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2018 DEMAND SIDE MANAGEMENT (DSM) OVERVIEW

Demand Side Management (DSM) refers to both energy efficiency and demand response programs. Hoosier Energy utilizes the savings from DSM program measures as a resource equivalent to more traditional power supply options such as baseload coal units or natural gas fired peaking plants. These programs are designed to reduce the need for additional power supply resources by providing financial incentives to encourage more efficient energy use by consumer-members and to help shift the time of use to "off-peak" periods. These incentives help offset the cost of purchasing and installing high-efficiency equipment, though the success of DSM programs relies on the investments by consumer-members who voluntarily pursue energy savings and efficiency. Hoosier Energy, a generation and transmission cooperative (G&T), can benefit from a reduced need to buy or build new generating capacity, member systems can benefit from wholesale power cost savings, and consumers can benefit through lower electric bills.

The past year was characterized by continued positive program results including successful integration of online lighting stores with the Energy Efficiency Collaborative Platform that members and Hoosier Energy use to manage program incentives. The DSM portfolio includes Residential Lighting, LED Security Lighting; Commercial and Industrial Efficiency; Residential HVAC; Energy Management Switch; and Appliance Recycling programs. Programs helped member systems achieve over 19 million kWh of energy savings in 2018.

A summary of program savings in 2018 is presented below:

2018 HIGHLIGHTS

OVER
50,000 MEASURES &
\$2.2 MILLION
IN REBATES

19,221 MWH IN ANNUAL SAVINGS

2.15 MW
IN SUMMER PEAK
DEMAND SAVINGS

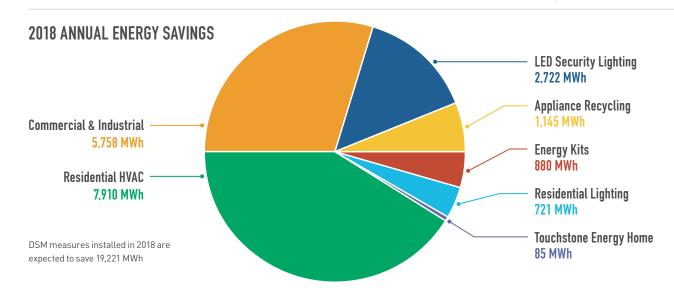
3.68 MW
IN WINTER PEAK
DEMAND SAVINGS

2.11 TO 1 BENEFIT TO COST RATIO

2018 DSM PROGRAM SUMMARY

| Program | Total Units | Annual MWh Savings | Summer Demand Savings | Winter Demand Savings |
|-----------------------------|-------------|-----------------------|--------------------------|--------------------------|
| Residential Lighting | 34,255 | 721 | 0.07 | 0.20 |
| Commercial & Industrial | 86 | 5,758 | 1.22 | 1.21 |
| Energy Management Switch | 285 | 0 | 0.20 | 0.12 |
| Energy Kits (Other Savings) | 10,650 | 880 | 0.07 | 0.21 |
| Residential HVAC | 1,524 | 7,910 | 0.41 | 1.63 |
| Touchstone Energy Home* | 16 | 85 | 0.00 | 0.03 |
| Appliance Recycling | 1,156 | 1,145 | 0.12 | 0.10 |
| LED Security Lighting | 5,177 | 2,722 | 0.06 | 0.18 |
| TOTAL | 53,149 | 19,221 | 2.15 | 3.68 |

^{*}Homes registered prior to program close, completed in 2018



A DECADE OF DSM



marked the tenth anniversary of the voluntary DSM program provided by member systems and Hoosier Energy. As we celebrate this milestone, it is appropriate to reflect on progress and savings achieved over the past decade and consider what may lie ahead for the next generation of efficiency programs.

Members and the G&T formally implemented Demand Side Management in 2009 following more than a year of planning with distribution cooperative CEO's/Managers and in anticipation of significant revisions in wholesale tariffs and rates. Tariff changes approved in 2009 that took effect in early 2010 provided the foundation for DSM programs to help consumer-members and member systems better manage energy use and reduce long-term costs. DSM programs provided financial resources and technical support to help the G&T, distribution systems and consumers reduce demand and energy requirements and capture associated cost savings.

Program offerings over the decade included efficiency incentives for appliance recycling, commercial and industrial (C&I) upgrades, residential HVAC improvements, LED security lighting, residential lighting and energy kits. DSM program elements and funding have changed over the past ten years in response to changing consumer preferences, financial considerations, new technologies and changing priorities. Several programs have been retired such as the Touchstone Energy Home program, attic insulation and duct sealing programs, and a comprehensive residential weatherization program that initially included significant Federal financial support under the American Recovery and Reinvestment Act of 2009. Other potential program offerings have been evaluated and tested through pilot projects and were not adopted. The program portfolio in place today has evolved over time and includes measures that offer the best performance in energy and cost savings and consumer satisfaction.

Technology changes over the past ten years have been significant. Since 2009, rebates have shifted from traditional tank water heaters to heat pump water heaters, from air conditioning units and electric resistance furnaces to heat pump systems, and from incandescent bulbs to CFL's and then LED's for residential lighting. Technology changes also included implementation of the Energy Efficiency Collaborative Platform (EECP) over the past three years. EECP provides a single source for rebate reporting for member systems and is a much more efficient means to collect and store data for analysis and reporting. The flexibility of this analytical online software allows member cooperatives to independently configure and track participation, costs and savings.

Member system efforts to promote DSM programs have resulted in significant successes over the past decade including installation of more than two million efficiency measures, completion of more than one thousand C&I projects and provision of approximately \$40 million in efficiency rebates to consumer-members. Program results by member system are summarized below.

PROGRESS TOWARD POLICY GOALS

The Hoosier Energy Board of Directors adopted a policy in 2008 creating the DSM program that included an aggressive goal of reducing forecasted 2018 summer peak demand and energy requirements by 5 percent. Based upon model results, the cumulative impacts of energy efficiency measures implemented since inception of the DSM program are estimated to have reduced 2018 summer peak demand by about 4.3% and energy requirements by about 3 percent compared to levels that might have been experienced in the absence of DSM programs. Member load has continued to grow over the decade but at a slower rate than would have occurred without DSM programs.

The DSM program portfolio has empowered members to better manage their energy use and costs and, over the last ten years, programs have grown and adapted to keep up with industry best practices. Improving efficiency and reducing demand in homes and businesses has been a low cost option to better serve consumer-members.

