



Green Homes Now!

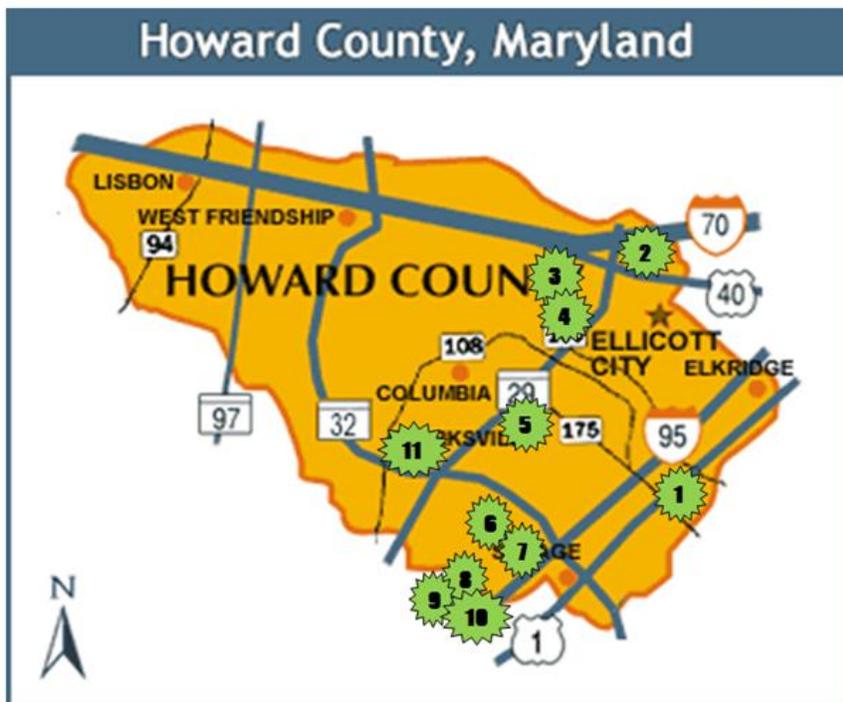


www.transitionhoco.org/committees/energy

Welcome to Howard County's 1st Green Homes Now! Tour. This brochure is your guide to the 11 homes and buildings that are on the 2012 tour. We hope you come away from the tour with information and ideas on how you can "green" your home and live more sustainably!

This event is sponsored by Transition Howard County (THC) and the Climate Change Initiative of Howard County (CCIHC). It is in conjunction with the 22nd Annual Metro Washington, DC Tour of Solar & Green Homes and the 3rd Annual Maryland Tour of Solar and Green Homes.

We suggest you plan your tour in advance to maximize the number of sites you will be able to see. The map below shows approximate locations of the homes and buildings that are on the tour. Descriptions of the green features of each are listed on the following pages. All homes will have a sunflower windsock (shown at right) to help you locate them.



IMPORTANT NOTE: All homes are open from 11am to 5pm on their designated day with one exception: the EnviroCenter (#1) is open both days but is only offering tours at 11am and 1:30pm. Please plan your visit accordingly.

Both Days

1. EnviroCenter, 7761 Waterloo Road, Jessup, MD 20794

NOTE: Tours at 11am and 1:30pm only!

The EnviroCenter is a green executive office building that is 50% more energy efficient than the typical office building. Design strategies such as SIPS panels, daylight shafts, suntubes, passive cooling, thermal mass, and fiber-optic lighting enable the building to operate at this level of efficiency. 100% of the electricity that is used comes from renewable sources: 6% is provided from an onsite photovoltaic system (2.25 kW) and the remainder is provided through a wind contract with Clean Currents. 100% of the building heating energy is from renewable sources: an onsite solar thermal array feeds the radiant floors and biofuel fuels the furnace. The EnviroCenter is 30% more water efficient than the typical office building. This efficiency is achieved through dual flush toilets, low-flow faucets and a waterless urinal. In addition, the EnviroCenter provides 100% of the water used for landscaping irrigation from collected rainwater: a 375-gallon capacity rain barrel system and a newly installed 1,200 gallon cistern. There is also a rain garden with circulating water features to assist in cleaning the exhaust pollutants from traffic on Waterloo Road (Rte. 175)



