appendix A.

Summary of Figures and Tables[4],[5]

Figure 1	Number of customers and total capacity by year
Figure 2	Net Metering Capacity by resource type
Table 1	Nameplate Capacity by utility and by resource type
Table 2	Nameplate Capacity relative to 1% of peak load by utility
Table 3	Total Nameplate Capacity growth year over year
Table 4	Total Customer growth year over year
Table 5	Solar Nameplate Capacity growth year over year
Table 6	Wind Nameplate Capacity growth year over year
Table 7	Customer and Nameplate Capacity by customer class

[4] Values presented in the tables have been rounded to the nearest integer.

[5] Customers and capacity identified as dual (i.e. composed of both solar and wind) are grouped with the wind resources.

Figure 1. Number of customers and total capacity by year

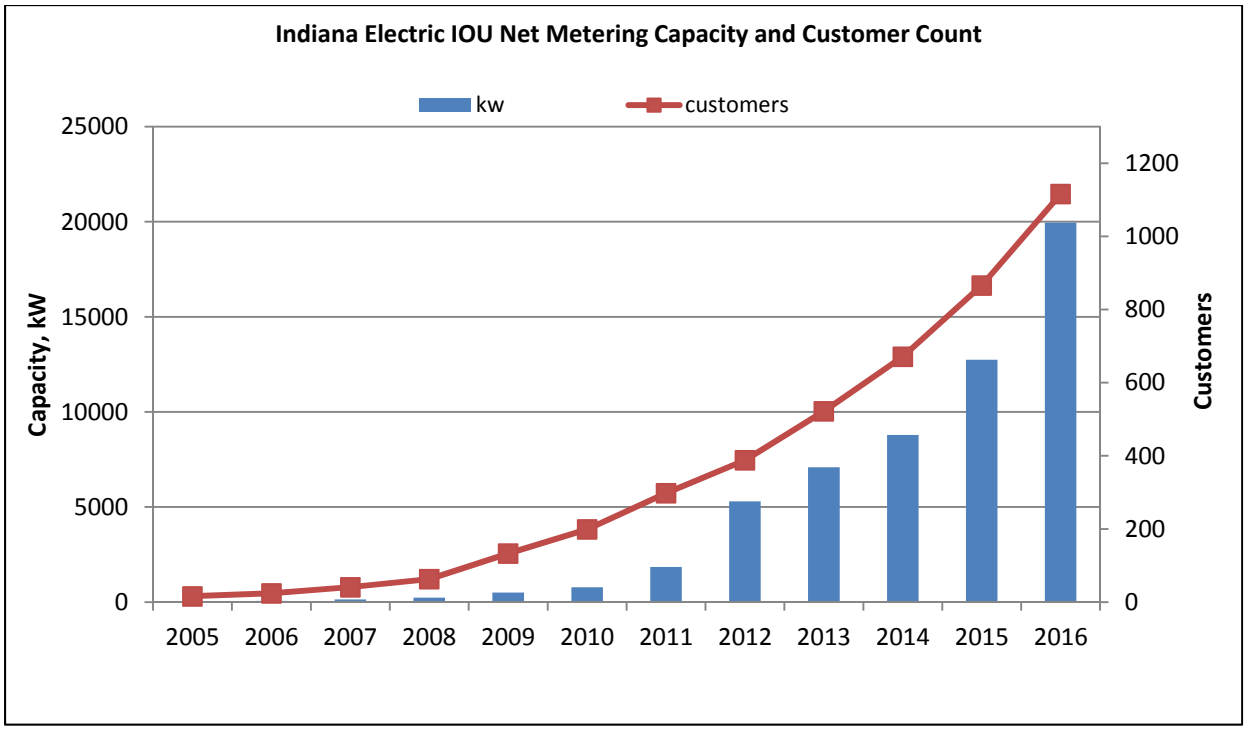

Figure 2. Net Metering Capacity by resource type

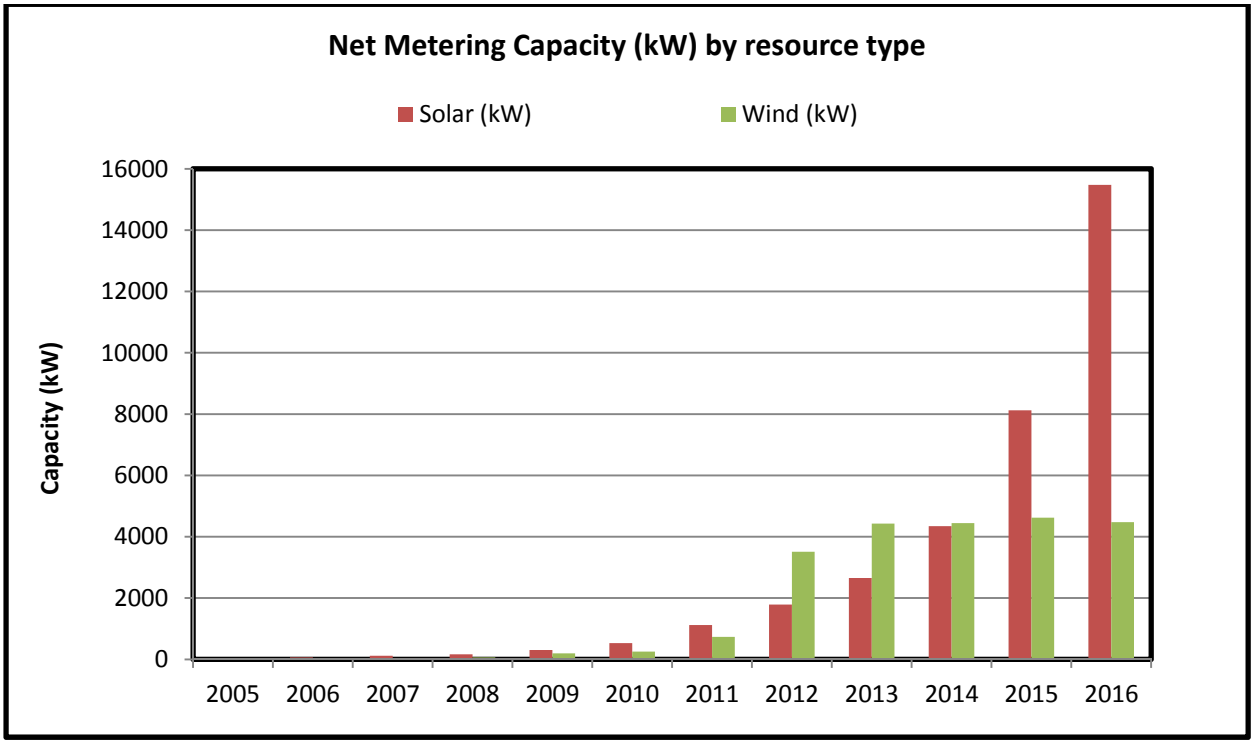

Table 1. Nameplate Capacity by utility and by resource type, 2016

	Total (kW)	Solar (kW)	Wind (kW)
Duke Energy Indiana	9,470	7,260	2,209
NIPSCO	4,884	2,831	2,053
Vectren	2,067	2,051	16
I&M	1,895	1,748	147
IPL	1,636	1,586	50
Total	**19,952**	**15,476**	**4,476**

Table 2. Nameplate Capacity relative to 1% peak load by utility

	2016 Capacity (MW)	2015 Summer peak load (MW)[6]	Percent of peak (%)
Vectren	2	1,222	0.17%
Duke Energy Indiana	9	5,748	0.16%
NIPSCO	5	3,055	0.16%
IPL	2	2,706	0.06%
I&M	2	4,398	0.04%
Total	**20**	**17,129**	**0.12%[7]**

[6] Summer peak load is the peak monthly demand for each utility reflected on its FERC Form 1 at page 401b.

[7] Statewide weighted average.

