



2019 Tour locations:

1. Alliant Energy Downtown Dubuque solar project
1001 East 12th Street
2. Colonial Terrace Animal Hospital
2777 University Avenue
3. Dubuque Rescue Mission
398 Main Street
4. Shane Hoeper residence
2520 North Grandview Avenue

Interactive map online:
dubuquecounty.energydistrict.org

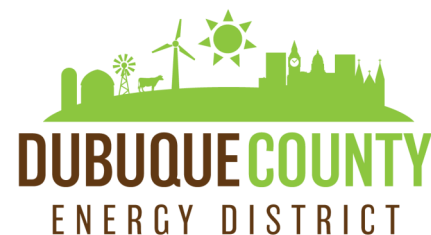
SOLAR & ENERGY EFFICIENCY TOUR

DUBUQUE
April 13, 2019
10am–1pm

FREE!

Visit the
 sites in any
 order

**Self-
 guided**



dubuquecounty.energydistrict.org



1

Alliant Energy Downtown Dubuque solar project

1001 East 12th Street

Alliant Energy collaborated with the City of Dubuque, A.Y. McDonald Mfg. Co. and the Greater Dubuque Development Corporation to build this utility-scale solar site. The solar farm is reusing a previous industrial site near downtown Dubuque. This transforms the 5.95 acres of land to a source of renewable energy. Rated Envision® Platinum by the Institute for Sustainable Infrastructure, the first-ever solar project to receive this recognition.



BY THE NUMBERS

Solar size: 1 MW DC

Solar panels: 3,536

Estimated annual output:
1,142,000 kWh

Can power 126 homes annually

3

Dubuque Rescue Mission

398 Main Street

As participants in the Community Foundation of Greater Dubuque's "Grants to Green" program, the Mission was able to fund lighting upgrades, insulation, air sealing, HVAC tune-ups, and a tankless water heater. The solar array was made possible by a rebate from Alliant Energy.



BY THE NUMBERS

Solar size: 21 kW

Energy efficiency upgrades reduced total energy use by 16.9%

2

Colonial Terrace Animal Hospital

2777 University Avenue

Dr. Joan McCleary and her husband Brian installed their solar system in 2018 to cut down on their energy bill and help improve their carbon footprint. The solar system is comprised of five arrays on multiple roofs. Monocrystalline modules with black frames and rails were used to help it blend into the roof.



BY THE NUMBERS

Solar size: 42.4 kW DC

Solar panels: 118

Estimated Annual Output: 52,650 kWh

Estimated Annual Savings: \$6,650

4

Shane Hoeper residence

2520 North Grandview

Known as "The Rockpile" Shane's residence is Iowa's most energy efficient home. Designed and built by Hoeper Green Power in 2017, it has received Passive House certification from Passive House Institute (US). The Rockpile was designed to meet Passive House standards using commonly sourced materials and building techniques at an affordable price.



BY THE NUMBERS

PV production: 9779 kWh annually

Buy 4086 kWh annually; "sell" back to Alliant 8330 kWh annually.

PHIUS 2015+ certified with a zero source energy credential

Indoor AirPLUS certified

DOE Zero Energy Home certified

Watersense qualified