

Reducing Our Carbon Footprint Using Solar Energy in Wayne County



Lubell Residence Solar Energy System, Wooster, OH





Installed by Paradise Solar

**14.4 kW Agricultural
Roof Mount**

Wayne Count Unitarian Universalist Fellowship Church

First LEED Gold Church in the USA

Constructed in 2006, 6000 ft³ building

EARTH FRIENDLY CONSTRUCTION:

- An engineered structural panel system creates air-tight highly insulated walls and roof.
- 20 kW Solar Array provides electrical and heat energy

FRESH AIR:

- Windows allow cross ventilation
- Paints, finishes, carpets and woods are low Volatile Organic products

NATURAL LIGHT:

- Multiple clerestory windows face south maximizing ambient lighting.
- Site light fixtures are "Night Sky" approved to not disturb the night sky.

WATER SAVINGS:

- Rainwater is captured in a 1500 gallon underground cistern, used to flush toilets and irrigate.

ENERGY USE:

- Heat and cooling with an Electric heat pump, building uses 32.4% less energy.
- Compact fluorescent and LED interior lighting
- Multiple lamp settings allow for an efficient supplement to natural lighting.

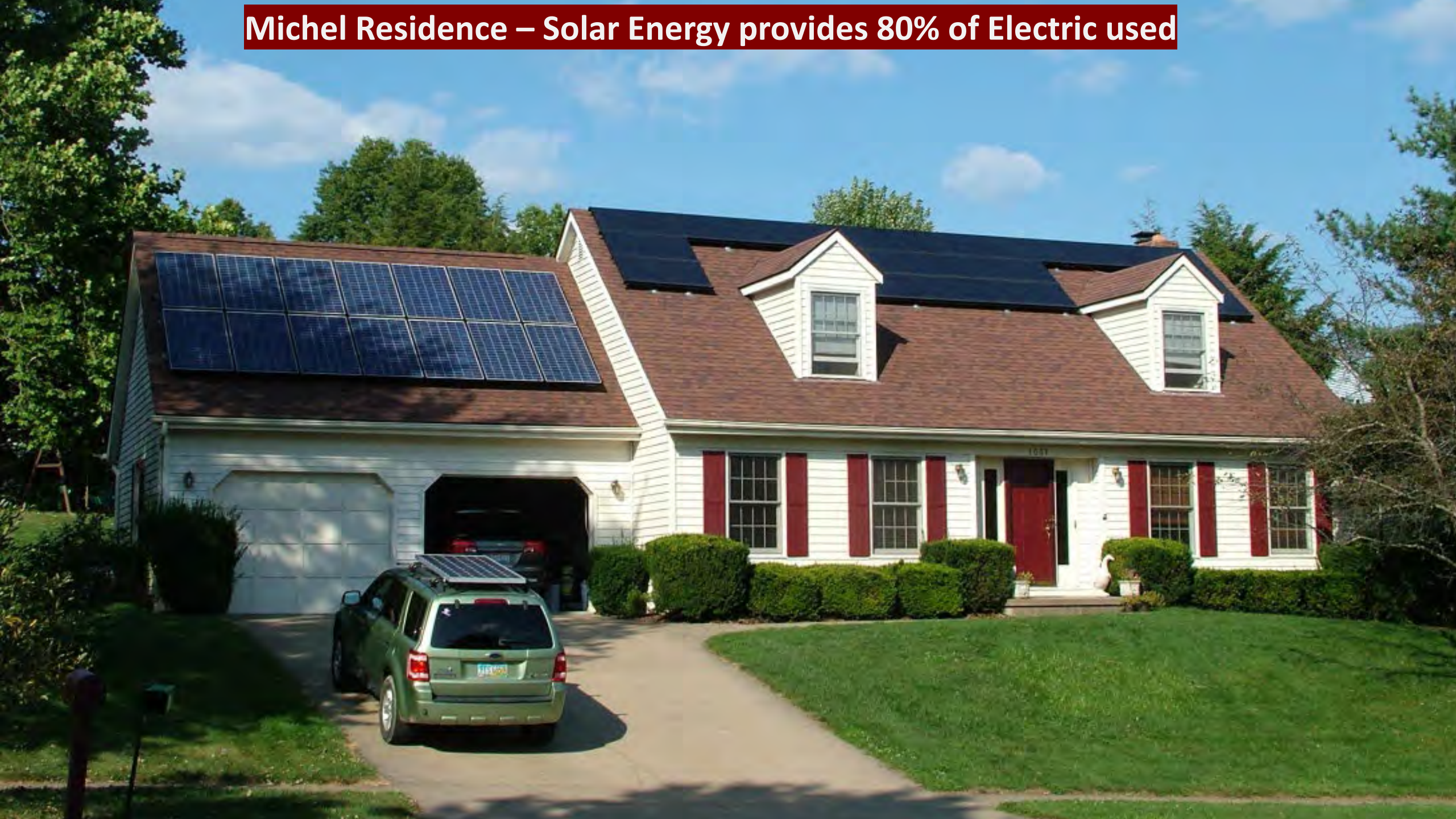




Solar Energy provides 94% of Electricity Used



Michel Residence – Solar Energy provides 80% of Electric used



G&S Titanium, Wooster

68 kW solar PV



20 kW Home Solar System outside Wooster



Powers Residence, Marshallville

3.3 kW solar PV, solar thermal, passive solar, biomass heat



20,000 square feet of solar panels on the roof of the Scot Center.