PROGRAM RESULTS BY MEMBER SYSTEM (2009-2018)

| Cooperative | Residential Lighting | C&I Energy Efficiency | Energy Management Switch | Residential HVAC | Touchstone Energy Home | Appliance Recycling | LED Security Lighting | Total by Co-op |
|--|-------------------------|--------------------------|--------------------------------|---------------------|---------------------------|------------------------|--------------------------|-------------------|
| Bartholomew County REMC | 120,141 | 73 | 195 | 1,586 | 6 | 308 | 507 | 122,816 |
| Clark County REMC | 344,074 | 66 | 0 | 4,233 | 52 | 1,119 | 783 | 350,327 |
| Daviess-Martin County REMC | 111,530 | 42 | 1,191 | 960 | 6 | 235 | 40 | 114,004 |
| Decatur County REMC | 43,010 | 44 | 200 | 573 | 24 | 261 | 885 | 44,997 |
| Dubois REC, Inc. | 137,593 | 95 | 610 | 2,051 | 96 | 1,130 | 1,021 | 142,596 |
| Harrison REMC | 137,975 | 58 | 1,885 | 3,900 | 161 | 993 | 2,205 | 147,177 |
| Henry County REMC | 66,929 | 27 | 958 | 608 | 4 | 474 | 2,040 | 71,040 |
| Jackson County REMC | 116,050 | 112 | 1,162 | 2,544 | 72 | 833 | 2,435 | 123,208 |
| Johnson County REMC | 98,348 | 81 | 0 | 1,649 | 2 | 174 | 2,232 | 102,486 |
| Orange County REMC | 73,353 | 19 | 1,864 | 978 | 2 | 15 | 626 | 76,857 |
| RushShelby Energy | 65,888 | 37 | 1,176 | 884 | 48 | 581 | 739 | 69,353 |
| South Central Indiana REMC | 71,815 | 83 | 2,018 | 4,422 | 32 | 969 | 1,048 | 80,387 |
| Southeastern Indiana REMC | 114,098 | 42 | 2,217 | 2,950 | 15 | 1,520 | 3,068 | 123,910 |
| Southern Indiana Power | 119,809 | 68 | 1,871 | 1,324 | 35 | 494 | 1,464 | 125,065 |
| Utilities District of Western Indiana REMC | 118,778 | 68 | 1,309 | 2,033 | 19 | 567 | 1,247 | 124,021 |
| Wayne-White Counties Electric Cooperative | 74,744 | 23 | 0 | 1,058 | 0 | 247 | 1,834 | 77,906 |
| Whitewater Valley REMC | 79,618 | 32 | 8 | 860 | 1 | 403 | 1,741 | 82,669 |
| WIN Energy REMC | 33,245 | 84 | 1 | 1,958 | 1 | 268 | 2,053 | 37,604 |
| Total | 1,926,998 | 1,054 | 16,665 | 34,571 | 576 | 10,591 | 25,968 | 2,016,423 |

ENERGY EFFICIENT LIGHTING PROGRAMS

2018 RESIDENTIAL LIGHTING

34,255 NUMBER OF UNITS

721 MWh ENERGY SAVINGS

0.20 MW WINTER DEMAND SAVINGS

2018 ENERGY EFFICIENCY KITS

10,650 NUMBER OF UNITS

880 MWh ENERGY SAVINGS

0.21 MWWINTER DEMAND SAVINGS

2018 LED SECURITY LIGHTING

5,177 NUMBER OF UNITS

2,722 MWh ENERGY SAVINGS

0.18 MW WINTER DEMAND SAVINGS The Residential Lighting program encourages consumers to replace existing lighting with high efficiency LEDs. Hoosier Energy provides each member cooperative an annual allotment of 500 bulbs to distribute at no cost to consumers. Cooperatives use various channels including food drives, annual meeting gifts, and community events such as county fairs and festivals to distribute bulbs.

The residential online lighting store was redesigned for 2018 to include educational resources to help consumers better understand their lighting needs and an expanded selection of LED bulbs was added to better meet homeowner preferences. Cooperatives distributed over 6,500 LEDs in 2018 and members purchased an additional 28,000 bulbs through the lighting store.

Hoosier Energy also provides each member cooperative with an annual allotment of up to 1,000 energy efficiency kits to distribute at no cost to consumers. The kits contain LED bulbs, foam outlet and wall plate gaskets, an LED nightlight and other self-install energy

saving items. Printed materials are included in the kit to help members log in and navigate the online lighting store to order additional items.

Outdoor security lights offer enhanced lighting to improve visibility and safety at consumer homes and properties as well as on public streets and neighborhoods. Member cooperatives have thousands of security lights in their service areas. Traditional mercury vapor and high pressure sodium lighting consume high amounts of energy and have an expected life of about six to ten years. By installing high-efficiency, long-lasting LED security lighting with dusk-to-dawn sensors, cooperatives can improve lighting output, reduce maintenance costs, and reduce energy use by as much as 70% per fixture. The LED security lighting program offers member co-ops an incentive of \$50 per light to offset replacement costs. Hoosier Energy paid members nearly \$260,000 in 2018 for security light incentives.



COMMERCIAL AND INDUSTRIAL PROGRAM

The Commercial and Industrial (C&I) Incentive program offers rebates for a variety of DSM and efficiency measures including lighting, HVAC, air compressors, motors, variable speed drives, and a "custom" application for more unique projects. New and expanding businesses along with some extreme weather in 2018 highlighted the value of the program for C&I consumers. Consumers that pursued efficiency improvements through self-investment and utilization of incentives from their electric co-op were positioned to reduce energy consumption and manage power costs during periods of higher demand.

The program is designed to meet the needs of a broad variety of large consumers. Member systems and Hoosier Energy provided approximately \$370,000 in incentives for eighty six (86) projects in 2018 including nearly \$100,000 to support efficiency gains at schools, churches and agriculture-related facilities. An additional \$2 million was invested by program beneficiaries to leverage co-op efficiency incentives. Power reductions

associated with these investments and incentives are expected to include energy savings of about 5,800 MWh and a 1.2 MW reduction in winter peak demand. Other improvements completed during the year included addition of a new online application process and hiring a C&I Specialist to oversee the program.

Lighting projects remained the DSM measure of most interest to consumers and accounted for nearly 90% of 2018 applications. A planned enhancement for 2019 includes promotion and incentives for C&I facility managers to participate in the nationally recognized Building Operator Certification (BOC) Course. The BOC Course will be offered at Hoosier Energy's headquarters and is intended to better train C&I employees in how to identify and implement low-cost and no-cost efficiency practices. Participants can apply for full tuition reimbursement following completion of the course. The BOC Course will hopefully enable C&I consumers to better manage their energy usage and cost and further strengthen member relationships with their key accounts.

