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**HOOSIER**ENERGY

DEMAND SIDE MANAGEMENT

2020 ANNUAL REPORT

# 2020 DEMAND SIDE MANAGEMENT (DSM)

## OVERVIEW

In a year defined by unpredictability, Hoosier Energy's Demand Side Management (DSM) Program exceeded expectations and assisted member-consumers in new ways across southern Indiana and southeastern Illinois during 2020. Marking its 12th year, the DSM Program continued a legacy of providing energy savings and load control opportunities for all 18 member cooperatives and their member-consumers. These solutions allow residential, commercial, industrial, and agricultural members to manage their energy consumption, while providing Hoosier Energy's system with cost savings in the generation capacity market.

As part of a company strategic priority to meet member cooperative and consumer needs, the DSM Sub-Committee was founded in 2020 with participating member cooperatives and Hoosier Energy staff serving as ambassadors for future programming decisions. The sub-committee evaluated, assessed, and provided recommendations to leadership on the future of the DSM program portfolio. Beginning in late February, the sub-committee worked diligently through the summer to provide recommendations in late August that focused on three strategic goals for all future DSM programs or pilots:

1. Beneficial electrification initiatives
2. Member engagement and satisfaction
3. Being a trusted energy partner

With a strategic vision in place, new DSM pilots were launched, and others were discontinued in 2020. The ecobee Smart Thermostat Pilot, in partnership with Jackson County REMC, NRECA, and ecobee, recognized vast potential in the demand response and smart home technology field. Appliance Recycling and LED Security Lighting programs were both discontinued in May to make way for cost savings and investment in new ventures.

In total, 2020 DSM programs accounted for MWh and MW savings across the portfolio. Power reduction in energy savings amounted to 14,224 MWh, a 7.72 MW reduction in winter-peak demand and a 5.2 MW reduction in summer-peak demand. The DSM Program will continue to shine bright within Hoosier Energy as the vision of progressive member engagement sparks innovation and enthusiasm.

### 2020 DSM PROGRAM SUMMARY

Program	Total Units Collected	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Appliance Recycling	340	348	0.04	0.05
Commercial & Industrial	88	7,001	2.87	2.87
LED Security Lighting	2,147	1,119	0.26	0.09
Residential HVAC	1,780	3,878	3.17	0.73
Residential Lighting	41,612	1,103	1.21	1.21
Energy Management Switch	102	0	0.02	0.10
Energy Kits (Other Savings)	8,500	1,394	0.16	0.15
<b>Total</b>	<b>54,569</b>	<b>14,843</b>	<b>7.72</b>	<b>5.20</b>

## Commercial and Industrial Program

Member-consumer businesses and operations across southern Indiana and southeastern Illinois have continued to improve their bottom line by applying energy efficiency measures. Participants have also recognized the benefit of increased operating efficiencies. The Commercial and Industrial (C&I) Program incentivizes commercial businesses of all sizes, as well as agricultural and industrial member-consumers, in their quest for energy savings and demand reduction. The program offered up to a maximum of \$50,000 per consumer to assist in upgrades for LED lighting, HVAC systems, motors and variable frequency drives (VFD), as well as compressed air systems in 2020.

### 2020 COMMERCIAL AND INDUSTRIAL PROGRAMS

Cooperative	Total Applications Paid	Annual MWh Savings	Winter Demand MW	Summer Demand MW
Bartholomew County REMC	3	261	0.03	0.03
Clark County REMC	3	72	0.02	0.02
Daviess-Martin County REMC	1	1	0.00	0.00
Decatur County REMC	2	45	0.02	0.02
Dubois REC	11	366	0.21	0.21
Harrison REMC	7	286	0.13	0.13
Henry County REMC	6	303	0.13	0.13
Jackson County REMC	15	2,176	1.59	1.60
Johnson County REMC	4	125	0.03	0.03
Orange County REMC	1	21	0.01	0.01
RushShelby Energy REMC	4	292	0.05	0.05
South Central Indiana REMC	10	1,975	0.30	0.30
Southeastern Indiana REMC	5	79	0.02	0.02
Southern Indiana Power	1	21	0.01	0.01
Utilities District of Western Indiana REMC	5	533	0.19	0.19
Wayne-White Counties Electric Cooperative	2	35	0.02	0.02
Whitewater Valley REMC	1	14	0.01	0.01
WIN Energy REMC	7	395	0.11	0.11
<b>Total</b>	<b>88</b>	<b>7,001</b>	<b>2.87</b>	<b>2.87</b>





## Lighting Programs

Light-emitting diodes, more commonly known as LEDs, are not a new technology, but the efficiencies tied to these products continue to expand and bring energy savings to consumers in their homes and workplaces. In 2020, Hoosier Energy offered its bulk bulb distribution to each member cooperative, at no cost to member-consumers, for the program's final year of operation. In a decision to meet member-consumer needs and focus on new, emerging technologies, this program discontinued at the end of the calendar year.

The Online Lighting Store provided member-consumers with another year of discounts on an array of LED products. Member-consumers saved \$86,197 in rebates in 2020. Going forward, discounts on LED products have ended, but free shipping, warranties, and addition of smart technology products will provide consumers with a secure place to shop for their energy efficiency needs.