Table 3. Total Nameplate Capacity growth year over year

	Capacity (kW)	% change from previous year	Absolute change from previous year (kW)
2005	23		
2006	66	188%	43
2007	140	111%	74
2008	233	66%	92
2009	504	117%	271
2010	783	55%	280
2011	1,852	136%	1,068
2012	5,297	186%	3,445
2013	7,087	34%	1,790
2014	8,791	24%	1,704
2015	12,742	45%	3,951
2016	19,952	57%	7,210

Table 4. Customer growth year over year

	Participating Customers	% change from previous year	Absolute change from previous year
2005	16		
2006	24	50%	8
2007	41	71%	17
2008	63	54%	22
2009	133	111%	70
2010	199	50%	66
2011	298	50%	99
2012	388	30%	90
2013	522	35%	134
2014	671	29%	149
2015	866	29%	195
2016	1,116	29%	250

Table 5. Solar Nameplate Capacity growth year over year

	Capacity (kW)	% change from previous year	Absolute change from previous year (kW)
2005	23		
2006	66	188%	43
2007	121	83%	55
2008	167	38%	46
2009	307	84%	140
2010	529	72%	221
2011	1,119	112%	591
2012	1,789	60%	670
2013	2,657	49%	868
2014	4,346	64%	1,689
2015	8,123	87%	3,777
2016	15,476	91%	7,353

Table 6. Wind Nameplate Capacity growth year over year

	Capacity (kW)	% change from previous year	Absolute change from previous year (kW)
2005	0		
2006	0		
2007	19		19
2008	65	243%	46
2009	196	202%	131
2010	255	30%	58
2011	732	187%	477
2012	3,509	379%	2,777
2013	4,431	26%	922
2014	4,446	0%	15
2015	4,620	4%	174
2016	4,476	-3%	-144

Table 7. Customer and Nameplate Capacity by customer class

	Duke	I&M	IPL	NIPSCO	Vectren	Total
Residential Customers	412	113	88	105	176	**894**
Residential kW	2,591	682	484	660	1,571	**5,988**
Commercial Customers	64	43	13	34	19	**173**
Commercial kW	2,040	1,043	152	2,269	483	**5,988**
Industrial Customers	6	1	1	0	0	**8**
Industrial kW	207	17	1,000	0	0	**1,224**
School Customers[8]	25	7	0	7	2	**41**
School kW	4,631	153	0	1,955	12	**6,752**
Total Customers	507	164	102	146	197	**1,116**
Total kW	9,470	1,895	1,636	4,884	2,067	**19,952**

[8] School customers includes both K-12 and higher learning institutions.

Appendix A; IOU Submitted Net Metering Summary Reports

Indiana Utility Regulatory Commission – Net Metering Report Summary

Utility Name:	Duke Energy Indiana, LLC
Contact Name:	
Phone Number:	
Email:	
Calendar Year:	2016
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Customers:	507
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Facilities:	537
Number and Size of Solar Facilities – aggregate capacity:	504 facilities, 7260.478 kW
Number and Size of Wind Facilities – aggregate capacity:	33 facilities, 2209.4 kW
Number and Size of Hydro Facilities – aggregate capacity:	0
Number and Size of Other Qualifying Facilities – aggregate capacity:	0
Number of New Net Metering Customer Interconnections:	112
Number of Previous Net Metering Customers (who left the program in the calendar year):	1
Data on the Amount of Electricity Generated by Net Metering Facilities (net) (if available):	not available
List Any System Emergency Disconnections that occurred, and an explanation of each:	none

Total Number of Eligible Net Metering Customers by Customer Class:			
	Number of Customers:	**kW**	**Customer Class**
	412	2590.809	Residential
	64	2040.449	Commercial
	6	207.22	Industrial
	25	4631.4	Schools
Total	507	9469.878	

Indiana Utility Regulatory Commission – Net Metering Report Summary

Utility Name:	Indiana Michigan Power Company
Contact Name:	Andrew J. Williamson
Phone Number:	260-408-3401
Email:	ajwilliamson@aep.com
Calendar Year:	2016
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Customers:	164
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Facilities:	165
Number and Size of Solar Facilities – aggregate capacity:	126 customer-1,748kW
Number and Size of Wind Facilities – aggregate capacity:	39 customers-147kW
Number and Size of Hydro Facilities – aggregate capacity:	-0-
Number and Size of Other Qualifying Facilities – aggregate capacity:	-0-
Number of New Net Metering Customer Interconnections:	44
Number of Previous Net Metering Customers (who left the program in the calendar year):	3
Data on the Amount of Electricity Generated by Net Metering Facilities (net) (if available):	N/A
List Any System Emergency Disconnections that occurred, and an explanation of each:	None

