

# ZERO ENERGY

## Manufactured Home

The Bonneville Power Administration's (BPA) Zero Energy Manufactured Home demonstrates and promotes innovative energy saving technologies to the HUD Code manufactured housing industry and homebuyers. BPA partners include the Nez Perce Tribe, Washington State University Cooperative Extension Energy Program, the U.S. Department of Energy's Building America Industrialized Housing Partnership, and Portland General Electric's Earth Advantage™ program.

### Project Goal

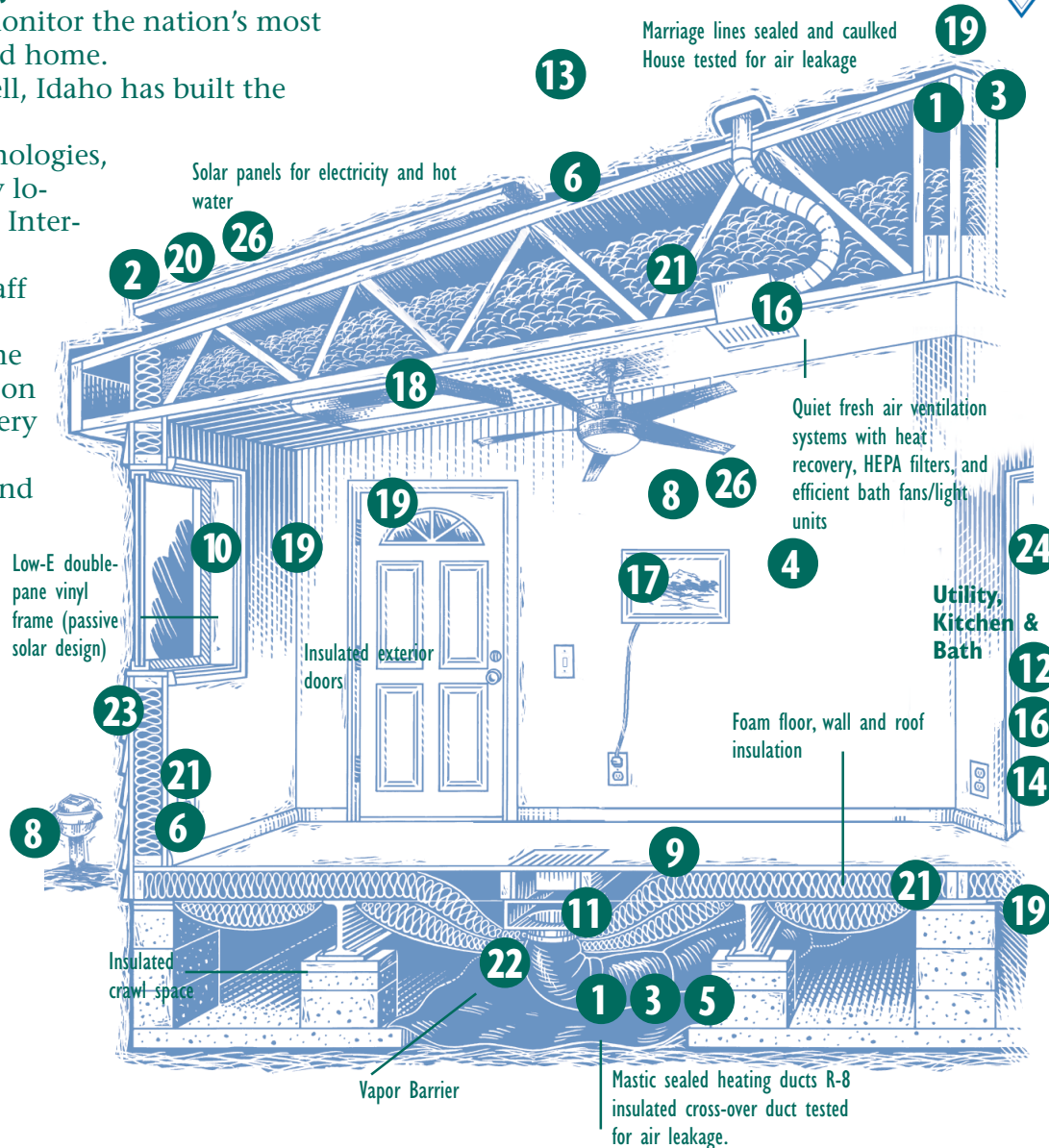
To build, demonstrate and monitor the nation's most energy efficient manufactured home. Kit Manufacturing of Caldwell, Idaho has built the Zero Energy Manufactured Home.

To promote the home's technologies, the home will be temporarily located at the Spokane County Interstate Fair from

September 6-15. Certified staff from Clearwater Homes of Orofino, Idaho, will install the home at its permanent location at the Nez Perce Tribal hatchery in Cherry Lane, Idaho.

The home is built, certified and installed to Super Good Cents, Energy Star and Earth Advantage™ standards. During construction and installation, staff from the WSU Energy Program are providing energy expertise and technical support to the manufacturer, installers and other industry partners.