### 2020 RESIDENTIAL LIGHTING PROGRAM

Cooperative	Total Units	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Bartholomew County REMC	794	21	0.02	0.02
Clark County REMC	5,425	144	0.16	0.16
Daviess-Martin County REMC	720	19	0.02	0.02
Decatur County REMC	1,104	29	0.03	0.03
Dubois REC	6,851	182	0.20	0.20
Harrison REMC	4,748	126	0.14	0.14
Henry County REMC	1,235	33	0.04	0.04
Jackson County REMC	1,913	51	0.06	0.06
Johnson County REMC	1,785	47	0.05	0.05
Orange County REMC	2,333	62	0.07	0.07
RushShelby Energy REMC	1,667	44	0.05	0.05
South Central Indiana REMC	1,529	41	0.04	0.04
Southeastern Indiana REMC	3,065	81	0.09	0.09
Southern Indiana Power	2,264	60	0.07	0.07
Utilities District of Western Indiana REMC	180	5	0.01	0.01
Wayne-White Counties Electric Cooperative	1,126	30	0.03	0.03
Whitewater Valley REMC	1,443	38	0.04	0.04
WIN Energy REMC	3,430	91	0.10	0.10
<b>Total</b>	<b>41,612</b>	<b>1,103</b>	<b>1.21</b>	<b>1.21</b>

## Energy Efficiency Kits Program

To educate and influence energy-efficient purchase behavior for member-consumers, Hoosier Energy provides each member cooperative with an annual allotment of up to 1,000 energy efficiency kits. These kits include LED bulbs, LED nightlights, foam outlet and wall plate gaskets, and additional self-install energy-saving items. Due to COVID-19 impacts in 2020 and limited in-person interaction with member-consumers, the Energy Efficiency Kit Program recognized a significant reduction in participation.

### 2020 ENERGY EFFICIENCY KITS

Cooperative	Total Kits	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Bartholomew County REMC	500	82	0.01	0.01
Clark County REMC	1,000	164	0.02	0.02
Daviess-Martin County REMC	0	0	0.00	0.00
Decatur County REMC	0	0	0.00	0.00
Dubois REC	0	0	0.00	0.00
Harrison REMC	1,000	164	0.02	0.02
Henry County REMC	500	82	0.01	0.01
Jackson County REMC	1,000	164	0.02	0.02
Johnson County REMC	1,000	164	0.02	0.02
Orange County REMC	500	82	0.01	0.01
RushShelby Energy REMC	500	82	0.01	0.01
South Central Indiana REMC	1,000	164	0.02	0.02
Southeastern Indiana REMC	1,000	164	0.02	0.02
Southern Indiana Power	0	0	0.00	0.00
Utilities District of Western Indiana REMC	0	0	0.00	0.00
Wayne-White Counties Electric Cooperative	0	0	0.00	0.00
Whitewater Valley REMC	500	82	0.01	0.01
WIN Energy REMC	0	0	0.00	0.00
<b>Total</b>	<b>8,500</b>	<b>1,394</b>	<b>0.16</b>	<b>0.15</b>

## Residential HVAC Rebates

Residential heating and cooling rebates continue to be a program staple in the DSM portfolio at Hoosier Energy. Member-consumers across the service territory gained significant energy savings with the installation of new geothermal, air-source heat pumps, heat-pump water heaters, and mini-split heat pump technologies. Incentives are based on high-efficient, market-leading models to promote increased comfort, lower fuel costs, and environmentally friendly equipment.

### 2020 RESIDENTIAL HVAC PROGRAM

Cooperative	Total Measures Installed	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Bartholomew County REMC	83	188	0.17	0.04
Clark County REMC	245	356	0.17	0.08
Daviess-Martin County REMC	42	134	0.10	0.02
Decatur County REMC	44	134	0.16	0.02
Dubois REC	63	162	0.16	0.03
Harrison REMC	209	207	0.16	0.08
Henry County REMC	26	64	0.04	0.01
Jackson County REMC	240	580	0.42	0.08
Johnson County REMC	51	94	0.07	0.02
Orange County REMC	54	176	0.12	0.03
RushShelby Energy REMC	59	166	0.14	0.03
South Central Indiana REMC	196	449	0.44	0.09
Southeastern Indiana REMC	162	467	0.42	0.08
Southern Indiana Power	55	143	0.09	0.02
Utilities District of Western Indiana REMC	73	180	0.17	0.03
Wayne-White Counties Electric Cooperative	78	148	0.17	0.03
Whitewater Valley REMC	44	86	0.07	0.02
WIN Energy REMC	56	146	0.12	0.02
<b>Total</b>	<b>1780</b>	<b>3,878</b>	<b>3.17</b>	<b>0.73</b>

## Appliance Recycling Program

Since 2016, Hoosier Energy, its member cooperatives, and Southern Indiana Habitat for Humanity ReStores have teamed up to offer a highly successful and beneficial Appliance Recycling Program to member-consumers. In May 2020, this program was suspended for COVID-19 precautions, and going forward, it was decided to discontinue the program to make way for future member program investments and opportunities. Hoosier Energy thanks the Habitat for Humanity ReStore organizations for their valuable partnership and look forward to new ways to assist communities in the future.