Duxbury Residence, Orrville

2.4 kW wind turbine



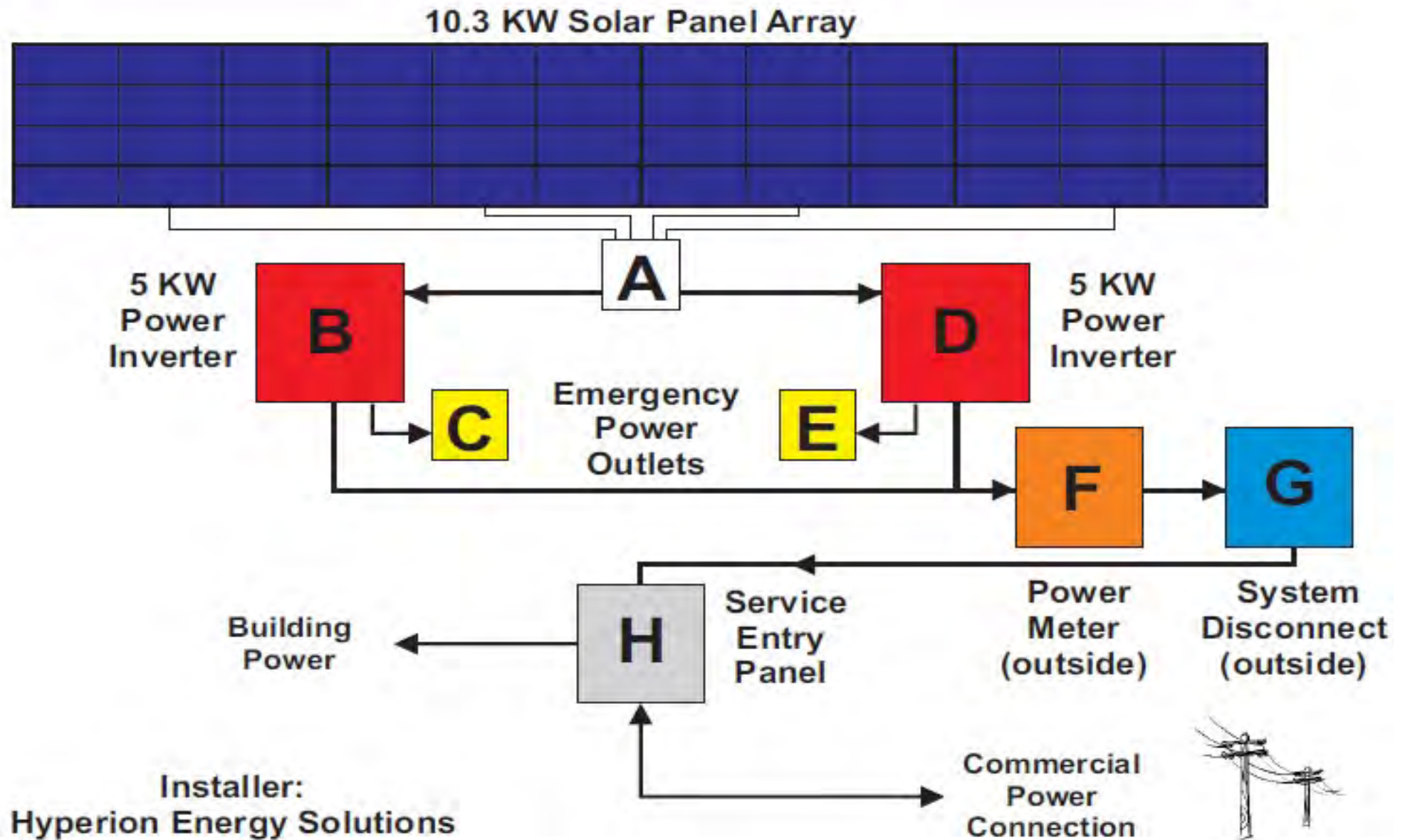


Solar
powered Tesla S

Romich Farm, Solar Energy System, Creston



Romich Farm, Solar Energy System, Creston



Polk, Ohio Farm (Ashland Co.)
PV Array: 20 kW used for Grain Drying