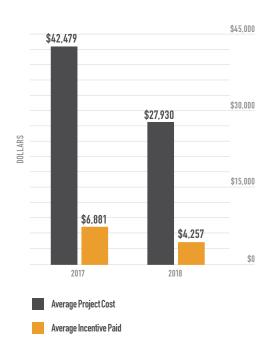
2018 COMMERCIAL AND INDUSTRIAL PROGRAM

86 NUMBER OF APPLICATIONS

5,758 MWh ENERGY SAVINGS

1.22 MW SUMMER DEMAND SAVINGS

PROJECT COST VS INCENTIVE PAID





ENERGY MANAGEMENT SAVINGS SWITCH PROGRAM

2018 ENERGY MANAGEMENT SAVINGS SWITCH PROGRAM

210 Number of Units

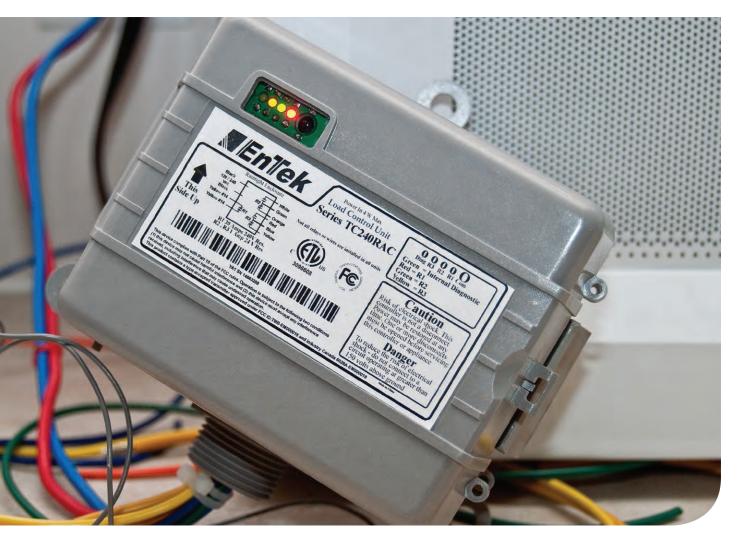
285
NUMBER OF DEVICES
CONTROLLED

0.20 MW SUMMER DEMAND SAVINGS Six cooperatives participated in the residential energy management savings switch program in 2018, installing 210 switches to control 138 HVAC units and 147 water heaters. Participating consumers allow the cooperative to control these units during periods of high system wide demand in response to load control signals from Hoosier Energy. Control sessions are conducted during peak hours in three summer months (June through August) and three winter months

(December through February). Six load control sessions were conducted for during winter months in 2018 and eight sessions during summer months. Each air conditioning unit switch is estimated to provide nearly 1kW in summer demand reduction. Each water heater switch is estimated to reduce demand by 0.8 kW in winter months and 0.5 kW in summer months.

2018 PEAK CONTROL EVENTS





RESIDENTIAL HVAC REBATES



Heating and cooling are the largest energy expenses in most homes accounting for up to 60% of annual energy costs. The Residential HVAC program encourages selection of units that increase the efficiency of electric heating, cooling and water heating in the home with financial incentives paid by member cooperatives to homeowners after equipment installation. In 2018, nearly 300 heat pump water heaters and over 1,200 qualifying geothermal, air source and dual fuel heat pump units were installed by co-op consumers. Qualifying heat pumps for stick-built and modular homes are required to have a minimum 16 SEER rating. High efficiency heat

pumps replacing electric resistance heat accounted for approximately 20 percent of rebated installations this year. Heat pump efficiency results from units absorbing and transferring heat rather than generating it. The process allows the unit to provide comfort conditioning without the high energy consumption of electric resistance units. Reduced energy use makes upgrading to a heat pump an important investment for homeowners interested in saving on their utility bill. Member cooperatives paid nearly \$1.5 million in incentives in 2018 to help consumers utilize energy efficient HVAC equipment in their homes.

2018 RESIDENTIAL HVAC REBATES

1,524 NUMBER OF UNITS

7,910 MWh ENERGY SAVINGS

1.63 MW WINTER DEMAND SAVINGS

APPLIANCE RECYCLING PROGRAM



2018 APPLIANCE RECYCLING REBATES

1,156 NUMBER OF UNITS

1,145 MWh ENERGY SAVINGS

0.12 MWSUMMER PEAK
REDUCTION

Retiring and replacing old, inefficient refrigerators and freezers can result in substantial reductions in energy consumption and big savings for consumers. Depending on models, retiring a twenty year old refrigerator can save about 1,000 kWh per year which translates to an \$80 to \$100 annual saving for a household. We continued to work with Habitat for Humanity chapters in 2018 providing collection services for co-op consumers.

Results in 2018 were consistent with previous years. Consumers recycled over 200 freezers and nearly 1,000 refrigerators that are expected to produce annual energy savings of over 1,100,000 kWh. Consumers receive a \$50 incentive for each appliance recycled. Member cooperatives paid out nearly \$60,000 in incentives in 2018 and consumers opted to donate nearly \$3,000 in rebates to the servicing ReStore. Participating ReStores were able to reinvest over \$125,000 into local communities through the Habitat for Humanity low-income home building program.

UNITS RECYCLED BY RESTORE AFFILIATE

| 629 | Habitat for Humanity Madison ReStore |
|-----|--|
| 198 | Raintree Habitat for Humanity ReStore |
| 164 | Habitat for Humanity of Dubois County |
| 47 | Monroe County Habitat for Humanity ReStore |
| 8 | Wabash Valley Habitat for Humanity |
| | Total Units |

APPENDICES

12-15

APPENDIX A: 2018 DSM

Program Savings

16-20

APPENDIX B:

Cumulative DSM Program Savings

21-22

APPENDIX C:

Basic Program
Assumptions

2018 RESIDENTIAL LIGHTING PROGRAM

| COOPERATIVE | Total Units | Annual MWh Savings | Summer Demand Savings | Winter Demand Savings |
|--|-------------|-----------------------|--------------------------|--------------------------|
| Bartholomew County REMC | 1,296 | 27 | 0.00 | 0.01 |
| Clark County REMC | 5,368 | 113 | 0.01 | 0.03 |
| Daviess-Martin County REMC | 500 | 11 | 0.00 | 0.00 |
| Decatur County REMC | 1,497 | 31 | 0.00 | 0.01 |
| Dubois REC | 5,105 | 107 | 0.01 | 0.03 |
| Harrison REMC | 3,811 | 80 | 0.01 | 0.02 |
| Henry County REMC | 450 | 9 | 0.00 | 0.00 |
| Jackson County REMC | 2,099 | 45 | 0.01 | 0.01 |
| Johnson County REMC | 1,156 | 24 | 0.00 | 0.01 |
| Orange County REMC | 982 | 21 | 0.00 | 0.01 |
| RushShelby Energy REMC | 1,414 | 30 | 0.00 | 0.01 |
| South Central Indiana REMC | 1,889 | 40 | 0.00 | 0.01 |
| Southeastern Indiana REMC | 2,338 | 50 | 0.01 | 0.01 |
| Southern Indiana Power | 1,783 | 37 | 0.01 | 0.01 |
| Utilities District of Western Indiana REMC | 945 | 20 | 0.00 | 0.01 |
| Wayne-White Counties Electric Cooperative | 2,607 | 55 | 0.01 | 0.02 |
| Whitewater Valley REMC | 403 | 8 | 0.00 | 0.00 |
| WIN Energy REMC | 612 | 13 | 0.00 | 0.00 |
| TOTAL | 34,255 | 721 | 0.07 | 0.20 |