### 2020 APPLIANCE RECYCLING PROGRAM

Cooperative	Total Units Collected	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Bartholomew County REMC	5	5	0.00	0.00
Clark County REMC	45	46	0.00	0.01
Daviess-Martin County REMC	10	10	0.00	0.00
Decatur County REMC	2	2	0.00	0.00
Dubois REC	30	30	0.00	0.00
Harrison REMC	45	47	0.00	0.01
Henry County REMC	11	11	0.00	0.00
Jackson County REMC	76	79	0.01	0.01
Johnson County REMC	-	-	-	-
Orange County REMC	1	1	0.00	0.00
RushShelby Energy REMC	15	15	0.00	0.00
South Central Indiana REMC	23	24	0.00	0.00
Southeastern Indiana REMC	34	34	0.00	0.01
Southern Indiana Power	15	15	0.00	0.00
Utilities District of Western Indiana REMC	17	18	0.00	0.00
Wayne-White Counties Electric Cooperative	-	-	-	-
Whitewater Valley REMC	7	7	0.00	0.00
WIN Energy REMC	4	4	0.00	0.00
<b>Total</b>	<b>340</b>	<b>348</b>	<b>0.04</b>	<b>0.05</b>

## Smart Thermostat Pilot

The ecobee Smart Thermostat Pilot is designed to install WiFi thermostats in participating members-consumers' homes. The pilot implements a demand-response operating system, which provides a 12-month load management strategy for controlling critical and coincident peak demand, while teaching the member-consumer about new smart device technology. In a partnership with Jackson County REMC, this pilot recognized significant demand reduction savings in its first summer load control season. Winter load control data was still being collected at the time of this report's distribution.



## Energy Management Savings Switch Program

The Energy Management Savings Switch Program continues to offer system-wide demand response in load control events during the peak hours in three summer months (June through August) and three winter months (December through February). Technology and software innovations have continued to reduce the number of installed demand-response units (DRU) at member cooperatives. Significant alterations for continued operation of this program will be evaluated and determined in 2021.

### 2020 ENERGY MANAGEMENT SAVINGS SWITCH PROGRAM

Cooperative	Total Devices Controlled	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Bartholomew County REMC	-	-	0.00	0.00
Clark County REMC	-	-	0.00	0.00
Daviess-Martin County REMC	-	-	0.00	0.00
Decatur County REMC	-	-	0.00	0.00
Dubois REC	24	-	0.01	0.02
Harrison REMC	-	-	0.00	0.00
Henry County REMC	-	-	0.00	0.00
Jackson County REMC	-	-	0.00	0.00
Johnson County REMC	-	-	0.00	0.00
Orange County REMC	-	-	0.00	0.00
RushShelby Energy REMC	-	-	0.00	0.00
South Central Indiana REMC	-	-	0.00	0.00
Southeastern Indiana REMC	72	-	0.01	0.07
Southern Indiana Power	6	-	0.00	0.01
Utilities District of Western Indiana REMC	-	-	0.00	0.00
Wayne-White Counties Electric Cooperative	-	-	0.00	0.00
Whitewater Valley REMC	-	-	0.00	0.00
WIN Energy REMC	-	-	0.00	0.00
<b>Total</b>	<b>102</b>	<b>0.00</b>	<b>0.02</b>	<b>0.10</b>

## LED Security Lighting Program

Within outdoor security lighting products, LEDs remain the industry leader in improved visibility and safety for member-consumer homes and properties. By installing LED security lights, member-consumers also recognize a significant reduction in energy consumption, reduced maintenance costs, and improved lighting output compared to legacy mercury-vapor or high-pressure sodium alternatives. The LED Security Lighting Program offered \$50 per light incentives to member cooperatives to offset installation costs. In its final year of operation, the program has provided plentiful savings with over 20,520 MWh saved and 32,748 security lights installed since 2009.

### 2020 SECURITY LIGHTING PROGRAM

Cooperative	Total Measures Installed	Annual MWh Savings	Winter Demand Savings	Summer Demand Savings
Bartholomew County REMC	26	5	0.00	0.00
Clark County REMC	154	81	0.02	0.01
Daviess-Martin County REMC	0	0	0.00	0.00
Decatur County REMC	29	15	0.00	0.00
Dubois REC	313	164	0.04	0.01
Harrison REMC	43	23	0.01	0.00
Henry County REMC	56	29	0.01	0.00
Jackson County REMC	254	133	0.03	0.01
Johnson County REMC	136	71	0.02	0.01
Orange County REMC	54	28	0.01	0.00
RushShelby Energy REMC	56	29	0.01	0.00
South Central Indiana REMC	109	57	0.01	0.00
Southeastern Indiana REMC	501	263	0.06	0.02
Southern Indiana Power	-	-	-	-
Utilities District of Western Indiana REMC	59	31	0.01	0.00
Wayne-White Counties Electric Cooperative	148	78	0.02	0.01
Whitewater Valley REMC	72	38	0.01	0.00
WIN Energy REMC	137	72	0.02	0.01
<b>Total</b>	<b>2147</b>	<b>1,119</b>	<b>0.26</b>	<b>0.09</b>

## Analysis of Measures Installed: 2009-2020

The average lifetime cost of energy conserved to date through DSM measures is just under \$0.02 per kWh, well below the cost to provide power from traditional resources.\*

DSM programs are evaluated using a Total Resource Cost (TRC) test that compares avoided energy and capacity savings to the costs of the efficiency measure or program, including cost borne by consumers.

Benefits detailed in the TRC test include avoided supply costs, such as reductions in capital and O&M costs for generation, transmission, and distribution facilities and operations.