Norwayne Elementary



DATE: November 2010

LOCATION:

Norwayne Elementary School
Outdoor Classroom Pavilion
350 S. Main Street
Creston, Ohio

FEATURES:

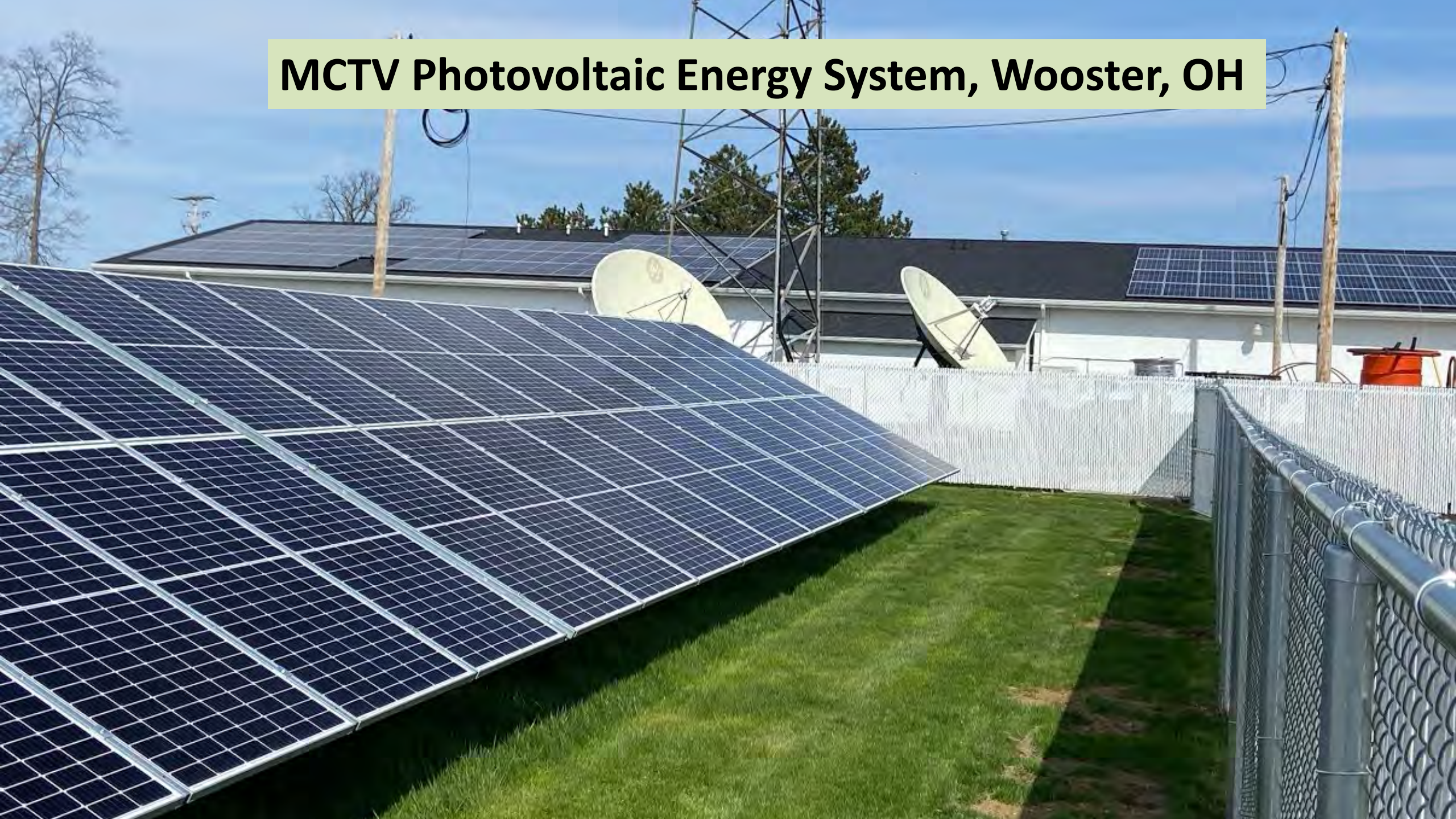
- 16 Uni-Solar PVL-136
Photovoltaic Panels



