

Sunday October 7, 2007

Akron Metro Tour

Bus Tour Layout

| | |
|------------------|----------------------------|
| 12:00pm – 1:00pm | Crown Point Ecology Center |
| 1:15pm – 2:15pm | Starre Residence |
| 2:30pm – 3:30pm | Reidel Residence |
| 3:45pm – 4:45pm | Akron Zoo |
| 5:00pm – 6:00pm | Deneen Residence |

*Sites Not on Bus Tour,
but Available During Open House Hours:*

2:00pm – 4:00pm Patterson Residence

The Akron Metro Tour commences with a kick-off and guided tour at the Crown Point Ecology Center. From there you can hop on the FREE bus or caravan in your own car to six sites around the Akron area. These sites can be also visited individually during the open house hours listed or during bus visit times.

Complementary tickets for the Akron Zoo tour will be handed out at the Crown Point Ecology Center on a first-come first-serve basis with preference given to those that ride the bus. RSVP is required to reserve a spot on the bus by October 3rd.

Contact Athan Barkoukis at athan@greenenergyohio.org or by phone at (216) 526-5545.

Discounts

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Akron Metro Tour



CROWN POINT ECOLOGY CENTER

3220 Ira Road
Bath, Ohio 44210

HOURS

Sunday, October 7

Kick-Off: 12:00 pm

Open House: 12:00 – 2:00 pm

Directions

From the South: Take I-77 to exit 138 (Ghent Rd) and turn left off the ramp onto Ghent/Cleveland-Massillon Rd. Continue to north on Cleveland-Massillon Rd. to Ira Rd. and turn right. Crown Point is one mile on the right.

From the North: Take I-77 South to exit 143 (Richfield/Wheatley Rd). Turn right off ramp and left at first traffic light (Brecksville Rd). Continue south to Ira Rd and turn left. Crown Point is one mile on the right.

Site Information

The Crown Point Ecology Center is a ministry of the Sisters of Saint Dominic of Akron. As is evident in all of its activities, Crown Point Ecology Center supports the principles of sustainability, community, spirituality and justice. Crown Point operates a Certified Organic produce farm that supports a 70-family Community Supported Agriculture (CSA) program and provides fresh produce donations to the Akron-Canton Regional Food Bank. CSA families receive a weekly portion of the harvest during the growing season. The farm also participates in the Peninsula Countryside Farmers' Market in Cuyahoga Valley National Park.

During the winter months, workers occupy a passive solar designed and completely insulated 400 square ft building that is heated by a solar collector attached to the south facing wall of the maintenance barn. Property Manager, Larry Jarvis uses the workroom year round as a machine and woodwork shop for maintenance of equipment and upkeep of the ecology center. Over two winters of use, the temperature in the workroom has never reached freezing and the on the coldest day (14 degrees) the temperature in the workroom reached 83 degrees!

STARRE RESIDENCE

4209 State Road
Medina, Ohio 44256

HOURS

Sunday, October 7

Open House: 1:00 – 4:00 pm

Bus Visit: 1:15 – 2:15 pm

Directions

From Crown Point Ecology Center: Head west on Ira Rd. Turn left (south) on N. Hametown Rd. Turn right (west) on W. Bath Rd. Turn left on Allard Rd. (south). Turn left on State Rd. (west).



Site Information

Nestled on a 31.5 acre property, the Starre home exemplifies green building practices and minimizes its ecological footprint on the environment. Completed in 2005 by Galehouse Construction Co., the Starre home, utilizes a passive solar design with the backside set into the earth, creating an earth berm component that helps regulate temperature. The house features many recycled

products, including reclaimed lumber for the floors and cabinets, along with previously discarded ceramic tiles for the bathroom and kitchen areas. Energy efficiency is highlighted by the use of R-25 and R-40 insulation in the walls and roof and 2x6" studs that allow for extra insulation. Geothermal wells and radiant floor heating combined with all energy star rated appliances, skylights, solar tubes and water conservation measures significantly reduce energy consumption and utility bills.