A TRC ratio higher than 1.0 indicates program benefits exceed program costs. For all programs to date, lifetime economic benefits outweighed costs by a ratio of 1.62 to 1.\*\*

This ratio suggests that \$1.62 in long-term benefits were obtained for each \$1 invested in efficiency programs.

\* Formula for cost per kWh is (Hoosier Energy Cost + Participant Cost) / (Estimated Lifetime MWh Savings \* 1000)  
Example: (\$40,601,319 + \$49,936,909) / (4,238,895 x 1000) = \$0.0214

\*\* Formula for TRC is Lifetime Economic Benefit / Hoosier Energy Cost + Participant Cost  
Example: \$190,763,021 / (\$40,601,319 + \$49,936,909) = \$2.11 or TRC ratio 2.11 to 1

### ESTIMATED BENEFITS AND COSTS FOR ALL MEASURES INSTALLED: 2009-2020<sup>1</sup>

Program	Total Measures Installed to Date	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Appliance Recycling <sup>4</sup>	12,137	12,166	93,495	4.11	4.85
Commercial & Industrial	1,231	139,879	1,987,596	25.35	24.55
LED Security Lighting	32,748	20,520	370,470	1.76	0.53
Residential HVAC	38,014	61,312	913,070	50.89	14.75
Residential Lighting	1,938,926	58,481	608,118	15.86	7.62
Energy Management Switch	16,960	0	0	7.67	12.27
Other Savings <sup>2</sup>	73,558	19,392	185,305	4.37	2.34
Weatherization <sup>3</sup>	4,061	19,285	479,329	3.28	4.81
Touchstone Energy Home	576	2824	65,472	0.57	0.55
<b>Total</b>	<b>2,118,211</b>	<b>333,859</b>	<b>4,702,855.93</b>	<b>113.85</b>	<b>66.91</b>

Program	Hoosier Energy Costs	Participant Costs	Lifetime Economic Benefits	Cost/kWh	Total Resource Cost (TRC)
Appliance Recycling	\$1,327,926.00	\$0.00	\$2,733,322.00	0.01	2.06
Commercial & Industrial	\$5,763,356.04	\$36,054,327.00	\$105,096,136.00	0.02	2.51
LED Security Lighting	\$2,463,203.00	\$3,759,349.00	\$16,069,661.00	0.02	2.58
Residential HVAC	\$13,366,609.00	\$38,855,282.00	\$34,067,562.00	0.06	0.65
Residential Lighting	\$6,903,436.13	\$7,324,049.50	\$29,883,705.00	0.02	2.10
Energy Management Switch	\$2,965,890.00	\$0.00	\$5,968,317.00	0.00	2.01
Other Savings (Energy Efficiency Kits)	\$2,987,785.91	\$315,183.00	\$4,523,029.00	0.02	1.37
Weatherization	\$9,078,275.00	\$0.00	\$15,084,780.00	0.02	1.66
Touchstone Energy Home	\$599,356.00	\$940,782.00	\$1,972,585.00	0.02	1.28
<b>Total</b>	<b>\$45,455,837.08</b>	<b>\$87,248,972.50</b>	<b>\$215,399,097.00</b>	<b>0.19</b>	<b>1.62</b>

<sup>1</sup>Appendix B measures are shown at generation levels. A 9% transmission and distribution loss is factored into estimates.

<sup>2</sup>Other Savings include Deferred Weatherization Program benefits and Energy Efficiency Kits.

<sup>3</sup>Weatherization program includes 1,393 homes on member systems weatherized through the American Recovery and Reinvestment Act Program 2009-2011.

<sup>4</sup>Appliance Recycling program retired April 2020.

## COMMERCIAL &amp; INDUSTRIAL ENERGY EFFICIENCY PROGRAM: 2009–2020

Cooperative	Total Applications Paid	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	82	18,680	328,477	3.39	3.31
Clark County REMC	78	5,445	79,651	1.05	0.97
Daviess–Martin County REMC	46	3,293	35,735	0.66	0.66
Decatur County REMC	51	4,560	62,652	0.77	0.75
Dubois REC	114	8,010	88,759	1.31	1.22
Harrison REMC	76	6,510	94,858	1.12	1.08
Henry County REMC	34	1,773	24,414	0.47	0.42
Jackson County REMC	134	4,830	69,766	2.11	2.16
Johnson County REMC	92	9,666	134,767	1.77	1.67
Orange County REMC	21	1,327	18,961	0.32	0.33
RushShelby Energy REMC	44	9,877	138,936	1.17	1.13
South Central Indiana REMC	96	5,574	79,960	0.84	0.80
Southeastern Indiana REMC	50	5,835	55,866	0.89	0.85
Southern Indiana Power	77	13,151	189,481	3.48	3.45
Utilities District of Western Indiana REMC	75	23,118	341,477	3.15	2.93
Wayne–White Counties Electric Cooperative	27	2,545	24,536	0.58	0.56
Whitewater Valley REMC	36	2,076	31,494	0.30	0.30
WIN Energy REMC	99	13,609	187,805	1.97	1.97
<b>Total</b>	<b>1,232</b>	<b>139,878</b>	<b>1,987,596</b>	<b>25.35</b>	<b>24.55</b>

Measures for the C&I Energy Efficiency Program are listed in terms of rebate applications paid.