Total Number of Eligible Net Metering Customers by Customer Class:

	Number of Customers:	**kW**	**Customer Class**
	113	682	Residential
	43	1,043	Commercial
	1	17	Industrial
	7	153	Schools (Commercial)
Total	164	1,895	

Indiana Utility Regulatory Commission – Net Metering Report Summary

Utility Name:	Indianapolis Power & Light Company
Contact Name:	John E. Haselden
Phone Number:	(317) 261-6629
Email:	John.haselden@aes.com
Calendar Year:	2016
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Customers:	102
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Facilities:	102
Number and Size of Solar Facilities – aggregate capacity:	101 -1,586 kW
Number and Size of Wind Facilities – aggregate capacity:	1 – 50 kW
Number and Size of Hydro Facilities – aggregate capacity:	0
Number and Size of Other Qualifying Facilities – aggregate capacity:	0
Number of New Net Metering Customer Interconnections:	24
Number of Previous Net Metering Customers (who left the program in the calendar year):	1
Data on the Amount of Electricity Generated by Net Metering Facilities (net) (if available):	216,360 kWh (Net)
List Any System Emergency Disconnections that occurred, and an explanation of each:	None

Total Number of Eligible Net Metering Customers by Customer Class:			
	Number of Customers:	**kW**	**Customer Class**
	88	484	Residential
	13	152	Commercial
	1	1,000	Industrial
	0	0	Schools
Total	102	1,636	

Indiana Utility Regulatory Commission – Net Metering Report Summary

Utility Name:	Northern Indiana Public Service Company
Contact Name:	Timothy R. Caister
Phone Number:	317.684.4908
Email:	tcaister@nisource.com
Calendar Year:	2016
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Customers:	146
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Facilities:	151
Number and Size of Solar Facilities – aggregate capacity:	113 facilities, 2831.0 kW
Number and Size of Wind Facilities – aggregate capacity:	27 facilities, 1900.4 kW
Number and Size of Hydro Facilities – aggregate capacity:	0
Number and Size of Other Qualifying Facilities – aggregate capacity:	11 solar/wind facilities, 152.6 kW
Number of New Net Metering Customer Interconnections:	51
Number of Previous Net Metering Customers (who left the program in the calendar year):	1
Data on the Amount of Electricity Generated by Net Metering Facilities (net) (if available):	2,344,736 kWh (net)
List Any System Emergency Disconnections that occurred, and an explanation of each:	None

Total Number of Eligible Net Metering Customers by Customer Class:			
	Number of Customers:	**kW**	**Customer Class**
	105	659.6	Residential
	34	2269.4	Commercial
	0	0	Industrial
	7	1955.0	Schools
Total	146	4884.0	

Indiana Utility Regulatory Commission – Net Metering Report Summary

Utility Name:	Southern Indiana Gas and Electric d/b/a Vectren Energy Delivery of Indiana
Contact Name:	Amanda Schmitt
Phone Number:	812-491-4316
Email:	aschmitt@vectren.com
Calendar Year:	2016
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Customers:	197
Total Number of Eligible (i.e., participating on 12/31 of reporting year) Net Metering Facilities:	197
Number and Size of Solar Facilities – aggregate capacity:	194-2050.905 kW total
Number and Size of Wind Facilities – aggregate capacity:	3- 16.2 kW total
Number and Size of Hydro Facilities – aggregate capacity:	N/A
Number and Size of Other Qualifying Facilities – aggregate capacity:	N/A
Number of New Net Metering Customer Interconnections:	66
Number of Previous Net Metering Customers (who left the program in the calendar year):	3
Data on the Amount of Electricity Generated by Net Metering Facilities (net) (if available):	N/A
List Any System Emergency Disconnections that occurred, and an explanation of each:	None

Total Number of Eligible Net Metering Customers by Customer Class:			
	Number of Customers:	**kW**	**Customer Class**
	176	1571.27	Residential
	19	483.435	Commercial
	0	0	Industrial
	2	12.4	Schools
Total	197	2067.105	