2018 C&I ENERGY EFFICIENCY PROGRAM

| COOPERATIVE | Total Applications Paid | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|-------------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 11 | 2,213 | 0.29 | 0.29 |
| Clark County REMC | 6 | 427 | 0.12 | 0.12 |
| Daviess-Martin County REMC | 6 | 375 | 0.11 | 0.11 |
| Decatur County REMC | 7 | 73 | 0.03 | 0.03 |
| Dubois REC | 17 | 406 | 0.13 | 0.13 |
| Harrison REMC | 6 | 271 | 0.12 | 0.12 |
| Henry County REMC | 1 | 138 | 0.02 | 0.02 |
| Jackson County REMC | 4 | 80 | 0.02 | 0.02 |
| Johnson County REMC | 3 | 160 | 0.03 | 0.03 |
| Orange County REMC | 1 | 9 | 0.01 | 0.01 |
| RushShelby Energy REMC | 3 | 166 | 0.03 | 0.03 |
| South Central Indiana REMC | 2 | 30 | 0.02 | 0.02 |
| Southeastern Indiana REMC | 1 | 2 | 0.00 | 0.00 |
| Southern Indiana Power | 6 | 973 | 0.18 | 0.18 |
| Utilities District of Western Indiana REMC | 4 | 97 | 0.02 | 0.02 |
| Wayne–White Counties Electric Cooperative | 0 | 0 | 0.00 | 0.00 |
| Whitewater Valley REMC | 1 | 33 | 0.00 | 0.00 |
| WIN Energy REMC | 7 | 305 | 0.09 | 0.08 |
| TOTAL | 86 | 5,758 | 1.22 | 1.21 |

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

2018 ENERGY MANAGEMENT SAVINGS SWITCH PROGRAM

| COOPERATIVE | Total Devices Controlled | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|-----------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 0 | 0 | 0.00 | 0.00 |
| Clark County REMC | 0 | 0 | 0.00 | 0.00 |
| Daviess-Martin County REMC | 0 | 0 | 0.00 | 0.00 |
| Decatur County REMC | 0 | 0 | 0.00 | 0.00 |
| Dubois REC | 70 | 0 | 0.06 | 0.02 |
| Harrison REMC | 0 | 0 | 0.00 | 0.00 |
| Henry County REMC | 0 | 0 | 0.00 | 0.03 |
| Jackson County REMC | 72 | 0 | 0.05 | 0.00 |
| Johnson County REMC | 0 | 0 | 0.00 | 0.02 |
| Orange County REMC | 42 | 0 | 0.02 | 0.00 |
| RushShelby Energy REMC | 1 | 0 | 0.00 | 0.00 |
| South Central Indiana REMC | 0 | 0 | 0.00 | 0.04 |
| Southeastern Indiana REMC | 66 | 0 | 0.04 | 0.01 |
| Southern Indiana Power | 34 | 0 | 0.03 | 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 | 0 | 0 | 0.00 | 0.00 |
| WIN Energy REMC | 0 | 0 | 0.00 | 0.00 |
| TOTAL | 285 | 0 | 0.20 | 0.12 |

2018 ENERGY EFFICIENCY KITS

| COOPERATIVE | Total Measures Installed | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|-----------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 500 | 41 | 0.00 | 0.01 |
| Clark County REMC | 1,000 | 83 | 0.01 | 0.02 |
| Daviess-Martin County REMC | 700 | 58 | 0.01 | 0.01 |
| Decatur County REMC | 0 | 0 | 0.00 | 0.00 |
| Dubois REC | 0 | 0 | 0.00 | 0.00 |
| Harrison REMC | 0 | 0 | 0.00 | 0.00 |
| Henry County REMC | 500 | 41 | 0.00 | 0.01 |
| Jackson County REMC | 1,500 | 124 | 0.01 | 0.03 |
| Johnson County REMC | 1,000 | 83 | 0.01 | 0.02 |
| Orange County REMC | 500 | 41 | 0.00 | 0.01 |
| RushShelby Energy REMC | 450 | 37 | 0.00 | 0.01 |
| South Central Indiana REMC | 1,000 | 83 | 0.01 | 0.02 |
| Southeastern Indiana REMC | 1,000 | 83 | 0.01 | 0.02 |
| Southern Indiana Power | 0 | 0 | 0.00 | 0.00 |
| Utilities District of Western Indiana REMC | 1,000 | 83 | 0.01 | 0.02 |
| Wayne-White Counties Electric Cooperative | 500 | 41 | 0.00 | 0.01 |
| Whitewater Valley REMC | 500 | 41 | 0.00 | 0.01 |
| WIN Energy REMC | 500 | 41 | 0.00 | 0.01 |
| TOTAL | 10,650 | 880 | 0.07 | 0.21 |

2018 RESIDENTIAL HVAC INCENTIVES PROGRAM

| Cooperative | Total Measures Installed | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|--------------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 46 | 368 | 0.01 | 0.04 |
| Clark County REMC | 175 | 566 | 0.04 | 0.11 |
| Daviess-Martin County REMC | 27 | 192 | 0.01 | 0.04 |
| Decatur County REMC | 34 | 227 | 0.02 | 0.08 |
| Dubois REC | 47 | 197 | 0.02 | 0.08 |
| Harrison REMC | 233 | 773 | 0.04 | 0.14 |
| Henry County REMC | 24 | 133 | 0.01 | 0.04 |
| Jackson County REMC | 184 | 841 | 0.04 | 0.13 |
| Johnson County REMC | 53 | 328 | 0.02 | 0.07 |
| Orange County REMC | 38 | 455 | 0.01 | 0.05 |
| RushShelby Energy REMC | 54 | 244 | 0.02 | 0.07 |
| South Central Indiana REMC | 188 | 1,487 | 0.05 | 0.26 |
| Southeastern Indiana REMC | 121 | 720 | 0.03 | 0.16 |
| Southern Indiana Power | 55 | 303 | 0.01 | 0.06 |
| Utilities District of Western Indiana REMC | 93 | 428 | 0.02 | 0.08 |
| Wayne-White Counties Electric Cooperative | 55 | 65 | 0.02 | 0.05 |
| Whitewater Valley REMC | 26 | 73 | 0.01 | 0.05 |
| WIN Energy REMC | 71 | 510 | 0.03 | 0.12 |
| TOTAL | 1,524 | 7,910 | 0.41 | 1.63 |

 $\hbox{\it Dual Fuel Heat Pump units have negative kWh savings. See Appendix C for program measure assumptions.}$

2018 TOUCHSTONE ENERGY® HOME™ PROGRAM

| Touchstone Energy Home | Total Measures Installed* | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|---------------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 0 | 0 | 0.00 | 0.00 |
| Clark County REMC | 1 | 5 | 0.00 | 0.00 |
| Daviess-Martin County REMC | 0 | 0 | 0.00 | 0.00 |
| Decatur County REMC | 1 | 5 | 0.00 | 0.00 |
| Dubois REC | 0 | 0 | 0.00 | 0.00 |
| Harrison REMC | 5 | 27 | 0.00 | 0.00 |
| Henry County REMC | 0 | 0 | 0.00 | 0.00 |
| Jackson County REMC | 3 | 16 | 0.00 | 0.00 |
| Johnson County REMC | 0 | 0 | 0.00 | 0.00 |
| Orange County REMC | 0 | 0 | 0.00 | 0.00 |
| RushShelby Energy REMC | 3 | 16 | 0.00 | 0.00 |
| South Central Indiana REMC | 0 | 0 | 0.00 | 0.00 |
| Southeastern Indiana REMC | 0 | 0 | 0.00 | 0.00 |
| Southern Indiana Power | 1 | 5 | 0.00 | 0.00 |
| Utilities District of Western Indiana REMC | 2 | 11 | 0.00 | 0.00 |
| Wayne-White Counties Electric Cooperative | 0 | 0 | 0.00 | 0.00 |
| Whitewater Valley REMC | 0 | 0 | 0.00 | 0.00 |
| WIN Energy REMC | 0 | 0 | 0.00 | 0.00 |
| TOTAL | 16 | 85 | 0.00 | 0.00 |