## RESIDENTIAL LIGHTING PROGRAM: 2009–2020

Cooperative	Total Units	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	119,372	3,926	35,865	0.95	0.44
Clark County REMC	348,334	10,298	106,920	2.85	1.27
Daviess–Martin County REMC	111,066	1,832	33,836	0.54	0.24
Decatur County REMC	48,819	1,146	14,534	0.37	0.20
Dubois REC	146,735	4,531	49,655	1.33	0.75
Harrison REMC	140,119	5,387	46,134	1.28	0.63
Henry County REMC	66,133	1,762	19,566	0.47	0.22
Jackson County REMC	115,570	3,564	35,593	1.03	0.45
Johnson County REMC	97,018	3,143	30,767	0.80	0.38
Orange County REMC	74,550	2,422	22,744	0.69	0.33
RushShelby Energy REMC	66,149	1,704	21,029	0.51	0.09
South Central Indiana REMC	68,393	1,940	22,616	0.14	0.11
Southeastern Indiana REMC	113,308	3,251	34,936	0.94	0.44
Southern Indiana Power	15,347	3,506	38,069	0.90	0.46
Utilities District of Western Indiana REMC	14,992	4,017	34,903	1.00	0.43
Wayne–White Counties Electric Cooperative	76,315	2,700	25,963	0.71	0.32
Whitewater Valley REMC	79,021	2,142	23,617	0.56	0.27
WIN Energy REMC	35,032	1,211	11,645	0.35	0.23
<b>Total</b>	<b>1,736,273</b>	<b>58,480</b>	<b>608,392</b>	<b>15.42</b>	<b>7.26</b>

## LED SECURITY LIGHTING PROGRAM: 2009–2020

Cooperative	Total Measures Installed	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	655	400	8,604	0.04	0.02
Clark County REMC	1,358	863	20,100	0.10	0.03
Daviess-Martin County REMC	55	29	899	0.00	0.00
Decatur County REMC	1,026	711	11,041	0.05	0.02
Dubois REC	1,738	1,095	20,293	0.13	0.04
Harrison REMC	2,538	1,596	28,029	0.13	0.03
Henry County REMC	2,143	1,389	25,300	0.08	0.02
Jackson County REMC	3,189	1,938	34,777	0.18	0.05
Johnson County REMC	2,609	1,633	30,278	0.13	0.04
Orange County REMC	833	499	9,293	0.04	0.01
RushShelby Energy REMC	931	583	10,465	0.05	0.02
South Central Indiana REMC	1,465	823	16,435	0.07	0.03
Southeastern Indiana REMC	4,070	2,451	41,243	0.22	0.06
Southern Indiana Power	1,464	1,031	15,715	0.07	0.02
Utilities District of Western Indiana REMC	1,488	936	15,782	0.07	0.02
Wayne-White Counties Electric Cooperative	2,338	1,477	25,414	0.12	0.04
Whitewater Valley REMC	2,188	1,412	23,084	0.11	0.04
WIN Energy REMC	2,660	1,656	33,717	0.16	0.04
<b>Total</b>	<b>32,748</b>	<b>20,520</b>	<b>370,470</b>	<b>1.75</b>	<b>0.52</b>

## OTHER SAVINGS: 2009–2020

Cooperative	Total Kits	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	3,421	1,021	9,326	0.20	0.10
Clark County REMC	5,986	1,295	13,427	0.23	0.11
Daviess-Martin County REMC	2,637	620	6,939	0.11	0.05
Decatur County REMC	1,939	539	4,627	0.11	0.05
Dubois REC	1,447	462	4,010	0.10	0.04
Harrison REMC	6,511	1,985	15,764	0.49	0.28
Henry County REMC	3,511	1,085	9,771	0.22	0.10
Jackson County REMC	5,800	1,297	14,675	0.21	0.10
Johnson County REMC	6,800	1,895	17,627	0.37	0.18
Orange County REMC	3,431	1,034	9,415	0.20	0.10
RushShelby Energy REMC	3,218	837	7,909	0.16	0.08
South Central Indiana REMC	8,563	1,789	16,885	0.92	0.71
Southeastern Indiana REMC	7,242	2,112	19,146	0.42	0.20
Southern Indiana Power	1,510	436	3,827	0.10	0.04
Utilities District of Western Indiana REMC	4,505	1,095	12,474	0.20	0.08
Wayne-White Counties Electric Cooperative	1,537	286	4,098	0.03	0.01
Whitewater Valley REMC	3,400	1,044	9,455	0.21	0.09
WIN Energy REMC	2,100	560	5,931	0.11	0.05
<b>Total</b>	<b>73,558</b>	<b>19,392</b>	<b>185,305</b>	<b>4.37</b>	<b>2.34</b>

Other Savings includes Energy Efficiency Kits and Deferred Weatherization program benefits. Savings for installed measures will continue to contribute to program savings for the duration of deemed useful life.

