



Zero Energy House

The Zero Energy House at Clover Park Technical College showcases green building practices, demonstrates building science concepts and a commitment to “conservation before generation,” and serves as a hands-on laboratory for students in the Sustainable Building Science program. Students will receive blower door, duct blaster, combustion appliance safety, and other current training that is required of industry professionals. Community members may visit the Zero Energy House to learn about green building practices and healthy living environments.

Using the “build tight, ventilate right” philosophy of building, features include advanced framing techniques, renewable energies, photovoltaics electricity generation, solar hot water heating, and hydronic radiant floor heating. South facing glass and specific orientation provide passive heating qualities, while natural ventilation is the primary source of air conditioning. The vaulted ceiling over the great room features a south facing clearstory wall with operable awning windows that provide natural day light and take advantage of prevailing winds for passive air movement. Energy production and consumption will be tracked to verify that the house is in fact achieving zero energy consumption.

Campus Partners—the Automotive Restoration program is restoring a golf cart, which will be recharged by the house’s PV system and used jointly to promote the use of ERVs. Other on campus partners include the Architectural Engineering Design, Interior Design, and Landscape Management programs

Giving Opportunities—This wonderful project benefits students and the community, raising awareness for green building and healthy living environments, but cannot be completed without help. Sponsors will be recognized with an engraved piece of hand railing on the deck or handicap ramp and/or a digital image of their company logo on the web site. Please see the information to the right for ways to contribute.

Read more and see pictures as the house is built at www.cptc.edu/zero.

Giving Opportunities

Sponsors may make charitable in-kind or monetary gifts through the CPTC Foundation, a 501(c)3.

In-kind Contributions may include:

Exterior

- Paint
- Top soil
- Plants
- Handicap ramp with railing
- Weather station
- Batts for rain screen

Interior

- Floor coverings
- Paint
- Countertops
- Plumbing supply and drain
- Plumbing fixtures
- Tubing for radiant heat floor
- Furniture
- Retractable screen for presentations
- Tub and shower enclosure
- Projector for presentations
- Appliances
- Completion of solar water system
- Window coverings
- Monitoring systems

Contact Heather Ervin at 253-589-5732 or heather.ervin@cptc.edu to find out how to make a donation.

Find out more!

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www.cptc.edu