^{*}Homes registered prior to program close, completed in 2018 $\,$

2018 APPLIANCE RECYCLING PROGRAM

| Cooperative | Total Measures Installed | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|--------------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 29 | 29 | 0.00 | 0.00 |
| Clark County REMC | 137 | 136 | 0.01 | 0.01 |
| Daviess-Martin County REMC | 10 | 10 | 0.00 | 0.00 |
| Decatur County REMC | 25 | 25 | 0.00 | 0.00 |
| Dubois REC | 90 | 88 | 0.01 | 0.01 |
| Harrison REMC | 163 | 163 | 0.02 | 0.01 |
| Henry County REMC | 69 | 68 | 0.01 | 0.01 |
| Jackson County REMC | 116 | 115 | 0.01 | 0.01 |
| Johnson County REMC | 0 | 0 | 0.00 | 0.00 |
| Orange County REMC | 4 | 4 | 0.00 | 0.00 |
| RushShelby Energy REMC | 45 | 45 | 0.00 | 0.00 |
| South Central Indiana REMC | 75 | 74 | 0.01 | 0.01 |
| Southeastern Indiana REMC | 184 | 181 | 0.02 | 0.02 |
| Southern Indiana Power | 60 | 60 | 0.01 | 0.01 |
| Utilities District of Western Indiana REMC | 72 | 71 | 0.01 | 0.01 |
| Wayne-White Counties Electric Cooperative | 0 | 0 | 0.00 | 0.00 |
| Whitewater Valley REMC | 59 | 58 | 0.01 | 0.00 |
| WIN Energy REMC | 18 | 18 | 0.00 | 0.00 |
| TOTAL | 1,156 | 1,145 | 0.12 | 0.10 |

2018 LED SECURITY LIGHTING PROGRAM

| Cooperative | Total Measures Installed | Annual MWh Savings | Summer Demand MW | Winter Demand MW |
|--|--------------------------------|-----------------------|---------------------|---------------------|
| Bartholomew County REMC | 142 | 75 | 0.00 | 0.00 |
| Clark County REMC | 499 | 262 | 0.01 | 0.01 |
| Daviess-Martin County REMC | 40 | 21 | 0.00 | 0.00 |
| Decatur County REMC | 122 | 64 | 0.00 | 0.00 |
| Dubois REC | 240 | 126 | 0.00 | 0.01 |
| Harrison REMC | 194 | 102 | 0.00 | 0.01 |
| Henry County REMC | 499 | 262 | 0.01 | 0.02 |
| Jackson County REMC | 496 | 261 | 0.01 | 0.02 |
| Johnson County REMC | 498 | 262 | 0.01 | 0.02 |
| Orange County REMC | 137 | 72 | 0.00 | 0.00 |
| RushShelby Energy REMC | 159 | 84 | 0.00 | 0.01 |
| South Central Indiana REMC | 213 | 112 | 0.00 | 0.01 |
| Southeastern Indiana REMC | 437 | 230 | 0.01 | 0.01 |
| Southern Indiana Power | 232 | 122 | 0.00 | 0.01 |
| Utilities District of Western Indiana REMC | 168 | 88 | 0.00 | 0.01 |
| Wayne-White Counties Electric Cooperative | 318 | 167 | 0.00 | 0.01 |
| Whitewater Valley REMC | 306 | 161 | 0.00 | 0.01 |
| WIN Energy REMC | 477 | 251 | 0.01 | 0.02 |
| TOTAL | 5,177 | 2,722 | 0.06 | 0.18 |

ANALYSIS OF MEASURES INSTALLED: 2009-2018

The average lifetime cost of energy conserved to date through DSM measures is just over \$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 0&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 2.11 to 1.**

This ratio suggests that \$2.11 in long-term benefits were obtained for each \$1 invested in efficiency programs.

ESTIMATED BENEFITS AND COSTS FOR ALL MEASURES INSTALLED: 2009–2018¹

| Program | Total Units | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|---|-------------|---------------------------|-----------------------------------|--------------------------------------|--------------------------------------|
| Residential Lighting | 1,871,790 | 56,623 | 583,972 | 5.70 | 13.93 |
| Commercial & Industrial Energy Efficiency | 1,054 | 126,832 | 1,791,902 | 18.46 | 19.28 |
| Weatherization ² | 4,061 | 19,285 | 479,329 | 4.81 | 3.28 |
| Energy Management Switch | 16,665 | - | - | 12.09 | 7.71 |
| Other Savings ³ | 55,208 | 16,383 | 161,230 | 2.01 | 4.02 |
| Residential HVAC | 34,571 | 53,342 | 769,597 | 13.06 | 44.46 |
| Touchstone Energy Home | 576 | 2,824 | 65,472 | 0.57 | 0.55 |
| Appliance Recycling | 10,591 | 10,584 | 80,840 | 4.62 | 3.94 |
| LED Security Lighting | 25,968 | 16,969 | 306,553 | 0.25 | 0.94 |
| Total | 2,020,484 | 302,842 | 4,238,895 | 61.58 | 98.12 |

| Program | Hoosier Energy Costs | Participant Costs | Lifetime Economic Benefits | Cost/kWh | Total Resource Cost (TRC) |
|---|-------------------------|-------------------|-------------------------------|----------|------------------------------|
| Residential Lighting | \$6,481,647 | \$1,921,543 | \$27,999,761 | 0.01 | 3.33 |
| Commercial & Industrial Energy Efficiency | \$5,056,644 | \$23,903,379 | \$90,931,013 | 0.02 | 3.14 |
| Weatherization ² | \$9,078,275 | \$0 | \$15,084,780 | 0.02 | 1.66 |
| Energy Management Switch | \$2,953,290 | \$0 | \$5,892,992 | 0.00 | 2.00 |
| Other Savings ³ | \$2,754,334 | \$315,183 | \$4,021,414 | 0.02 | 1.31 |
| Residential HVAC | \$10,409,959 | \$19,690,348 | \$29,492,552 | 0.04 | 0.98 |
| Touchstone Energy Home | \$599,356 | \$940,782 | \$1,972,585 | 0.02 | 1.28 |
| Appliance Recycling | \$1,128,162 | \$0 | \$2,334,602 | 0.01 | 2.07 |
| LED Security Lighting | \$2,139,653 | \$3,165,674 | \$13,033,320 | 0.02 | 2.46 |
| Total | \$40,601,319 | \$49,936,909 | \$190,763,021 | 0.02 | 2.11 |

^{&#}x27;Appendix B measures are shown at generation levels. A 9% transmission and distribution loss is factored into estimates.

^{*} 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

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

^aOther Savings include Deferred Weatherization program benefits and energy efficiency kits.

