

**POWER-PIPE** *Drain Water Heat Recovery Systems*

*Energy-Saving  
Solutions for  
Residential,  
Commercial  
and Industrial  
Applications*

***RenewABILITY***  
***ENERGY, INC.***

*[www.renewability.com](http://www.renewability.com)*

# POWER-PIPE

is a passive water heater that recycles thermal energy, recovering heat from drain water that would otherwise be lost.

***The Power-Pipe® has no moving parts and will typically last 50 or more years.***

## ***How It Works***

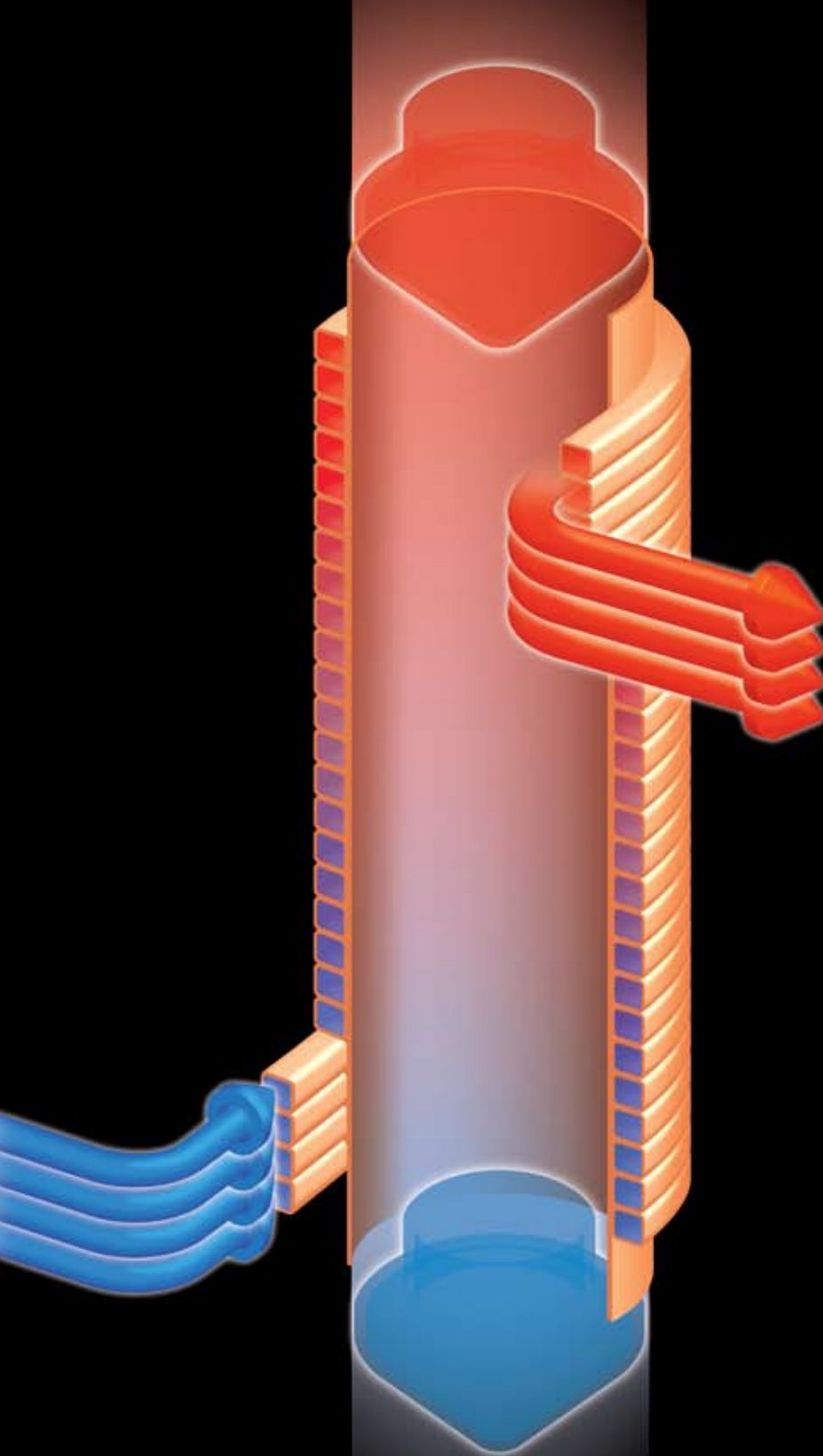
*The patented and patent pending Power-Pipe® design incorporates multiple copper coils helically wrapped around an inner copper drainpipe. As warm to hot drain water flows down the drain pipe, its heat is readily transferred to incoming colder freshwater which is flowing up through the coils.*