More information online at [www.bpa.gov/Energy/N/energy\\_tips/zemh/](http://www.bpa.gov/Energy/N/energy_tips/zemh/)



### For more information

Michael Lubliner  
 Washington State University  
 Cooperative Extension Energy Program  
 925 Plum St SE  
 Olympia, WA 98504  
 306-956-2082  
 email: [lublinterm@energy.wsu.edu](mailto:lublinterm@energy.wsu.edu)  
[www.bpa.gov/Energy/N/energy\\_tips/zemh/](http://www.bpa.gov/Energy/N/energy_tips/zemh/)  
 Bonneville Power Administration  
[www.bpa.gov](http://www.bpa.gov)

Earth Advantage™  
[www.earthadvantage.com](http://www.earthadvantage.com)  
 Washington State University  
 Cooperative Extension Energy Program  
[www.energy.wsu.edu](http://www.energy.wsu.edu)  
 Nez Perce Tribe  
[www.nezperce.org](http://www.nezperce.org)  
 U.S. Department of Energy's Building America Industrialized Housing Partnership  
[www.fsec.ucf.edu/bldg/baihp/](http://www.fsec.ucf.edu/bldg/baihp/)

### Special Thanks to:

Clearwater Homes - L. Skinner  
 Controlled Environments - R. Nicklas  
 Eagle Energy Systems, L.L.C. - W. Wilson  
 Earth Advantage™ - R. Hansell  
 ECOS Consulting - P. Williamson  
 Electrical Sales Associates - B. Rady  
 Florida Solar Energy Center - S. Chandra, D. Parker  
 King of Fans - C. Booker  
 KIT Manufacturing Staff  
 ID. Dept. of Water Resources - K. Eklund, B. Minter  
 ID. Division of Building Safety - T. Rogers  
 Mariah Collaborative Art Center - D. Gaile  
 McGee Enterprises L.L.C. - G. McGee  
 Nez Perce Tribe - G. Walker, H. Hardy  
 Northwest Power Planning Council - T. Eckman

OR. Office of Energy - T. Hewes, B. Peeks  
 PECI - S. Cofer  
 U.S. Department of Energy - G. James  
 U.S. Department of Housing and Urban Development - W. Freeborne  
 U.S. Environmental Protection Agency - S. Rashkin  
 Valley Manufactured Housing Inc. - D. Berger  
 WA. Dept of Housing and Community Development - T. Ramsauer  
 WA. Department of Labor and Industries - D. Sevick  
 WA. Manufactured Housing Association - J. Brown  
 WA. State Extension Program Spokane - J. Lindstrom  
 WA. State University Cooperative Extension Energy Program - Staff



# Innovative Technology Sponsors

- 1** **Blower Door™ and Duct Blaster™ Testing**  
The Energy Conservatory [www.energyconservatory.com](http://www.energyconservatory.com)
- 2** **BP Solar® Photovoltaic Panels**  
BP Solar [www.bpsolar.com](http://www.bpsolar.com)
- 3** **Environmental Products and Training**  
Controlled Environments Inc. [randy@controlled-environment.com](mailto:randy@controlled-environment.com)
- 4** **Enerjoy Radiant Heat Module™**  
SSHC, Inc. [www.sshcinc.com](http://www.sshcinc.com)
- 5** **Engineering/HUD-DAPIA**  
Radco [www.RADCOINC.com](http://www.RADCOINC.com)
- 6** **Fabral Metal Wall & Roof Systems**  
Fabral Inc. [www.fabral.com](http://www.fabral.com)
- 7** **Hampton Bay Gossamer Series® Ceiling Fan/Light**
- 8** **Hampton Bay Solar Landscape Lighting**  
HomeDepot [www.homedepot.com](http://www.homedepot.com)
- 9** **Insider Heat Pump**  
Friedrich Air Conditioning Company [www.friedrich.com](http://www.friedrich.com)
- 10** **KINRO Energy Star Windows**  
Kinro [www.kinro.com](http://www.kinro.com)
- 11** **LaSalle Metal Duct Risers and Duct Mastic**  
LaSalle Bristol [www.lasallebristol.com](http://www.lasallebristol.com)
- 12** **Maytag Energy Star Appliance**  
Maytag [www.maytag.com](http://www.maytag.com)
- 13** **Northwest Pride Industry Relations**  
Northwest Pride [www.nwpride.org](http://www.nwpride.org)



- 14** **NW Energy Star Residential Appliance Program**
- 15** **NW Energy Star Residential Lighting Program**  
Northwest Energy Efficiency Alliance [www.nwalliance.org](http://www.nwalliance.org)
- 16** **Panasonic® WhisperLite™ Bath Fans**  
Panasonic [www.panasonic.com/building](http://www.panasonic.com/building)
- 17** **Plate Pals™ Switch Plate Thermometers**  
I.C. Innovations Inc. [www.platepals.com](http://www.platepals.com)
- 18** **Progress Energy Star Lighting Fixtures**  
Progress Lighting [www.progresslighting.com](http://www.progresslighting.com)
- 19** **SOFROD® /SOFCHINK® / Noma® Seal Foam Gaskets**  
Nomaco [www.nomaco.com](http://www.nomaco.com)
- 20** **SunEarth® Solar Hot Water**  
SunEarth [www.sunearthinc.com](http://www.sunearthinc.com)
- 21** **The Icynene Insulation System®**  
Icynene Inc. [www.icynene.com](http://www.icynene.com)
- 22** **Thermaflex Flex Elbow & R8 Crossover Duct**  
Flexible Technologies [www.wereflexible.com](http://www.wereflexible.com)
- 23** **Tyvek® HomeWrap™ and Flashing System**  
Dupont [www.tyvekconstruction.com](http://www.tyvekconstruction.com)
- 24** **Venmar® Heat Recovery/HEPA Filtration**  
Venmar [www.venmar-ventilation.com](http://www.venmar-ventilation.com)
- 25** **Vari-Vent Solar Ceiling Fan**  
RCH Fanworks [www.fanworks.com](http://www.fanworks.com)
- 26** **WesternSun The Solar Co-op™**  
WesternSun [www.westernsun.org](http://www.westernsun.org)



©Copyright 2002 E.I. du Pont de Nemours and Company. Tyvek® is a registered trademark of DuPont for its brand of protective material. All rights reserved.

Innovative air solutions