RESIDENTIAL LIGHTING PROGRAM

| Cooperative | Total Measures Installed | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|-----------------------------|---------------------------|-----------------------------------|---|---|
| Bartholomew County REMC | 117,720 | 3,888 | 35,377 | 0.40 | 0.91 |
| Clark County REMC | 340,088 | 10,071 | 103,966 | 1.02 | 2.60 |
| Daviess-Martin County REMC | 109,393 | 1,788 | 33,265 | 0.19 | 0.49 |
| Decatur County REMC | 41,571 | 1,065 | 13,485 | 0.11 | 0.28 |
| Dubois REC, Inc. | 136,146 | 4,246 | 45,950 | 0.44 | 1.02 |
| Harrison REMC | 133,464 | 5,210 | 43,827 | 0.44 | 1.09 |
| Henry County REMC | 64,418 | 1,716 | 18,966 | 0.17 | 0.42 |
| Jackson County REMC | 112,250 | 3,475 | 34,432 | 0.35 | 0.93 |
| Johnson County REMC | 93,548 | 2,958 | 28,363 | 0.30 | 0.70 |
| Orange County REMC | 70,922 | 2,341 | 21,695 | 0.24 | 0.60 |
| RushShelby Energy | 63,670 | 1,638 | 20,173 | 0.16 | 0.44 |
| South Central Indiana REMC | 65,252 | 1,856 | 21,530 | 0.20 | 0.46 |
| Southeastern Indiana REMC | 108,856 | 3,132 | 33,392 | 0.31 | 0.81 |
| Southern Indiana Power | 118,299 | 3,413 | 36,862 | 0.36 | 0.80 |
| Utilities District of Western Indiana REMC | 114,323 | 3,999 | 34,668 | 0.41 | 0.98 |
| Wayne-White Counties Electric Cooperative | 73,707 | 2,629 | 25,044 | 0.27 | 0.63 |
| Whitewater Valley REMC | 77,018 | 2,090 | 22,947 | 0.21 | 0.50 |
| WIN Energy REMC | 31,145 | 1,108 | 10,030 | 0.12 | 0.27 |
| Total | 1,871,790 | 56,623 | 583,972 | 5.70 | 13.93 |

COMMERCIAL & INDUSTRIAL ENERGY EFFICIENCY PROGRAM

| Cooperative | Total Applications Paid | Cumulative MWh Savings | | | Cumulative Winter Peak MW Savings |
|--|-------------------------------|---------------------------|-----------|-------|---|
| Bartholomew County REMC | 73 | 18,138 | 320,351 | 3.23 | 3.31 |
| Clark County REMC | 66 | 5,163 | 75,422 | 0.92 | 1.00 |
| Daviess-Martin County REMC | 42 | 3,271 | 35,402 | 0.65 | 0.65 |
| Decatur County REMC | 44 | 4,376 | 59,899 | 0.66 | 0.68 |
| Dubois REC, Inc. | 95 | 7,248 | 77,332 | 0.90 | 0.99 |
| Harrison REMC | 58 | 6,176 | 89,843 | 0.94 | 0.98 |
| Henry County REMC | 27 | 1,449 | 19,547 | 0.29 | 0.34 |
| Jackson County REMC | 112 | 2,524 | 35,178 | 0.53 | 0.48 |
| Johnson County REMC | 81 | 8,809 | 121,913 | 1.40 | 1.50 |
| Orange County REMC | 19 | 1,155 | 16,384 | 0.20 | 0.19 |
| RushShelby Energy | 37 | 9,257 | 129,639 | 1.02 | 1.06 |
| South Central Indiana REMC | 83 | 3,578 | 50,020 | 0.49 | 0.53 |
| Southeastern Indiana REMC | 42 | 5,706 | 53,926 | 0.81 | 0.85 |
| Southern Indiana Power | 68 | 11,041 | 157,824 | 1.38 | 1.42 |
| Utilities District of Western Indiana REMC | 68 | 22,587 | 333,518 | 2.74 | 2.96 |
| Wayne-White Counties Electric Cooperative | 23 | 2,490 | 23,714 | 0.53 | 0.55 |
| Whitewater Valley | 32 | 2,037 | 30,908 | 0.28 | 0.28 |
| WIN Energy | 84 | 11,827 | 161,082 | 1.49 | 1.51 |
| Total | 1,054 | 126,832 | 1,791,902 | 18.46 | 19.28 |

ENERGY MANAGEMENT SWITCH PROGRAM

| Cooperative | Total Devices Controlled | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|-----------------------------|---------------------------|--------------------------------------|---|---|
| Bartholomew County REMC | 195 | - | - | 0.15 | 0.10 |
| Clark County REMC | 0 | - | - | 0.00 | 0.00 |
| Daviess-Martin County REMC | 1,191 | - | - | 0.99 | 0.44 |
| Decatur County REMC | 200 | - | - | 0.09 | 0.18 |
| Dubois REC, Inc. | 814 | - | - | 0.36 | 0.14 |
| Harrison REMC | 1,885 | - | - | 1.50 | 0.80 |
| Henry County REMC | 958 | - | - | 0.78 | 0.38 |
| Jackson County REMC | 1,205 | - | - | 0.89 | 0.39 |
| Johnson County REMC | 0 | - | - | 0.00 | 0.00 |
| Orange County REMC | 1,870 | - | - | 1.14 | 0.98 |
| RushShelby Energy | 1,182 | - | - | 0.95 | 0.47 |
| South Central Indiana REMC | 2,018 | - | - | 1.17 | 1.43 |
| Southeastern Indiana REMC | 2,264 | - | - | 1.68 | 1.00 |
| Southern Indiana Power | 1,883 | - | - | 1.46 | 0.74 |
| Utilities District of Western Indiana REMC | 1,321 | - | - | 0.94 | 0.66 |
| Wayne-White Counties Electric Cooperative | 0 | - | - | 0.00 | 0.00 |
| Whitewater Valley REMC | 8 | - | - | 0.00 | 0.01 |
| WIN Energy REMC | 1 | - | - | 0.00 | 0.00 |
| Total | 16,995 | - | - | 12.09 | 7.71 |

OTHER SAVINGS

| Cooperative | Total Measures Installed | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|-----------------------------|---------------------------|--------------------------------------|---|---|
| Bartholomew County REMC | 2,421 | 857 | 8,014 | 0.08 | 0.18 |
| Clark County REMC | 3,986 | 967 | 10,803 | 0.07 | 0.19 |
| Daviess-Martin County REMC | 2,137 | 538 | 6,283 | 0.04 | 0.10 |
| Decatur County REMC | 1,439 | 457 | 3,971 | 0.04 | 0.10 |
| Dubois REC, Inc. | 1,447 | 462 | 4,010 | 0.04 | 0.10 |
| Harrison REMC | 4,511 | 1,657 | 13,140 | 0.24 | 0.45 |
| Henry County REMC | 2,511 | 921 | 8,459 | 0.08 | 0.20 |
| Jackson County REMC | 3,800 | 969 | 12,051 | 0.06 | 0.17 |
| Johnson County REMC | 4,800 | 1,567 | 15,003 | 0.14 | 0.33 |
| Orange County REMC | 2,431 | 870 | 8,103 | 0.08 | 0.18 |
| RushShelby Energy | 2,218 | 673 | 6,597 | 0.06 | 0.14 |
| South Central Indiana REMC | 6,563 | 1,461 | 14,261 | 0.67 | 0.88 |
| Southeastern Indiana REMC | 5,242 | 1,784 | 16,522 | 0.16 | 0.38 |
| Southern Indiana Power | 1,510 | 436 | 3,827 | 0.04 | 0.10 |
| Utilities District of Western Indiana REMC | 4,455 | 1,087 | 12,408 | 0.08 | 0.20 |
| Wayne-White Counties Electric Cooperative | 1,037 | 204 | 3,442 | 0.00 | 0.02 |
| Whitewater Valley REMC | 2,600 | 913 | 8,405 | 0.08 | 0.19 |
| WIN Energy REMC | 2,100 | 560 | 5,931 | 0.05 | 0.11 |
| Total | 55,208 | 16,383 | 161,230 | 2.01 | 4.02 |

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.