*In a home the typical 60 inch (1.5 meters) Power-Pipe® unit can bring your cold water temperature up from 10 degrees C (50F) to as much as 25 degrees C (77F), under equal flow conditions so the water heater does not work as hard.*

*The result is that it takes up to 70% less energy to heat water.*

*Other benefits include a substantial increase in effective hot water capacity and reduced greenhouse gas emissions.*

*The Power-Pipe® drain water heat recovery system is a safe, cost-effective, reliable and maintenance-free energy saving solution.*



# **The Market Leader in Drain Water Heat Recovery**

**Drain water is one of the largest and most overlooked energy resources — every year over \$25 billion dollars of valuable heat energy is wasted down the drain in North America alone.**



*Founded in 2000, RenewABILITY Energy, Inc. (REI) is a leading international energy technology innovator for residential, multi-unit residential, institutional, commercial and industrial applications.*

*The talents and expertise of the RenewABILITY Energy team are focused on the challenges of*

*developing energy saving devices. This focus led to the design, manufacturing and sales of the patented and patent pending Power-Pipe® drain water heat recovery system.*

*The Power-Pipe® system harnesses the energy of warm drain water to heat cold freshwater, delivering water heating cost savings of up to 70% achieving total pay back in as little as four months.*

## **Independently Tested, Proven Performance**

- *The Power-Pipe® assists builders in achieving certification for EnergyStar for New Homes.*
- *UL approved for potable water in the US and Canada.*
- *Power-Pipe® can be a substantial source of energy saving credits for LEED certification.*
- *Qualifies for federal, state, provincial and utility company incentives in the US and Canada, eg. Canadian ecoENERGY Program*
- *Independent testing by the Canadian Government's Ministry of Natural Resources Canada (NRCan) has proven Power-Pipe® is technically superior to any other drain water heat recovery system.*

## **Delivering Energy and Cost Saving Solutions**

*As the cost and competition for energy increases and changes in global weather have focused attention on the harmful effects of greenhouse gas emissions, consumers and businesses are actively seeking ways to reduce energy dependence.*

*The Power-Pipe® addresses these concerns and is proving to be a reliable, maintenance-free system that is saving money and improving bottom lines around the world.*

*The Power-Pipe® is also a great tool that can be used to assist designers & developers in achieving certification in many green programs such as LEED and Energy Star for New Homes.*

# **Untapped Markets Present Tremendous Profit Potential**

*Water heating accounts for 20% to 30% of energy costs in most North American homes, ranking second only to space heating.*



## **Single-Homes: 9.6 Million Water Heaters a Year**

*The single-residential market segment represents the largest opportunity for Power-Pipe® sales. Installing a new water heater presents a good opportunity to consider buying a Power-Pipe®. The more than 9.6 million water heaters installed each year in the United States and Canada show the potential of the market.*

*The Power-Pipe® can be installed before any type of water heater by a do-it-yourselfer (DIY) or local*

*plumber, usually in less than two hours. The total installed cost is typically from \$600 to \$1,100, depending on the unit purchased.*

*A conservative estimate of the share of market that the Power-Pipe® can attain in penetrating the residential channel is 3.4 units per hundred new water heaters sold. This alone represents potential annual revenue of more than 100 million dollars.*

## **Power-Pipe® Is Rapidly Gaining Market Acceptance & Distribution**

*Home Depot, one of North America's largest retailers of home improvement and building materials offers the Power-Pipe® through their Canadian website.*

*At RONA, Canada's largest home center chain, the Power-Pipe® is available for do-it-yourselfers, while the large retailer, Sears, now sells the Power-Pipe® as an installed system throughout Canada.*

*The Power-Pipe's ability to recycle thermal energy has*

*gained approval and acceptance in a variety of applications including water heating equipment rental providers, like Reliance Home Comfort and Direct Energy.*