## ENERGY MANAGEMENT SAVINGS SWITCH PROGRAM: 2009-2020

Cooperative	Total Devices Controlled	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	195	0.00	0.00	0.10	0.15
Clark County REMC	0	0.00	0.00	0.00	0.00
Daviess-Martin County REMC	1,191	0.00	0.00	0.44	0.99
Decatur County REMC	200	0.00	0.00	0.18	0.09
Dubois REC	874	0.00	0.00	0.17	0.38
Harrison REMC	1,885	0.00	0.00	0.80	1.50
Henry County REMC	958	0.00	0.00	0.38	0.78
Jackson County REMC	1,205	0.00	0.00	0.39	0.89
Johnson County REMC	0	0.00	0.00	0.00	0.00
Orange County REMC	1,870	0.00	0.00	0.98	1.14
RushShelby Energy REMC	1,182	0.00	0.00	0.47	0.95
South Central Indiana REMC	2,018	0.00	0.00	1.43	1.17
Southeastern Indiana REMC	2,448	0.00	0.00	1.05	1.75
Southern Indiana Power	1,908	0.00	0.00	0.74	1.47
Utilities District of Western Indiana REMC	1,321	0.00	0.00	0.66	0.94
Wayne-White Counties Electric Cooperative	0	0.00	0.00	0.00	0.00
Whitewater Valley REMC	8	0.00	0.00	0.01	0.00
WIN Energy REMC	1	0.00	0.00	0.00	0.00
<b>Total</b>	<b>17,264</b>	<b>0.00</b>	<b>0.00</b>	<b>7.80</b>	<b>12.19</b>

## RESIDENTIAL HVAC PROGRAM: 2009-2020

Cooperative	Total Measures Installed	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	1,746	2,576	39,871	1.59	0.63
Clark County REMC	4,671	5,904	77,186	3.60	2.44
Daviess-Martin County REMC	1,039	1,650	24,798	1.76	0.38
Decatur County REMC	684	1,882	31,488	2.34	0.30
Dubois REC	2,168	3,050	44,688	3.89	0.81
Harrison REMC	4,308	6,771	87,374	3.79	2.44
Henry County REMC	671	1,360	20,991	1.56	0.29
Jackson County REMC	2,975	6,281	94,565	3.58	1.26
Johnson County REMC	1,755	2,826	38,742	1.84	0.65
Orange County REMC	1,063	1,722	25,599	0.79	0.33
RushShelby Energy REMC	1,002	1,761	28,415	2.03	0.35
South Central Indiana REMC	4,841	7,616	126,893	5.48	1.20
Southeastern Indiana REMC	3,269	5,237	83,789	5.67	0.92
Southern Indiana Power	1,419	3,021	35,919	2.36	0.75
Utilities District of Western Indiana REMC	2,177	3,819	60,495	3.29	0.76
Wayne-White Counties Electric Cooperative	1,202	1,330	18,992	2.39	0.43
Whitewater Valley REMC	936	1,440	23,095	2.30	0.30
WIN Energy REMC	2,081	3,067	50,170	2.62	0.53
<b>Total</b>	<b>38,007</b>	<b>61,313</b>	<b>913,070</b>	<b>50.89</b>	<b>14.75</b>

## APPLIANCE RECYCLING PROGRAM: 2009-2020

Cooperative	Total Units Collected	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	351	370	2,474	0.20	0.25
Clark County REMC	1,310	1,285	10,621	0.27	0.32
Daviess-Martin County REMC	288	309	1,883	0.21	0.24
Decatur County REMC	284	303	2,064	0.20	0.24
Dubois REC	1,303	1,295	9,620	0.27	0.32
Harrison REMC	1,205	1,443	10,734	0.27	0.32
Henry County REMC	542	503	4,282	0.22	0.26
Jackson County REMC	1,004	1,067	7,841	0.26	0.30
Johnson County REMC	174	180	899	0.20	0.23
Orange County REMC	24	44	341	0.19	0.22
RushShelby Energy REMC	649	624	4,463	0.23	0.27
South Central Indiana REMC	1,097	1,020	8,173	0.25	0.30
Southeastern Indiana REMC	1,689	1,582	13,989	0.28	0.34
Southern Indiana Power	579	465	4,222	0.21	0.25
Utilities District of Western Indiana REMC	640	639	4,996	0.23	0.26
Wayne-White Counties Electric Cooperative	247	254	1,271	0.20	0.24
Whitewater Valley REMC	455	469	3,517	0.22	0.25
WIN Energy REMC	296	315	2,106	0.20	0.23
<b>Total</b>	<b>12,137</b>	<b>12,166</b>	<b>93,495</b>	<b>4.11</b>	<b>4.85</b>

TOUCHSTONE ENERGY® HOMES PROGRAM<sup>SM</sup>: 2009-2020

Cooperative	Homes Registered	Cumulative MWh Savings	Estimated Lifetime MWh Savings	Cumulative Winter Peak MW Savings	Cumulative Summer Peak MW Savings
Bartholomew County REMC	6	28	568	0.00	0.01
Clark County REMC	52	251	5,606	0.05	0.05
Daviess-Martin County REMC	6	34	738	0.01	0.01
Decatur County REMC	24	112	2,786	0.02	0.02
Dubois REC	96	466	9,935	0.08	0.10
Harrison REMC	161	825	19,510	0.18	0.16
Henry County REMC	4	19	379	0.00	0.00
Jackson County REMC	72	360	8,359	0.07	0.07
Johnson County REMC	2	16	360	0.00	0.00
Orange County REMC	2	9	189	0.00	0.00
RushShelby Energy REMC	48	234	5,748	0.05	0.05
South Central Indiana REMC	32	166	3,708	0.03	0.03
Southeastern Indiana REMC	15	43	1,420	0.01	0.01
Southern Indiana Power	35	163	3,658	0.03	0.04
Utilities District of Western Indiana REMC	19	88	2,318	0.02	0.02
Wayne-White Counties Electric Cooperative	-	-	0	0.00	0.00
Whitewater Valley REMC	1	5	95	0.00	0.00
WIN Energy REMC	1	5	95	0.00	0.00
<b>Total</b>	<b>576</b>	<b>2,824</b>	<b>65,472</b>	<b>0.55</b>	<b>0.57</b>

Program was retired in 2017 and remaining registered homes completed in 2018.

