

# Water

You are here: [Home](#) > [Systems](#) > Water

**Earthships catch water from the sky (rain & snow melt) and use it four times.** Water is heated from the sun, biodiesel and/or natural gas. Earthships can have city water as backup. Earthships do not pollute underground water aquifers. Water is caught from a roof with a potable surface. From the roof, the water is channeled through silt catches into cisterns. Cisterns are sized to the local climate and are best buried and completely protected from the sun. The water from the cistern is gravity-fed into a Water Organizing Module with a pump and filter. The pump pushes the water into a pressure tank to supply code required water pressure. The filters clean the water for consumption and cleaning.

In an Earthship, water is heated by the sun and natural gas. The sun heats the water, and the natural gas water-heater only turns on if the water is not hot enough. This is called "gas-on-demand" water heating.

## Water Organizing Module (WOM)

Water from the city, cistern, your well, etc. can all be hooked up to the WOM. Automated systems can manage your water levels. So that the rest of the house has regular plumbing, the WOM, filters clean the water for human consumption and use.

The WOM is part of our retrofit package for your existing home, they are not only fit for Earthship use. If you are interested in finding out more, please contact us at [biotecture@earthship.com](mailto:biotecture@earthship.com).

## Hot Water Recirculation Panel

## Simple Survival Earthship App



## Earthship Mailing Li

Email \*



## Latest Blog Posts

- > E.V.E. Chronicles – March 10, 2017
- > E.V.E. Chronicles
- > Taller E.V.E. – Colombia Mayo 2017
- > E.V.E. Chronicles – March 9, 2017
- > Concept Behind E.V.E.

The hot water recirculation system is a water saving set-up designed so when you turn a timer switch at a fixture the water that has cooled in the hot water lines is returned to the cisterns while replacing it with hot water.

In order for the hot water system to work, the plumbing for it must be done during the rough-in as well as the electrical. This is shown on the construction drawings available from Earthship Biotecture. The kit includes the hot water recirculation panel and required number of timer switches for your home.

For more information on the hot water recirculation panel, please contact us at [biotecture@earthship.com](mailto:biotecture@earthship.com).

- > E.V.E. Workshop – Colombia May 2017
- > Earthship Model Kit Fundraiser – Eric Ficinus’ Independent Study
- > Simple Ways to Reduce Waste at Home
- > Michael Reynolds addresses the Flint, MI water crisis

## Authors

Michael Reynolds

## About Earthship Biotecture

Earthship Biotecture is based in Taos, New Mexico, and has been providing humans with the tools necessary to sustain themselves and the planet for over 45 years. By using **carbon-zero technology in building plans** and integrating all systems with **food production**, our designs are the first truly sustainable, independent models on the market today. We able to construct **comfortable units in any climate** made primarily out of natural and recycled materials.

Earthship **construction drawings** are designed to meet standard building code requirements so you can get a permit no matter where you are. **Earthship Biotecture is beyond LEED Architecture. Earthships are green buildings that meet standard building codes.** EarthshipBiotecture is based on the work of principal architect, **Michael Reynolds**. (see: media resume)

[Earthships on Facebook](#) | [Earthships on Twitter](#) | [Earthships on LinkedIn](#) | [Earthships on YouTube](#) | [Earthships on Pinterest](#)

## RSS Feed