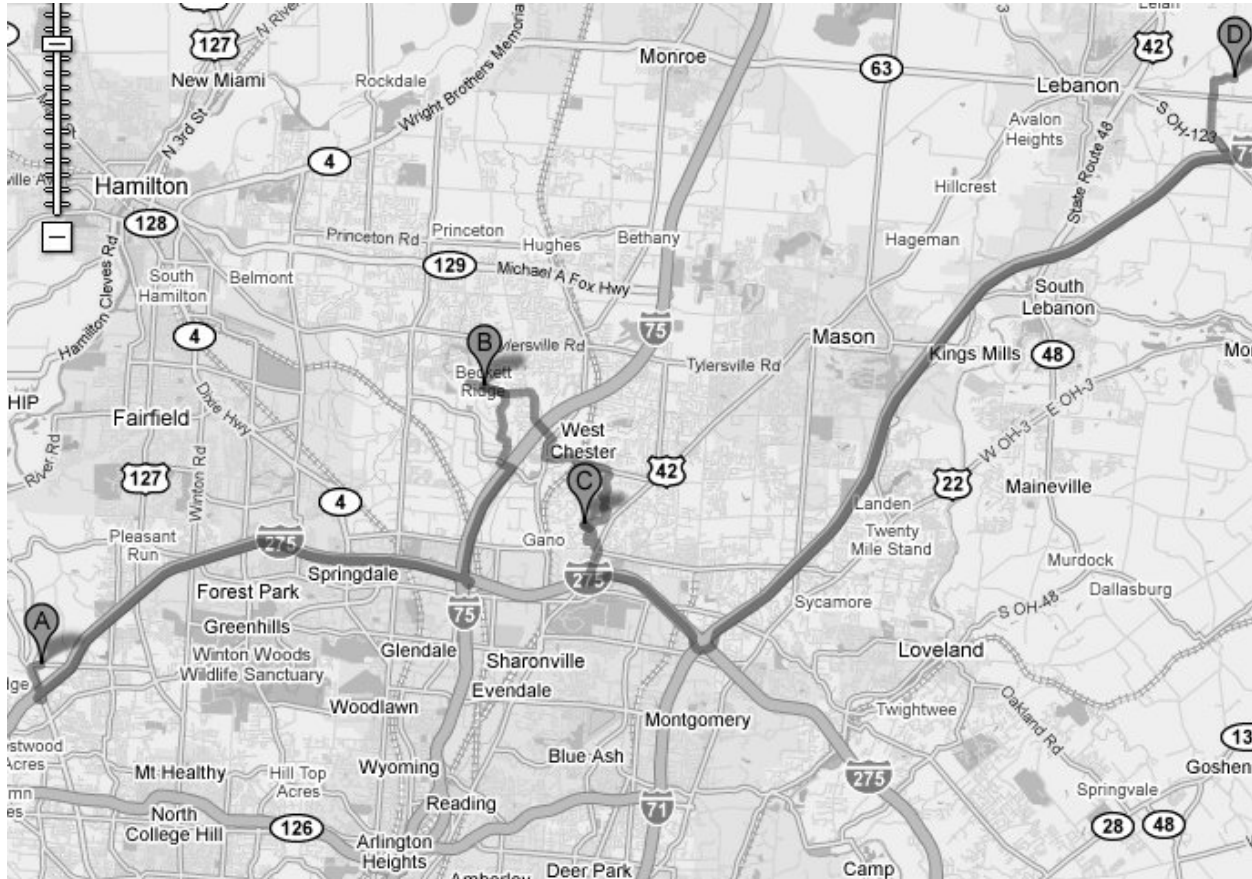


# 2008 Cincinnati North Solar Tour Guidebook



## SITES

- A. Rumpke Sanitary Landfill Including Landfill Gas Recovery
- B. Murphy Residence
- C. Foote Residence
- D. Wilson Residence

	A	B	C	D
Solar Electric		•	•	•
Solar Thermal				
Passive Solar				
Geothermal				
Other	•	•	•	•

## OVERVIEW

The Cincinnati North Metro Tour commences with a 10:00 AM kick-off and guided tour at Rumpke Sanitary Landfill.

Cars can be left at the Rumpke Sanitary Landfill and carpool will then take attendees to 3 other sites around Cincinnati's North area, returning by 3:30 PM to Rumpke Sanitary Landfill.

For questions call: 513.766.6025 or [cadams@sunrocksolar.com](mailto:cadams@sunrocksolar.com).

**A. Rumpke Sanitary Landfill**

3800 Struble Road  
Cincinnati, 45251

Hours: Saturday, October 4th

Kick-off & Guided Tour: 10:00 – 11:00 AM

**Site Information:** Seven percent of Duke Energy’s gas supply comes from Cincinnati’s own local source: The Rumpke Sanitary Landfill. Montauk Energy Capital recently expanded the landfill gas recovery facility at the Rumpke Sanitary Landfill. The new operation converts about 1.4 million cubic feet of landfill gas daily into natural gas – enough to power 25,000 homes in Duke Energy’s service territory- making the Montauk facility the largest of its kind in the world. Landfill gas produced naturally within Rumpke Sanitary Landfill is collected through a system of vertical gas wells located throughout the landfill footprint. Horizontal piping conveys the landfill gas to Montauk’s gas processing facilities located at the base of the landfill. Montauk processes the gas to meet the pipeline specifications of Duke Energy prior to entering its distribution system. The process is continuous thereby providing the Cincinnati area with a dependable, local source of renewable fuel. Bus tours of the Rumpke Sanitary Landfill will take visitors onto the landfill to see how two million tons of solid waste per year are processed, encapsulated and tapped for energy recovery. RSVP required, space is limited. Contact Sara Cullin at (513) 741-2617 or emailsara.cullin@rumpke.com. On tour day RSVP to Jonathan Kissell at (513) 200-3798.