## Basic Program Assumptions

Measure Name	Annual kWh Savings	Winter kW Demand Savings	Summer kW Demand Savings	Installation Rate	Effective Useful Life (Years)
<b>RESIDENTIAL LIGHTING PROGRAM</b>					
LED Lighting (Standard)	26.5	0.029	0.029	70%	13
LED Lighting (Specialty)	34.1	0.037	0.037	70%	13
LED Security Lights	525.6	0.120	0.120	100%	18
<b>APPLIANCE RECYCLING PROGRAM</b>					
Refrigerator Recycling	1,002.0	0.140	0.140	100%	8
Freezer Recycling	932.5	0.134	0.134	100%	8
<b>RESIDENTIAL HVAC PROGRAM</b>					
Heat Pump Water Heaters	1,702.5	0.672	0.672	100%	13
Heat Pump (14 SEER) [Manufactured Home = MH]	436.0	0.170	0.160	100%	18
Heat Pump (15 SEER) [MH]	533.0	0.070	-0.020	100%	18
Heat Pump (16 SEER)	1,103.0	0.350	0.100	100%	18
Heat Pump (17 SEER)	1,281.0	0.820	0.170	100%	18
Heat Pump (18 SEER)	1,286.0	0.830	0.310	100%	18
Heat Pump (14 SEER) Dual Fuel [MH]	-2,769.0	0.000	0.160	100%	18
Heat Pump (15 SEER) Dual Fuel [MH]	-4,150.0	0.000	0.260	100%	18
Heat Pump (16 SEER) Dual Fuel	-6,263.0	0.000	0.300	100%	18
Heat Pump (17 SEER) Dual Fuel	-7,163.0	0.000	0.360	100%	18
Heat Pump (18 SEER) Dual Fuel	-6,768.0	0.000	0.380	100%	18
Heat Pump (14 SEER) Electric Resistance Replacement [MH]	4,765.0	3.700	0.160	100%	18
Heat Pump (15 SEER) Electric Resistance Replacement [MH]	23,692.0	4.120	0.200	100%	18
Heat Pump (16 SEER) Electric Resistance Replacement	23,964.0	4.400	0.320	100%	18
Heat Pump (17 SEER) Electric Resistance Replacement	23,551.0	4.870	0.390	100%	18
Heat Pump (18 SEER) Electric Resistance Replacement	23,839.0	4.880	0.530	100%	18
Geothermal Heat Pumps	4,480.0	3.240	0.680	100%	18
Mini Split Heat Pump (16 SEER)	825.3	3.110	0.830	100%	18
Mini Split Heat Pump (17 SEER)	1,408.0	3.240	0.880	100%	18
Mini Split Heat Pump (18 SEER)	2,015.6	3.390	0.920	100%	18
Mini Split Heat Pump (19 SEER)	2,397.7	3.470	0.950	100%	18
Mini Split Heat Pump (20 SEER)	2,749.2	3.550	0.970	100%	18
<b>ENERGY EFFICIENCY KIT</b>					
Energy Efficiency Kit A	118.5	0.028	0.012	50%	14
Energy Efficiency Kit B	164.0	0.019	0.018	50%	8

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Measure Name	Annual kWh Savings	Winter kW Demand Savings	Summer kW Demand Savings	Installation Rate	Effective Useful Life (Years)
<b>C&amp;I ENERGY EFFICIENCY PROGRAM</b>					
All commercial & industrial savings are calculated for each individual rebate claim based on the estimated existing and replacement wattages and time used.					
Agricultural Lighting	179.9	0.000	0.019	100%	2
Occupancy Sensors	393.1	0.122	0.087	100%	8
NEMA Premium Eff. Motor >10 HP	35.0	0.010	0.010	100%	15
NEMA Premium Eff. Motor < 10 HP	75.0	0.020	0.020	100%	15
VSD on Motors	679.7	0.000	0.105	100%	15
Programmable Thermostat	61.0	0.000	0.000	100%	9
Heat Pump (11.3 EER, COP 3.4)	54.1	0.020	0.015	100%	15
Air Conditioner (12 EER)	67.3	0.094	0.073	100%	15
<b>DEMAND RESPONSE</b>					
<80 gallon water heater control	0.0	0.800	0.450	100%	13
>80 gallon water heater control	0.0	0.800	0.450	100%	13
AC control	0.0	0.000	0.990	100%	13
ASHP control	0.0	0.000	0.880	100%	13
Geothermal HP control	0.0	0.000	0.930	100%	13
<b>RETIRED MEASURES</b>					
Measures that were incentivized in previous program years continue to contribute to overall program savings for the duration of the measure life., on a per unit basis. The measures below are for historical reference when reviewing cumulative savings totals.					
Touchstone Energy Homes	5,397.0	4.520	0.740	100%	25
Weatherized Homes (HE & ARRA) <sup>1</sup>	4,274.0	0.720	1.060	100%	13
Deferred Homes	795.0	0.720	0.720	100%	13
LED Holiday Lights 2009-13	17.1	0.048	0.048	90%	20
80 Gal Water Heater	115.0	0.050	0.050	100%	13
50 Gal Water Heater	162.0	0.060	0.060	100%	13
Compact Fluorescent Lighting (CFL)	28.6	0.031	0.031	70%	5
Attic Insulation	1,049.0	0.152	0.727	100%	20
Duct Sealing	718.0	0.491	0.357	100%	20
Central AC (14 SEER)	142.0	0.220	0.000	100%	18
Central AC (15 SEER)	147.0	0.200	0.000	100%	18
Central AC (16 SEER)	221.0	0.320	0.000	100%	18
Central AC (17 SEER)	257.0	0.390	0.000	100%	18
Central AC (18 SEER)	325.0	0.530	0.000	100%	18

