

# Geothermal Water Heating

*Save up to 75% of your water heating bill*



commercial systems

## Up to 40% of Your Overall Energy Bill Can Be for Heating Water

Few organizations are aware of their cost to heat water because there is rarely a separate utility meter for water heating. In multi-family and lodging facilities, healthcare, laundries, and food processing plants it often costs up to 40% of the energy budget. Other institutional, commercial and industrial users spend 20 to 30% of their total energy bill to heat water.

## Geothermal Hot Water Systems by EarthLinked®

The U.S. EPA has verified 75% electrical savings with EarthLinked® Water Heating compared to electric resistance water heating. Large users of hot water can achieve significant cost savings and reduce their emissions.

## Return-on-Investment

30-40% Return-On-Investment is common with an EarthLinked system, which is better than any other energy saving investment you can make.

## Payback

Within 3 to 5 years on average with a geothermal water heating system by EarthLinked—sometimes faster, due to the higher cost of the fuel being displaced or lower than average installation costs.

**Total cost over a 15-year period when heating an average of 2,500 gallons of water per day.** *(Using the Washington, DC area for an example, and the past 5-year average cost of natural gas.)*



## Lower Your Emissions

EPA testing also verifies that a single 6-ton EarthLinked unit can save up to 42,600 lbs. of CO<sub>2</sub> and 90 lbs. of NO<sub>x</sub> emissions each year, the equivalent of displacing 3,630 gallons of gasoline or 74 barrels of oil annually.

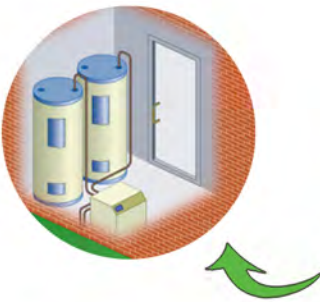
## LEED Certification

EarthLinked geothermal hot water systems can contribute to LEED green-building certification and earn Carbon Credits or Renewable Energy Credits.

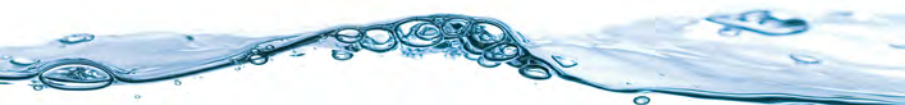


## Simpler, Smaller, More Efficient

With its proprietary Adaptiv™ refrigerant flow controls, EarthLinked functions without the need for an intermediate water circulating system in the earth to transfer heat and is thus simpler, smaller and more efficient than other geothermal heat pumps.



EarthLinked® Water Heating system with diagonal earth loop configuration.



## EarthLinked Technologies Has ...

- ✔ 30 years' experience developing energy-saving technology
- ✔ 4,000 installations of geothermal heat pump systems for space heating and cooling, with optional water heating
- ✔ Systems operating in 50 states and 15 countries
- ✔ Installations designed to last over 20 years
- ✔ Warranty: 5 years on heat pump, 20 years on earth loops
- ✔ USGBC LEED-certified manufacturing and office building

EarthLinked water heating is saving energy, emissions and costs in healthcare facilities, apartments, condominiums, food service, and public housing.

## Success Stories in New York and New Jersey

Franklin Towers, an 81-unit multi-family building in Tarrytown, New York, installed two EarthLinked systems to pre-heat 1,300 gallons of water to 115°F daily and reduce the cost of heating water with oil-fired boilers. **Monthly savings in the next 24 months averaged 68%.**

After visiting that installation, Kimberly Woodhull, the Executive Director of the Newton, New Jersey Housing Authority, decided to install an EarthLinked system in Liberty Towers, an 80-unit senior living residence.

In two years, the system saved \$32,000 and the Housing Authority received an Award of Merit from the National Association of Public Housing and Redevelopment Officials for its innovative energy saving solution.



***“We used to normally pay between \$2,500 and \$3,000 per month on oil bills for water heating ... that’s gone now.”***

*—Kimberly Woodhull, Executive Director*



## Affordable Sustainability

Most water heating systems now in use are based on inefficient 100-year-old heat sources using gas, oil or electricity generated by burning fossil fuel. Natural gas, propane, oil and electric resistance water heating systems are major contributors to Pollution, Greenhouse Gas emissions, and Climate Change. The earth acts as a giant solar collector and storage battery to capture about half of the solar energy that reaches its surface daily in the form of heat.

Up to 75% of the heat delivered by EarthLinked is renewable solar energy from the Earth so it can reduce fossil fuel consumption anywhere, anytime, even in Alaska.

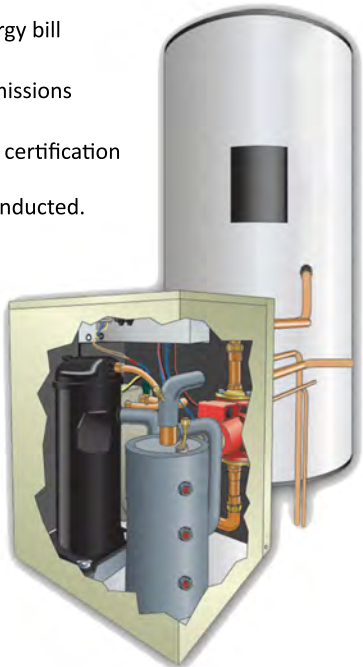
By cutting fossil fuel dependency, costs and emissions from water heating, EarthLinked can differentiate you as a progressive institution among all of your stakeholders and competitors. In the past, transitioning to clean energy involved additional expense. Not anymore. With EarthLinked® Water Heating, you can reduce your energy bills and your environmental impact at the same time.

## Our Technology, Your Savings

We will be pleased to conduct a Feasibility Assessment to to:

- ✔ Calculate the savings on your energy bill
- ✔ Calculate the reduction in your emissions
- ✔ Support your application for LEED certification

If appropriate, a site visit can also be conducted.





  
**EARTHLINKED**  
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