DIRECTIONS: *From I-95, exit at MD-175 East. Proceed about 2 miles and the EnviroCenter will be on your left.*

Saturday Homes

2. 2814 Montclair Drive, Ellicott City, MD

This 1950s ranch house has gone through a recent greenovation to add solar PV, a cupola, more south facing energy efficient windows, exterior insulation finishing system (EIFS), and insulation in the attic and walls. Other features include a solar hot water system, solar attic fan, solar daylight tubes, kitchen counter tops made from recycled glass, recycled floor tiles in the foyer and rec room, and an airlock front entryway. The greenovation of the yard has begun with the installation of a 2nd rain garden, the start of a food forest, and 2 rain barrels. There is also an aquaponics system in the basement.



DIRECTIONS: *29 North till it ends. Make a right at the light onto Rogers Ave. Go over the I-70 bridge. Make the first left after I-70 onto Church Lane Dr. Make a right onto Deerfield Drive. Make the first left onto Montclair Drive.*

3. 10276 Breconshire Road, Ellicott City, MD

This home features a 22 panel, roof-mounted, solar array. Also shown are solar-lighted walk way, kitchen and back yard composting, rain barrel and water saving applications..



DIRECTIONS: *From Rt. 29 North, take 108 West toward Clarksville. Turn right at stoplight onto Centennial Lane. Turn left onto Breconshire Drive.*

4. 10153 Maxine Street, Ellicott City, MD

20 solar panels total. Geothermal heat pump for heating and cooling. Replacement high efficient windows. Recent Energy Audit showed an air exchange rate of .35. Just .02 above an Energy Star

Rating. All outdoor equipment is electric such as lawn mower, snow blower, weed trimmer, chain saw, etc.



DIRECTIONS: *From I-95 north of the DC beltway, take exit 38B (Rt. 32) toward Columbia. From 32, take exit 16A (Rt. 29 north). From Rt. 29 take exit 21B (Rt. 108 west) toward Clarksville. Continue on 108, turn right onto Centennial Ln, and right on Maxine St.*

5. 6449 Browsing Deer, Columbia, MD

The yard is transitioning to ecosystem landscaping. No front lawn, rather Eastern deciduous forest in place of lawn. Many native MD plants bloom through the seasons in various parts of the yard. Plants were chosen to benefit pollinators, butterflies and birds. We can tell you about the benefits and trials of becoming a National Wildlife Federation Certified Backyard Wildlife Habitat.

DIRECTIONS: *From I-95, exit #38B, MD Rt 32 -west, 1.9 miles. Exit onto Broken Land Parkway, take the right fork on the exit ramp, go .7 miles. Turn right onto Cradlerock Way. Turn right onto Windharp. Please park along Windharp - Do NOT park on Browsing Deer. Browsing Deer is the first right.*



6. 10544 Patuxent Ridge Way, Laurel, MD

Ours is a 1986 contemporary which we have been gradually transforming into an low impact but extremely enjoyable home. We started with carefully protecting our trees, which, with extensive use of ceiling fans and directed ventilation, provide us with almost zero use of AC in the hottest summers. We have been working inside and out to make our house as sustainable as possible. Efficiency is one of the

highest priorities when appliances need replacing. All erosionprone lawn has been replace with carefully contoured (as well as beautiful) gardens. With the recent addition of PV, we are now close to net zero use of energy through most of the year.

DIRECTIONS: *From I-95, exit at MD-216 west/Scaggsville. At the first light, turn right onto Leishear Rd. At the T, turn left onto Gorman Rd. After .3 miles, turn right onto Patuxent Ridge Way. We are at the end of the road, in the cul de sac, and down a shared driveway.*

7. 10318 Champions Way, Laurel, MD

36 Suntech 175 watt solar panels with inverter and monitoring system. Estimated to produce 7,842 kWh per year based on PV watts. Solar panels are installed on the roof with inverter and monitoring systems installed in the lower level.