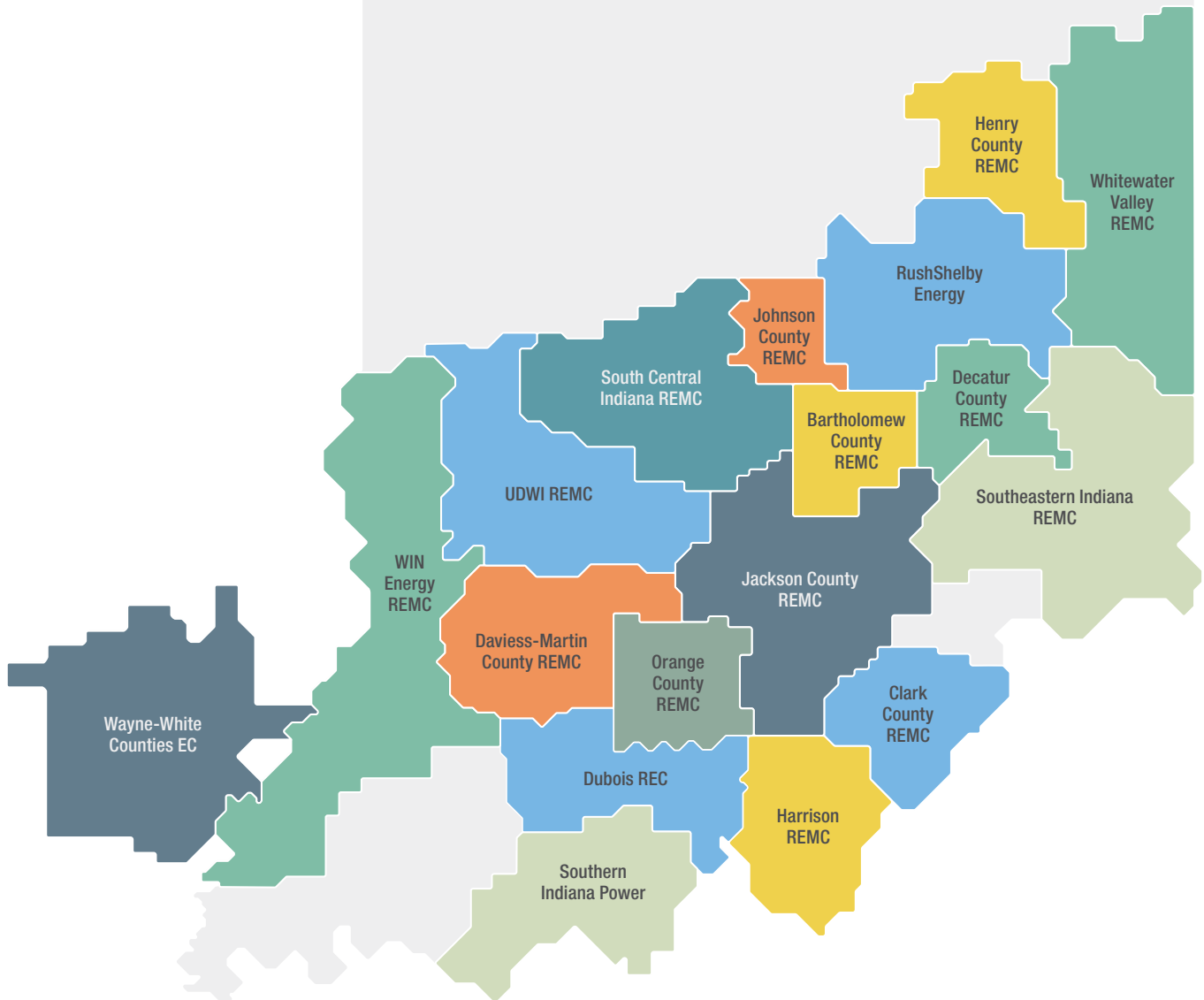
Basic program assumptions were updated in 2016.

<sup>1</sup>Hoosier Energy and American Recovery and Reinvestment Act

## The Hoosier Energy Power Network


Hoosier Energy is a generation and transmission cooperative (G&T) with headquarters in Bloomington, Indiana. The G&T provides electric power and services to 18 electric distribution cooperatives in central and southern Indiana and southeastern Illinois. Collectively serving more than 710,000 people.

For more information, visit  
[www.hoosierenergy.com](http://www.hoosierenergy.com).





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2501 South Cooperative Way  
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