Marshallville, OH Municipal Photovoltaic Energy System



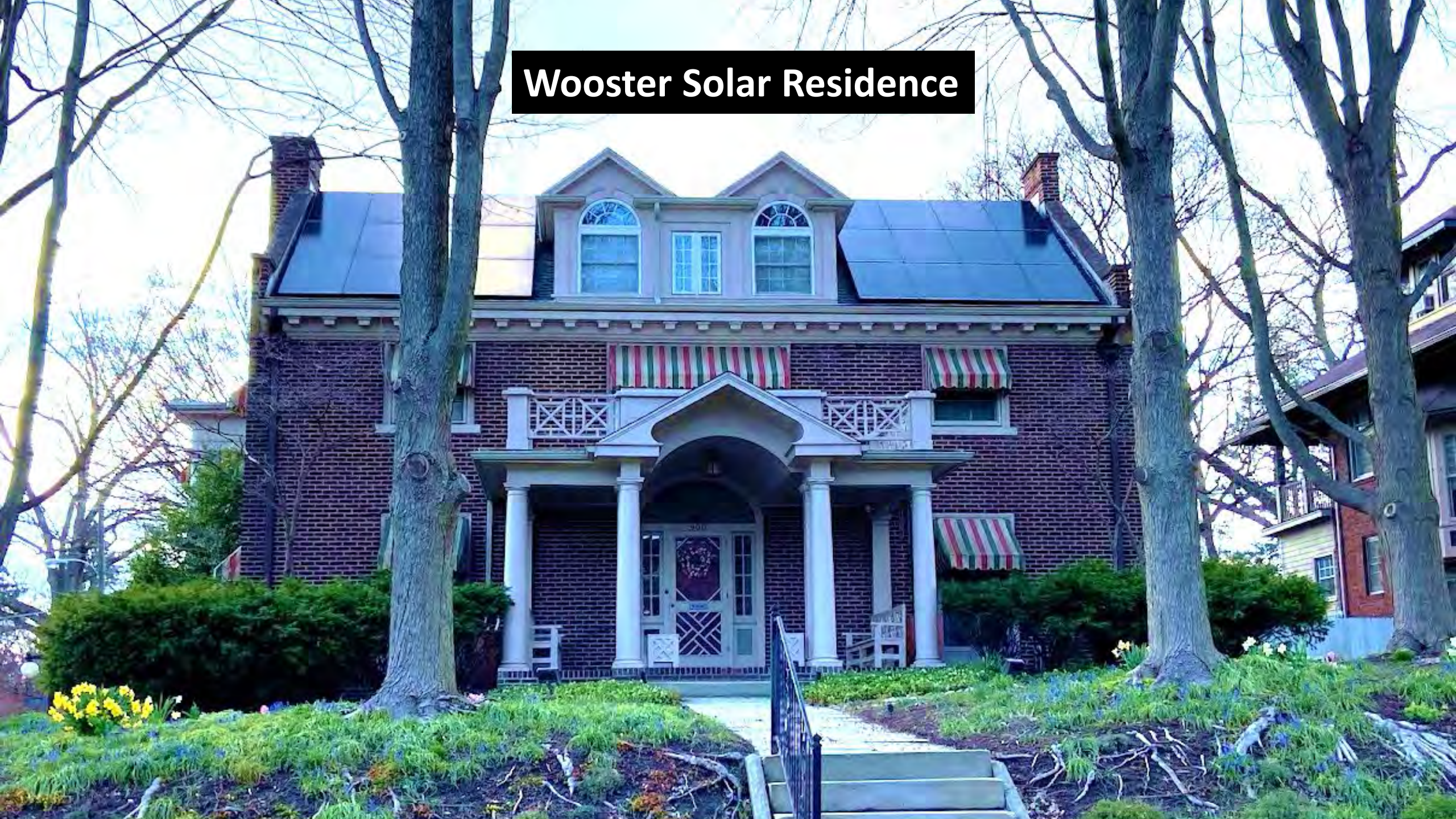
MCTV Photovoltaic Energy System, Wooster, OH