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Akron Metro Tour

RIEDEL RESIDENCE

2901 Yellow Creek Road
Akron, Ohio 44333

HOURS

Sunday, October 7

Bus Visit: 2:30 – 3:30 pm

Directions

From the Starre Residence, turn left (East) on Granger Rd. Turn right (South) on N. Cleveland Massillon Rd. Turn left (East) on Yellow Creek Rd.



Site Information

The Riedel family began planning their timber frame home in 2000 to be energy independent by using passive solar design, solar photovoltaics (PV) and solar thermal technologies. After extensive research, they relied on information for orienting the building towards the south for maximum sun exposure, insulation, ventilation, shading, daylighting, and heating. With the help of Third Sun Solar & Wind Power,

they designed a free-standing 9 kW PV system to supplement the home's electricity needs along with a closed-loop solar thermal system for a radiant floor heating system and domestic hot water system. The PV system is grid-tied and the Riedels have a net metering agreement with FirstEnergy, which credits their utility bill for any excess energy generated onsite.



Site Information

The Patterson residence features a batch, 4x4 ft. passive solar hot water heater that was completely constructed from recycled materials. The hot water heater produces 50% of the 1400 sq. ft. home's hot water needs during the Spring and Fall and 100% during the Summer months. The system has

Directions

From the Reidel Residence, bear right (East) on W. Bath Rd. Turn left (Northeast) on Graham Rd. Turn left (North) on Englewood Dr. Turn left (east) on Rose Ave.

PATTERSON RESIDENCE

3825 Kay Drive
Stow, Ohio 44224

HOURS

Sunday, October 7

Optional Drive-By Site

Open House: 2:00 – 4:00 pm

been in operation for three years, and the owner is looking to upgrade to a heat exchanger or a closed loop system in the near future.

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Akron Metro Tour

AKRON ZOO
500 Edgewood Avenue
Akron, Ohio 44307

HOURS
Sunday, October 7
Bus Visit: 3:45 – 4:45pm



Site Information

In 2007 the Akron Zoo announced that their Education Center, Komodo Kingdom, received the prestigious LEED certification from the U.S. Green Building Council. Komodo Kingdom is the first building in Summit County and the 15th in Ohio to receive this honor. The Akron Zoo now joins the Woodland Park Zoo in Seattle and the San Diego Zoo as the only accredited zoos in the U.S. with LEED certified buildings. Komodo Kingdom was built with reduced site disturbance and 84% of project construction waste was diverted from a landfill and recycled. Further, over 52% of total project materials were manufactured within 500 miles of the Akron Zoo.

Many green design elements were utilized in Komodo Kingdom, including natural lighting with numerous windows that were placed in the café and main hallway. The heating and cooling system is energy efficient and uses geothermal technology. Additionally, the concrete block and carpeting were made from recycled materials. Outside of Komodo Kingdom, the zoo is landscaped with drought tolerant plants, avoiding the need for an irrigation system.

Directions

From the Riedel Residence, right (southeast) on N. Revere Rd. Left on (east) SR-18 (W. Market St.) Right (south) on Rhodes Ave. Right (west) on SR-162 (Maple St.). Left on Edgewood.

DENEEN RESIDENCE
Akron, Ohio 44312

HOURS
Sunday, October 7
Bus Visit: 5:00 –6:00 pm



Site Information

The Deneen Residence features a 5.2 kW Kyocera photovoltaic array with an Outback Inverter. A solar powered gable fan was installed to reduce attic temperature and cooling load in summer. To reduce the electrical load all lighting in the home is provided by compact fluorescent light bulbs. Further, the landscape lighting utilizes light-emitting diode (LED) lights.

Since the PV system went ‘live’ on Earth Day 2007, the Deneen home for the past four months has shown a year over year decrease in purchased power of 87.3%.

Directions

From the Akron Zoo, south on Edgewood Ave. toward Bishop St. Turn left onto Monroe St. Turn right onto Rand St. Turn right onto Dart Ave. Turn left onto W. South St. Merge onto I-77 S / I-76 E. Merge onto US-224 E via exit 122A on the left toward Mogadore. Turn right onto Hilbish Ave.