**Directions:** From Greater Cincinnati: Take I-275 to exit #33/Colerain Ave. Go north on Colerain Ave. Turn right on Struble Rd. Turn left into the first entrance on Struble Rd. Park in the visitors parking lot to the right, where your tour guide will meet you. **Please wait for your guide in the parking area. A 24-seat Rumpke bus will take you on landfill tour.**

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**B. Murphy Residence**

8305 Beckett Ridge Drive  
West Chester 45069

Hours: Saturday, October 4<sup>th</sup>

Guided Tour: 11:30 AM - 12:15 PM

**Site Information:** The owner has accumulated 3 years worth of utility data for the home, showing reductions in usage corresponding to energy efficiency improvements, and use of renewables. He has monitored each appliance and device in the home and knows exactly how much energy each consumes. Not your average suburban home owner. The home has a high visibility PV array consisting of 24 Sharp ND-216U1F modules and an SMA SB5000US inverter. The 5148 Watt array was installed in March of 2008 and is estimated to produce 6000 kWh per year. The home is Energy Star rated and the Energy Rater will be on hand to answer questions about home energy audits.

**Directions:** From Rumpke Landfill: Head west on Struble Road toward US-27 (0.2 mi). Turn left at US-27 (0.6 mi). Merge onto I-275 via the ramp to Dayton/I-75 (2.5 mi). Take exit 43B to merge onto I-75 N toward Dayton (4.5 mi). Take exit 21 for Cin-Day Rd (0.3 mi). Turn right at Cincinnati Dayton Road (0.9 mi). Turn right at Lesourdsville West Chester Road (1.1 mi). Turn left at Beckett Ridge Blvd (.2 mi) Turn right on Beckett Station Drive (50ft).

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**C. Foote Residence**  
6963 Willowood Drive  
Cincinnati 45241

Hours: Saturday, October 4<sup>th</sup>  
Guided Tour: 12:30 – 1:15 PM

**Site Information:** The technology is a 6.7 kW PV system installed on the roof of a 2-story colonial design house. Dovetail Solar and Wind of Athens, OH installed the system in July 2008.. The estimated annual production is approx 8400 kWh. Owners’ motivation for doing this was financial, environmental, and political (energy policy). Hopefully the project shows how solar makes sense on an older traditional-design home, not just on new construction. Other energy efficiency improvements will also be shown and discussed.

**Directions:** From Murphy Residence: Left on Beckett Ridge Blvd (.2 mi) Turn right at Lesourdsville West Chester Road (1.1 mi). Turn right at Cincinnati Dayton Road (0.4 mi). Turn left at West Chester Road (1.4 mi). Turn right at Revere Run (0.1 mi). Turn right at Minuteman Way (0.5 mi). Turn left at Jerry Drive (253 feet). Turn right at Friar Tuck Drive (0.3 mi). Turn right at Willowood Drive (0.7 mi).

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**1:15 PM - Lunch – 30 minutes.** As Tour participants make their way back to I-275 via the route description below there are a number of eateries on Lebanon Road (state route 42).

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**D. Wilson Residence**  
2909 Ashton Drive  
Lebanon 45036

Hours: Saturday, October 4<sup>th</sup>  
Guided Tour: 2:15 – 3:00 PM

**Site Information:** The original motivation for this project was to provide shade for the deck; facing south, it got so hot in the summer it was almost unusable. Rather than use pressure treated lumber for the slats, the homeowner decided to incorporate another interest and make the slats solar panels. The original intent (shade) has been met; reducing the utility bill by 40-50% is an added bonus. This unique 3.7 kW PV array consists of 30 Sharp ND123-UJF PV modules and a PV Powered 3500 Inverter. The home is Energy Star rated and the Energy rate will be on hand to answer questions about home energy audits.

**Directions:** From Foote Residence: Head southeast on Willowood Drive toward Larchwood Drive (0.1 mi). Turn right at Larchwood Drive (0.1 mi). Turn right at Honeywood Drive (0.2 mi). Turn left at Pinewood Lane (459 ft). Turn left at Butterwood Drive (0.2 mi). Turn right at Sprucewood Lane (0.1 mi). Turn left at Windwood Drive (0.1 mi). Turn left at Windwood Drive (0.1 mi). Turn right at Columbus Cincinnati Road (361 ft). Continue on Lebanon Road (0.7 mi). Turn left to merge onto I-270 East toward I-71/Columbus (2.5 mi). Take exit 49 to merge onto I-71 North toward Columbus (15.6 mi). Take exit 32 for OH-123 toward Morrow/Lebanon (0.3 mi). Turn left at South OH-123 (0.7 mi). Turn right at South Liberty-Keuter Road (0.8 mi). SLIGHT jog right at Wilmington Road, then left on North Liberty-Keuter Road (0.3 mi). Turn right on Ashton Drive (0.4 mi).