A tall, modern skyscraper in Milan, Italy, known as the Vertical Forest. The building is covered in lush green plants and trees, with many balconies overflowing with vegetation. In the foreground, there is a field of colorful flowers, including red and pink poppies. The sky is clear and blue.

Urban Forest Milan, OH

Wooster Solar Residence



Shull Residence Solar Energy System, Wooster, OH



**Aspen Racquet Club
Solar Energy System
Wooster, OH**





Wiandt Residence, Burbank
3.4 kW solar PV, 72,000 BTU solar thermal

Gojo Solar Eenergy System, Wooster, OH



Gojo Solar Energy System, Wooster, OH



Armstrong Building



DATE: July 2010

LOCATION:

Armstrong Building
Wayne County Fairgrounds
199 Vanover Street
Wooster, Ohio

FEATURES:

- 32 Uni-Solar PVL-68
Photovoltaic Panels



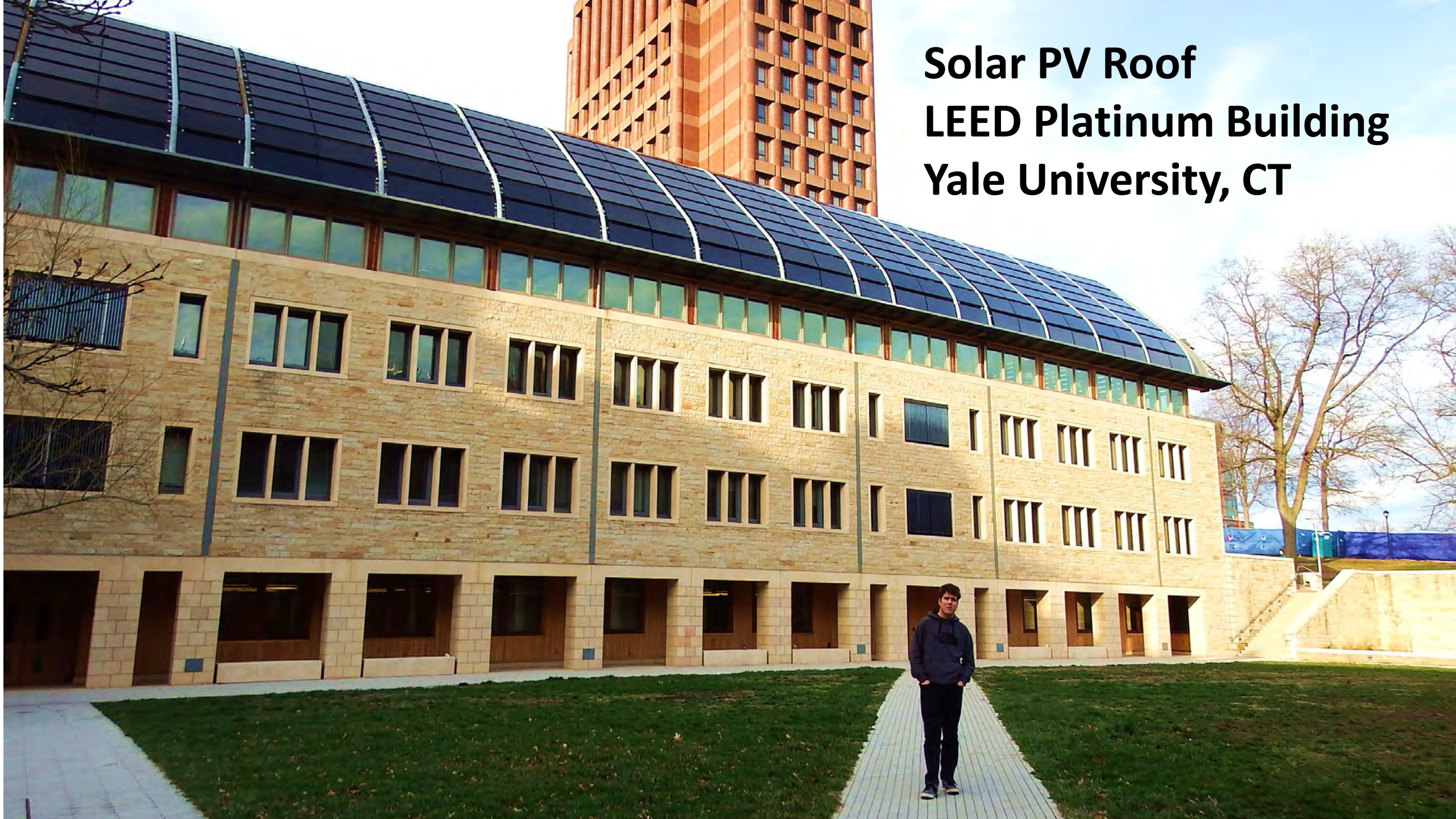


**Funk Residence,
N Lawrence, OH**

3 kW solar PV,
