

# Solar Facilities



Solar energy farm in New Castle, Indiana

## WHEN THE SUN SHINES, HOOSIER ENERGY AND ITS MEMBER SYSTEMS BEAM.

As a cooperative, Hoosier Energy is committed to bringing reliable and affordable energy to member systems. Our 10-megawatt regional solar program supports the cooperative principles of cooperation among cooperatives and concern for the community.

The program consists of ten, 1-megawatt solar arrays located along highly visible roadways across southern Indiana. Each provides benefits for both the nearby local cooperatives as well as all 18 member systems. The cost for generating solar power through a utility-scale program is significantly less per kilowatt hour when compared with individual, smaller scale systems.

A key goal of the solar program is to learn how this variable energy resource integrates onto the grid and how solar might offset the need for

other, more costly energy resources during periods of high demand. Once collected, this information will help member distribution systems give advice to their member consumers on the operational issues, costs and benefits of solar as a renewable energy resource.

Collectively, the 10 solar sites provide approximately 20,000,000 kilowatt-hours (kWh) of energy annually for the 300,000 homes, businesses and farms served by Hoosier Energy's 18-member distribution cooperatives.

The solar program is also contributing to Hoosier Energy's target of supplying 10 percent of member voluntary energy requirements from renewables by 2025.

A cooperative solar program –“My Solar” will be rolled out in 2018 through participating member systems.

# Solar Fast Facts

**1,000 kW**  
SINGLE AXIS TRACKING SOLAR

**2,000,000 kWh/YEAR**  
ENOUGH POWER FOR APPROXIMATELY 150 HOUSES

**4,000 PANELS**

**25 YEARS**  
PROJECTED LIFESPAN

**8 ACRES**  
6 FOOTBALL FIELDS

**18 INVERTERS**  
TO CONVERT  
DC ELECTRICITY TO AC

**3 MONTHS**  
TO BUILD AND INTERCONNECT

## RENEWABLES RESOURCE CAPACITY

From Hoosier Energy, your cooperative's power supplier

2020 RENEWABLE  
RESOURCE CAPACITY:

**WIND: 125 MW**

**HYDRO: 4 MW**

**SOLAR: 10 MW**

**LANDFILL  
GAS 31 MW**

## GROWTH IN CO-OP SOLAR

Co-op solar nationwide has risen dramatically over the last several years, with more capacity coming on line all the time. Much of the growth can be attributed to collaboration among co-ops and a desire to support community solar programs.

Capacity (MW)	2010	2011	2012	2013	2014	2015	2016	2017	Planned 2018-2022
Solar PV	36	47	64	79	94	150	325	766	774
Community PV	0.3	1	6	14	16	30	52	107	27
Total	37	48	70	93	110	180	377	873	801

Source: NRECA

## PERCENT OF RENEWABLE ENERGY BY YEAR

2014

**3%**

2016

**4%**

2020  
PROJECTED

**7%**

2025  
PROJECTED

**10%**

## HOOSIER ENERGY AND MEMBER SYSTEMS COMMITMENT

IN **2000:**

100% Coal



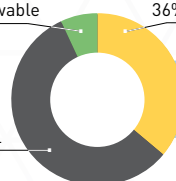
**1,250 MW** resource  
portfolio was 100% coal.

**TODAY:**

7% Renewable

36% Natural Gas

57% Coal



**2,000 MW** resource portfolio  
is more diversified.