DIRECTIONS: *I-95 to Exit 35B. Exit 35B is 216W. Take 216W to the first light and make a right onto Leishear Ave. Take Leishear Ave to Gorman Rd. Make a right onto Gorman road. And then look for Hunter Creek on the left. Make the left onto Derby Drive.*



8. 6103 Goodman Rd, Laurel, MD

Owner has driven electric vehicles since 1999. Current ride is a Toyota RAV4 EV - one of 328 in private hands in the world, 4 on the east coast. 6.4 kW solar system installed by Astrum Solar with Microinverters. Generator tap-in panel installed. USA Insulation has injected the walls with expanding foam insulation.



DIRECTIONS: *Home is northwest of I-95 and Hwy 198. Exit I-95 on 198, go west towards Burtonsville, pass through two signals, turn right on Riding Stable Road. Go 1/2 mile, right on Jerald. At stop sign, Left onto Kent. Right one block later on Goodman.*

9. 5809 Holger Court, Laurel, MD

5.8 kW solar PV provides two-thirds of the electricity used and some days, producing more than we use. Home features energy saving LG washing machine, CFL lighting and water saving shower heads. Air sealing and super insulation in the attic. Electric vehicles include a 144-volt Ford Escort, 2008 Prius, electric dragster, electric scooters and electric bikes. Lawn maintenance includes an irrigation system, General Electric Elec-Track garden tractor and an electric RoboMower. Composting bin for kitchen scraps and leaves.



DIRECTIONS: Take I-95 to Exit 33B to 198 West towards Burtonsville. At the second light make a right onto Bond Mill Road. Take an immediate left onto Clayburn Drive. Make a right on Holger Court. Fifth house down on the right at 5809.



10. 5804 Holger Court, Laurel, MD

Solar panels are installed on the front roof of the house.

DIRECTIONS: Take Exit 33B off of I-95, west towards Burtonsville. Turn left onto Bond Mill Road and then take the next left onto Clayburn drive. Take the second left onto Holger Ct and see the second house on the left.

Sunday Homes

11. 6309 Morning Time Lane, Columbia, MD

We have 16 Schuco 185 W modules on 2 circuits with Enphase microinverters that have produced 3.88 mWh over the last year. Additionally we have a solar attic fan and a tankless water heater. Combined with the energy efficient appliances, practices and devices, the electric portion of our last energy bill was a breathtaking \$12.10!

DIRECTIONS: From I-95 take Rt. 32 West to exit 19 - Great Star Drive. Turn left at the top of the ramp onto Great Star. Take next left onto Eastern Star and take an immediate left onto Morning Time Lane.



About Our Sponsors



Transition Howard County (THC) is part of the international transition movement that is focused on making communities more resilient. Communities that are socially, environmentally, and economically sustainable are better equipped to face the challenges of peak oil and climate change

THC Vision: Sustainable communities in Howard County that embrace localization and ethical stewardship of the environment.

THC Mission: Foster resilient and engaged communities by: raising awareness of climate change, declining resources and the need to adapt to future challenges; focusing on the use of local resources; promoting the crucial importance of a biodiverse ecosystem; encouraging lifelong learning; and collaborating with community organizations and government.

THC has committees working on many aspects of sustainability: energy, water, health, eco-landscaping, food, economy, knowledge, and more.

www.transitionhoco.org



The Climate Change Initiative of Howard County (CCIHC) is a grassroots organization working to inspire and mobilize the people of Howard County to create a more sustainable community in the face of our planet's climate crisis. CCIHC focuses on educating and motivating personal and community action through discussion circles. In these small groups, we start conversations that lead to change. Discussion circle topics include Global Warming: Changing CO₂urser, Resilience Circles, Choices for Sustainable Living, Voluntary Simplicity, Menu for the Future, Hungry for Change and World of Health.

CCIHC also works changing public policy and advocating for a healthy planet and new economy. We testify about state, local and national legislation and have helped organize actions designed to raise awareness and change policy. We participate in wind power advocacy and rallies at the Maryland State House; organize local events on international days of climate action; and participate in protests against dirty fossil fuels that are destroying the environment such as the Keystone XL Pipeline and fracking.

CCIHC partners with other organizations such as the Howard County Legacy Leadership on the Environment (HoLLIE) and the Howard County Earth Forum.

www.hococlimatechange.org