Geothermal Ground Source Heat pump



**Solar PV Roof
LEED Platinum Building
Yale University, CT**



**94.3 kW Agricultural
Roof Mount**



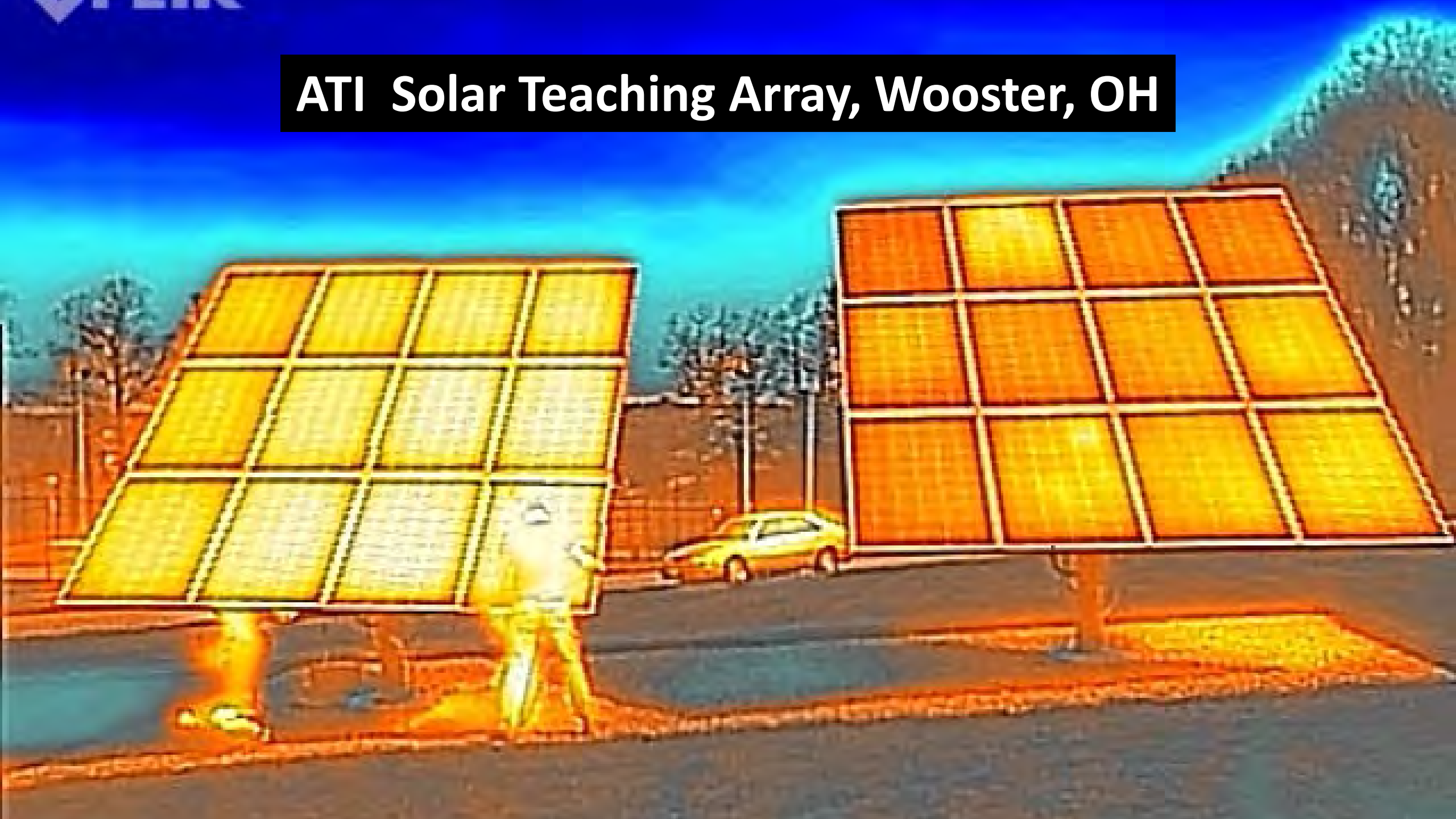
Solar Thermal Mojave, CA
280 MW powers 90,000 homes



Wooster Solar Residence



ATI Solar Teaching Array, Wooster, OH



OSU Wooster Campus Community Recycling Station







The future will be brighter



DIY Solar System, Charm, OH





**Wayne County Regional
Fire Training Facility,
Apple Creek**

OU Composting and Solar Energy Facility, Athens, OH





Off -Grid
Solar PV
Power
Supply
Mohican, OH

Flat Roof Solar Energy System, Wayne County, OH





CFAES



Wooster

SCARLET, GRAY, AND GREEN FAIR

The Green Way to Celebrate Earth Day

Saturday, April 23, 2022, 10 am-4 pm

Exhibits

- Education, Entertainment and Prizes
- Be an Exhibitor! (*see web site*)

Green Mobility Cruise-In

Food Vendors (*Zero Waste!*)

Speaker Presentations

Miller Pavilion, 10 am-12:15 pm

- Climate Action
- Local Food Benefits and Challenges
- Recycling and Repair Cafe

Tours

- Secrest Arboretum (1, 2 & 3 pm)
- Quasar Anaerobic Digester (1 pm)
- LEED Science Bldg & Bug Zoo (2 pm)
- Composting Center (3 pm)

Ohio State University Secrest Arboretum

Welcome and Education Center

2112 Williams Rd., Wooster OH 44691

Free & Open to the Public!

Recycling Station (*exit Secrest Rd at Pounden, follow signs*)

- Document shredding, office paper and cardboard
- Drugs (*see web site for details*)
- Fluorescent tube and CFL lights, batteries
- Small electronics, computers, LCD/LED monitors
- Scrap metal & eWaste
- Bicycles, locks, helmets

(*No paint, tires, CRTs or large appliances*)

Event Sponsor and info:



wcsen.org
u.osu.edu/ssggf



**THE OHIO STATE
UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

WOOSTER