RESIDENTIAL HVAC INCENTIVES PROGRAM

| Cooperative | Total Measures Installed | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|-----------------------------|---------------------------|--------------------------------------|---|---|
| Bartholomew County REMC | 1,586 | 2,194 | 32,988 | 0.57 | 1.29 |
| Clark County REMC | 4,233 | 5,242 | 65,271 | 2.06 | 3.30 |
| Daviess-Martin County REMC | 960 | 1,374 | 19,836 | 0.34 | 1.55 |
| Decatur County REMC | 573 | 1,539 | 25,318 | 0.24 | 1.94 |
| Dubois REC, Inc. | 2,051 | 2,753 | 39,346 | 0.75 | 3.57 |
| Harrison REMC | 3,900 | 6,322 | 79,293 | 2.28 | 3.45 |
| Henry County REMC | 608 | 1,180 | 17,746 | 0.26 | 1.43 |
| Jackson County REMC | 2,544 | 5,179 | 74,733 | 1.10 | 2.78 |
| Johnson County REMC | 1,649 | 2,619 | 35,023 | 0.60 | 1.67 |
| Orange County REMC | 978 | 1,456 | 20,807 | 0.29 | 0.60 |
| RushShelby Energy | 884 | 1,443 | 22,700 | 0.29 | 1.74 |
| South Central Indiana REMC | 4,422 | 6,551 | 107,724 | 1.00 | 4.49 |
| Southeastern Indiana REMC | 2,950 | 4,369 | 68,162 | 0.77 | 4.87 |
| Southern Indiana Power | 1,324 | 2,780 | 31,577 | 0.71 | 2.20 |
| Utilities District of Western Indiana REMC | 2,033 | 3,446 | 53,787 | 0.70 | 2.98 |
| Wayne-White Counties Electric Cooperative | 1,058 | 1,108 | 14,988 | 0.37 | 2.14 |
| Whitewater Valley REMC | 860 | 1,298 | 20,539 | 0.27 | 2.19 |
| WIN Energy REMC | 1,958 | 2,489 | 39,759 | 0.46 | 2.27 |
| Total | 34,571 | 53,342 | 769,597 | 13.06 | 44.46 |

TOUCHSTONE ENERGY® HOME™ PROGRAM

| Cooperative | Homes Registered | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|---------------------|---------------------------|--------------------------------------|---|---|
| Bartholomew County REMC | 6 | 28 | 568 | 0.01 | 0.00 |
| 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, Inc. | 96 | 466 | 9,935 | 0.10 | 0.08 |
| Harrison REMC | 161 | 825 | 19,510 | 0.16 | 0.18 |
| 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 | 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 | 0.04 | 0.03 |
| Utilities District of Western Indiana REMC | 19 | 88 | 2,318 | 0.02 | 0.02 |
| Wayne-White Counties Electric Cooperative | 0 | 0 | 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 |
| Total | 576 | 2,824 | 65,472 | 0.57 | 0.55 |

APPLIANCE RECYCLING PROGRAM

| Cooperative | Total Units Collected | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|--------------------------|---------------------------|--------------------------------------|---|---|
| Bartholomew County REMC | 308 | 325 | 2,115 | 0.24 | 0.20 |
| Clark County REMC | 1,119 | 1,090 | 9,060 | 0.29 | 0.25 |
| Daviess-Martin County REMC | 235 | 256 | 1,457 | 0.23 | 0.20 |
| Decatur County REMC | 261 | 280 | 1,878 | 0.24 | 0.20 |
| Dubois REC, Inc. | 1,130 | 1,120 | 8,218 | 0.30 | 0.25 |
| Harrison REMC | 993 | 1,225 | 8,990 | 0.29 | 0.25 |
| Henry County REMC | 474 | 434 | 3,731 | 0.25 | 0.21 |
| Jackson County REMC | 833 | 891 | 6,434 | 0.28 | 0.24 |
| Johnson County REMC | 174 | 180 | 899 | 0.23 | 0.20 |
| Orange County REMC | 15 | 35 | 267 | 0.22 | 0.19 |
| RushShelby Energy | 581 | 554 | 3,907 | 0.26 | 0.22 |
| South Central Indiana REMC | 969 | 890 | 7,135 | 0.28 | 0.24 |
| Southeastern Indiana REMC | 1,520 | 1,410 | 12,612 | 0.31 | 0.26 |
| Southern Indiana Power | 494 | 377 | 3,521 | 0.24 | 0.20 |
| Utilities District of Western Indiana REMC | 567 | 564 | 4,399 | 0.25 | 0.22 |
| Wayne-White Counties Electric Cooperative | 247 | 254 | 1,271 | 0.24 | 0.20 |
| Whitewater Valley REMC | 403 | 413 | 3,071 | 0.24 | 0.21 |
| WIN Energy REMC | 268 | 286 | 1,875 | 0.23 | 0.20 |
| Total | 10,591 | 10,584 | 80,840 | 4.62 | 3.94 |

LED SECURITY LIGHTING PROGRAM

| Cooperative | Total Measures Installed | Cumulative MWh Savings | Estimated Lifetime MWh Savings | Cumulative Summer Peak MW Savings | Cumulative Winter Peak MW Savings |
|--|-----------------------------|---------------------------|--------------------------------------|---|---|
| Bartholomew County REMC | 507 | 331 | 7,360 | 0.01 | 0.02 |
| Clark County REMC | 783 | 561 | 14,666 | 0.01 | 0.03 |
| Daviess-Martin County REMC | 40 | 21 | 757 | 0.00 | 0.00 |
| Decatur County REMC | 885 | 637 | 9,709 | 0.01 | 0.03 |
| Dubois REC, Inc. | 1,021 | 719 | 13,517 | 0.01 | 0.04 |
| Harrison REMC | 2,205 | 1,421 | 24,882 | 0.02 | 0.09 |
| Henry County REMC | 2,040 | 1,335 | 24,327 | 0.02 | 0.07 |
| Jackson County REMC | 2,435 | 1,542 | 27,652 | 0.02 | 0.09 |
| Johnson County REMC | 2,232 | 1,435 | 26,715 | 0.02 | 0.08 |
| Orange County REMC | 626 | 390 | 7,337 | 0.00 | 0.02 |
| RushShelby Energy | 739 | 482 | 8,651 | 0.01 | 0.03 |
| South Central Indiana REMC | 1,048 | 604 | 12,494 | 0.01 | 0.02 |
| Southeastern Indiana REMC | 3,068 | 1,925 | 31,774 | 0.02 | 0.10 |
| Southern Indiana Power | 1,464 | 1,031 | 15,715 | 0.02 | 0.07 |
| Utilities District of Western Indiana REMC | 1,247 | 809 | 13,505 | 0.01 | 0.04 |
| Wayne-White Counties Electric Cooperative | 1,834 | 1,212 | 20,651 | 0.02 | 0.06 |
| Whitewater Valley | 1,741 | 1,177 | 18,860 | 0.02 | 0.06 |
| WIN Energy | 2,053 | 1,337 | 27,981 | 0.02 | 0.09 |
| Total | 25,968 | 16,969 | 306,553 | 0.25 | 0.94 |

