

Purdue Solar House

A Partnership with Purdue University to Construct a Model Net-Zero Energy Home in Delphi

PURDUE UNIVERSITY

IN HOME

This building was the Purdue University entry into the U.S. Department of Energy's Solar Decathlon competition.



Project Description

PROJECT VISION

Purdue University is interested in partnering with Delphi to design and construct a model high efficiency home in one of the historic Delphi neighborhoods targeted for revitalization. The goal is for the project to be planned and constructed by the same team responsible for Purdue's Solar Decathlon projects.

This strategic investment in Delphi's historic neighborhoods will generate interest and enthusiasm in near downtown housing, and provide a very visible signal that the City is serious about encouraging redevelopment of these areas.

In terms of sustainability, the project will demonstrate that highly efficient homes can be built and developed in a manner that blends seamlessly into a historic neighborhood district. The design will feature a traditional appearance, but with cutting edge technology to achieve a net-zero energy goal. Additionally, the project will include practical green solutions that could be implemented in most any Delphi residence.

PROJECT READINESS

The City is committed to take on this project as part of the Stellar Communities initiative. Purdue University is interested in participating, and has provided a letter of interest in the project. Alternative lots have been identified for the project, including sites that are owned by the city or could be acquired. Planning for the project can begin immediately upon Stellar Award.

PROJECT BUDGET

\$300,000

PROJECT SCHEDULE

2012: Site selection, acquisition (if necessary) and design
2013: Construction
2014: Construction



SOLAR DECATHALON TEAM

The goal is for Purdue's Solar Decathlon Team to lead Delphi's Solar House Project.



SOLAR HOUSE PROJECT

The home will revitalize the neighborhood while educating the public on green technologies.

LOCATION MAP



DELPHI
STORIED PAST... STELLAR FUTURE



HWC
ENGINEERING



synthesis
ARCHITECTURAL DESIGN
SOLUTIONS