*Also programs such as EnergyStar for New Homes, the nationwide Canadian ecoEnergy program, LEED, and several utilities including Minnesota Power, Union Gas, and Vermont Gas, all provide either incentives and/or program credits.*

# **Power-Pipe® Delivers Immediate Energy Savings — and Fast Payback in Many Markets...**

## **Multi-Unit Residential Buildings**

*In multi-unit residential buildings, water heating accounts for 25% to 35% of total energy costs. Here the payback period is typically 3-5 years in new construction, but can even be much shorter.*

## **Commercial Market**

*The commercial market includes hotels, restaurants, universities, secondary schools, laundries, car washes, health clubs and hospitals.*

## **Industrial Market**

*Many industrial processes have substantial water heating energy loads and also waste a substantial amount of energy in the form of warm effluent drain water. These industries include pulp and paper mills, food processing, beverage production, textile mills, and tar sand processing.*

*The Power-Pipe® is typically integrated into the manufacturing process harnessing the energy in the warm drain water and reducing the cost of heating water and other fluids by 50% to 70%.*

*As industries operate for a large portion of the day the energy savings delivered by the Power-Pipe® can be substantial and typical payback for the system ranges from 4 to 24 months.*

*Our Power-Pipe® systems excel in handling essentially any effluent, no matter how dirty or littered with hard solids. Power-Pipe® systems can also be coated for protection against corrosive drain water flows found in some industrial processes, and they can be inspected during operation. In comparison with other types of heat exchangers, only Power-Pipe® systems provide continuous, maintenance-free, high performance for almost any industrial process.*



**Practically every organization that uses hot water can benefit from the Power-Pipe®**

**Here is a short list of our key customers, housing developments and partners.**

- SEARS CANADA
- UNION ENERGY (RELIANCE HOME COMFORT)
- DIRECT ENERGY
- UNILEVER LIPTON
- RONA BUILDING CENTRES
- HOME DEPOT.CA
- REID'S HERITAGE HOMES
- BENNY FARMS
- CANADA DEPARTMENT OF NATIONAL DEFENSE
- CEDAR CORNERS HOTEL
- COOP D'HABITATION VILLAGE CLOVERDALE
- DALHOUSIE UNIVERSITY
- EASTERN OREGON UNIVERSITY
- GOLD EAGLE LODGE
- LBHA BEDFORD, ENGLAND
- MADLEY PARK, OXFORD ENGLAND
- MAISON TRANSITIONELLE
- MATTAMY HOMES
- MONTREAL HOUSING AUTHORITY (OMHM)
- PETERBOROUGH WELLNESS CENTRE
- SHUTTER CREEK CORRECTIONAL FACILITY
- UNIVERSITY OF OREGON
- UNIVERSITY OF TORONTO
- THE WORKING CENTRE
- YEE KANG CENTRE
- AFFORDABLE HOUSING DORVAL
- CEGEP DE SHERBROOKE
- VILLE DE MONTREAL
- ETS STUDENT RESIDENCES
- LES HABITATIONS SAINT-MAXIME
- COOP TERRASSE-SOLEIL
- THOMASFIELD HOMES
- EMPIRE COMMUNITIES
- .... AND MANY, MANY MORE



**RenewABILITY**  
ENERGY, INC.

## **Developing State-of-the Art Energy Saving Technologies In Response To Rapidly Escalating Energy Costs**

**RenewABILITY Energy** is committed to the development, manufacture and distribution of energy saving technologies to help reduce the world's dependence on primary energy resources while providing our customers an excellent return on investment.

Globally, the heat in drain water is a multi-billion dollar untapped energy resource. With many successful installations and a wide variety of applications the Power-Pipe® has propelled RenewABILITY Energy to distinction as the industry leader in drain water heat recovery.

In fact, numerous federal, provincial and state governments, as well as third party organizations consider RenewABILITY Energy and its management as the recognized world leader in Drain Water Heat Recovery.

To learn more about RenewABILITY Energy and its products and capabilities contact [walter@renewability.com](mailto:walter@renewability.com), call us at 1-877-606-5559 or visit our website [www.renewability.com](http://www.renewability.com).

We are establishing a Dealer/Distributor network across North America and regional Distributor/Partners around the world. If you think that your organization would be suited please contact us.

*EcoHome Magazine* recently selected the Power-Pipe® as a 2009 Editors' Choice Award winner



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