BASIC PROGRAM ASSUMPTIONS

| Measure Name | Annual kWh Savings | Winter kW Demand Savings | Summer kW Demand Savings | Installation Rate | Effective Useful Lif (Years) |
|--|--------------------------|--------------------------------|--------------------------------|----------------------|------------------------------------|
| RESIDENTIAL LIGHTING PROGRAM | | | | | |
| .ED Lighting (Standard) | 26.5 | 0.029 | 0.029 | 70% | 13 |
| .ED Lighting (Specialty) | 34.1 | 0.037 | 0.037 | 70% | 13 |
| ED Security Lights | 525.6 | 0.120 | 0.120 | 100% | 18 |
| APPLIANCE RECYCLING PROGRAM | | | | | |
| Refrigerator Recycling | 1,002.2 | 0.140 | 0.140 | 100% | 8 |
| reezer Recycling | 932.5 | 0.134 | 0.134 | 100% | 8 |
| RESIDENTIAL HVAC PROGRAM | | | | | |
| leat Pump Water Heaters | 1,702.5 | 0.672 | 0.672 | 100% | 13 |
| leat Pump (14 SEER) [Manufactured Home] | 436.0 | 0.170 | 0.160 | 100% | 18 |
| leat Pump (15 SEER) [MH] | 533.0 | 0.070 | -0.020 | 100% | 18 |
| leat Pump (16 SEER) | 1,103.0 | 0.350 | 0.100 | 100% | 18 |
| leat Pump (17 SEER) | 1,281.0 | 0.820 | 0.170 | 100% | 18 |
| leat Pump (18 SEER) | 1,286.0 | 0.830 | 0.310 | 100% | 18 |
| leat Pump (14 SEER) Dual Fuel [MH] | -2,769.0 | 0.000 | 0.160 | 100% | 18 |
| leat Pump (15 SEER) Dual Fuel [MH] | -4,150.0 | 0.000 | 0.260 | 100% | 18 |
| leat Pump (16 SEER) Dual Fuel | -6,263.0 | 0.000 | 0.300 | 100% | 18 |
| leat Pump (17 SEER) Dual Fuel | -7,163.0 | 0.000 | 0.360 | 100% | 18 |
| leat Pump (18 SEER) Dual Fuel | -6,768.0 | 0.000 | 0.380 | 100% | 18 |
| leat Pump (14 SEER) Electric Resistance Replacement [MH] | 4,765.0 | 3.700 | 0.160 | 100% | 18 |
| leat Pump (15 SEER) Electric Resistance Replacement [MH] | 23,692.0 | 4.120 | 0.200 | 100% | 18 |
| leat Pump (16 SEER) Electric Resistance Replacement | 23,964.0 | 4.400 | 0.320 | 100% | 18 |
| leat Pump (17 SEER) Electric Resistance Replacement | 23,551.0 | 4.870 | 0.390 | 100% | 18 |
| leat 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 |
| Aini 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 |
| 4ini Split Heat Pump (20 SEER) | 2,749.2 | 3.550 | 0.970 | 100% | 18 |
| ENERGY EFFICIENCY KIT | | | | | |
| | | | | | |
| Energy Efficiency Kit A | 118.5 | 0.028 | 0.012 | 50% | 14 |

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| Measure Name | Annual kWh Savings | Winter kW Demand Savings | Summer kW Demand Savings | Installation Rate | Effective Useful Life (Years) |
|--|--|--------------------------------|--------------------------------|----------------------|-------------------------------------|
| C&I ENERGY EFFICIENCY PROGRAM | | | | | |
| All commerical & industrial savings are calculated for each | individual rebate claim based on the e | stimated existing | and replacement w | vattages and time u | ised. |
| 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 |
| DEMAND RESPONSE | | | | | |
| <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 |
| RETIRED MEASURES | | | | | |
| RETIRED MEASURES Measures that were incentivized in previous program year | rs continue to contribute to overall n | onram savinns fo | r the duration of th | ne measure life | |
| on a per unit basis. The measures below are for historical | reference when reviewing cumulativ | e savings totals. | | io mododi o mo, | |
| Touchstone Energy Homes | 5,397.0 | 4.520 | 0.740 | 100% | 25 |
| Neatherized Homes (HE & ARRA) ¹ | 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 |
| 30 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 |
| John Marine (10 Charle) | 221.0 | 3.020 | 0.000 | 100/0 | 10 |

257.0

325.0

0.000

0.000

0.390

0.530

100%

100%

18

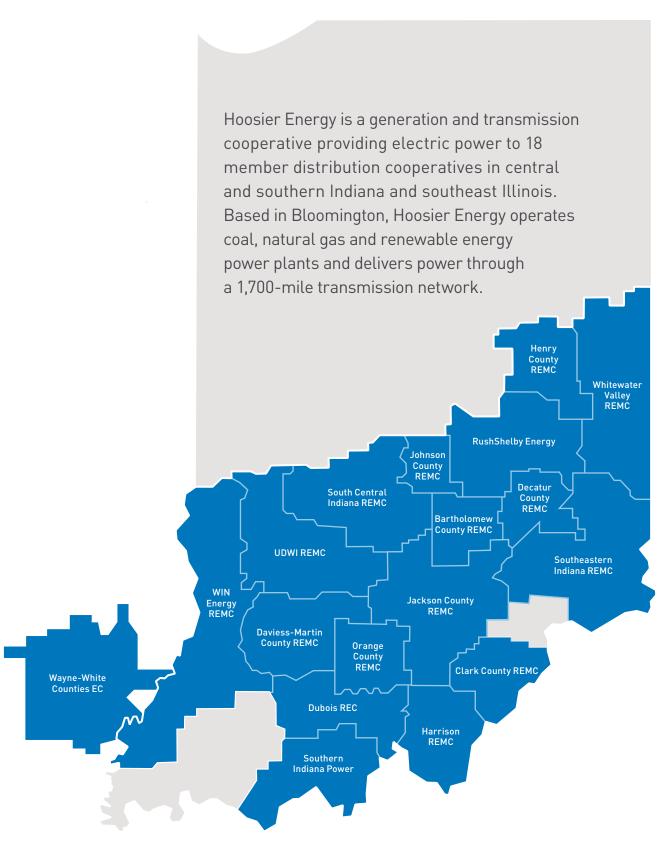
18

Central AC (17 SEER)

Central AC (18 SEER)

Basic program assumptions were updated in 2016. 'Hoosier Energy and American Recovery and Reinvestment Act

THE HOOSIER ENERGY POWER NETWORK







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