

DUBLIN DISTRICT HEATING SYSTEM

BE PART OF IT



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- ◆ District heating is coming to Dublin and you have the opportunity to be part of the **Dublin District Heating System**.

Opportunity for Cost Effective Heating

This brochure will outline what district heating is, how it works and why it can strongly benefit your company. The infrastructure which will be installed by Dublin City Council will largely be driven by demand, so there is an opportunity at this point for businesses and other residents to influence whether or not the District Heating piping will serve their street and building.

We invite you to sign an expression of interest in the Dublin district heating system which will help ensure that the system provided is close to your building.

What is district heating?

District heating systems use waste heat and distribute it through super-insulated pipes to the end user. This makes district heating a convenient and sustainable way of heating buildings and water.

How is district heating different to my current heating system?

Unlike traditional heating systems which use boilers to burn oil or gas on site to produce heat, district heating systems distribute heat in its ready-to-use form. A heat exchanger will be installed in your building, which connects to the city's District Heating network to serve your own radiator and hot water taps.

The Dublin District Heating system will be based on current best practice in other Northern European countries.

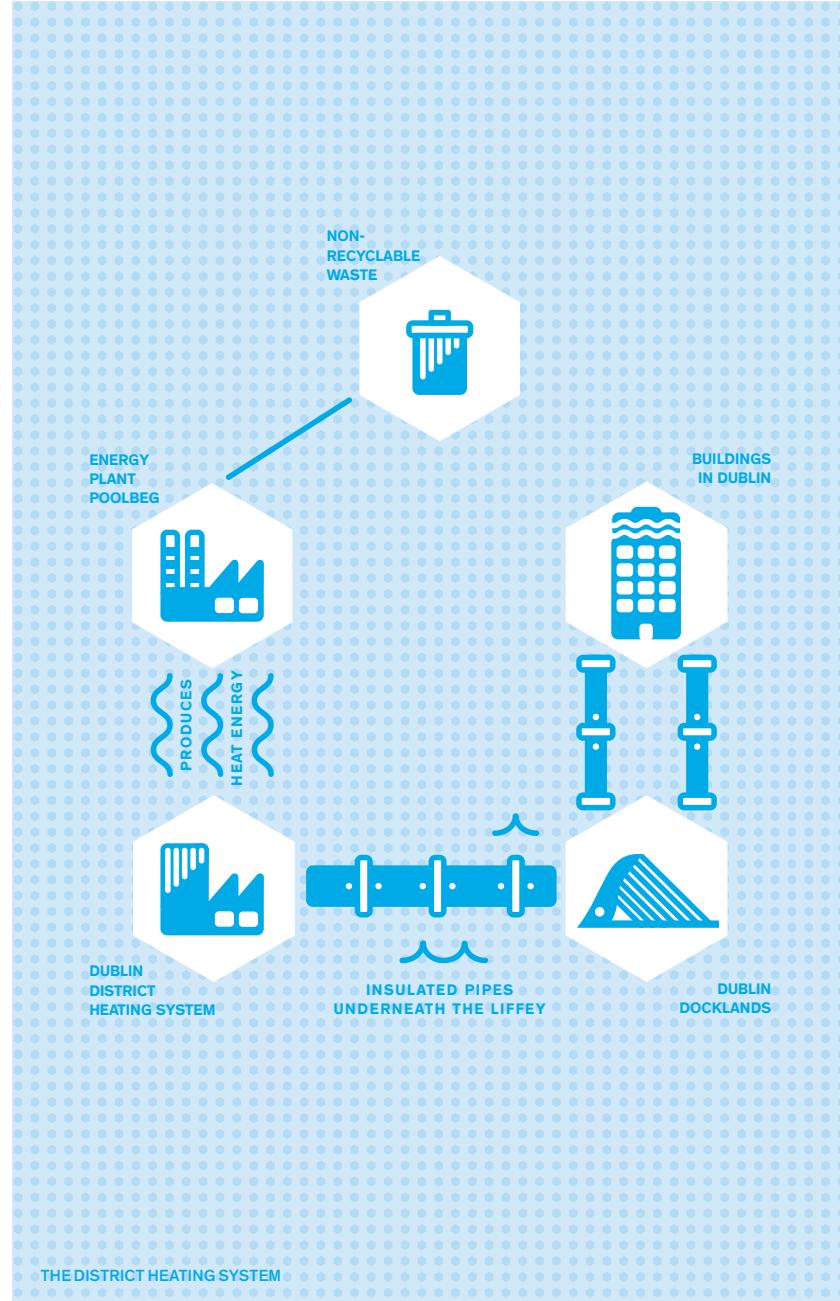
It will be highly efficient and designed to give individual customers full control of their heating and good value for money for the heat they use.

How does district heating work?

Waste that can't be recycled and would otherwise go to landfill is brought to the waste to energy plant at Poolbeg, where it is heat treated. During this process lots of heat is produced as a by-product.

The district heating system will use this heat by bringing it to businesses in the Docklands through super-insulated pipes. These pipes will go through a tunnel under the Liffey so they can serve both the north and south sides of the city.

Each building which uses this heat will have a heat exchanger installed which allows hot water in the city's system to heat the individual building's own heating system. Water which comes from Poolbeg then passes through each heat exchanger, to heat individual buildings before it returns to the system at a cooler temperature.



The Cost

On average, district heating costs are 10% less than that of gas. As district heat does not need to be converted into another form of energy before use, it is also more efficient.

Even the most efficient gas and oil boilers cause energy to be lost as it converts to heat. Heating system maintenance costs are also less for district heating. So by switching to district heating, you will see an immediate reduction in your energy bill, therefore saving you money.



The Benefits

District heating will offer you real cost-saving advantages:

- **Reduced Carbon Emissions**
The heat provided by the Dublin District Heating System will come from a sustainable and efficient process thus eliminating any carbon emissions produced on site for heating.
- **Reduced Consumption of Fossil Fuels**
By providing district heating, Dublin City is taking a step away from fossil fuels, and moving towards becoming a sustainable city which is planning for the future. By signing up to the Dublin District Heating System you become part of this positive change.
- **Increased Levels of Comfort**
The Dublin District Heating System will allow you to decide when, where and how

much energy you need, ensuring maximum comfort regardless of weather conditions.

- **Even Space Heating**

District heating keeps temperatures at an even level throughout the day. This means occupants experience a consistent level of comfort.

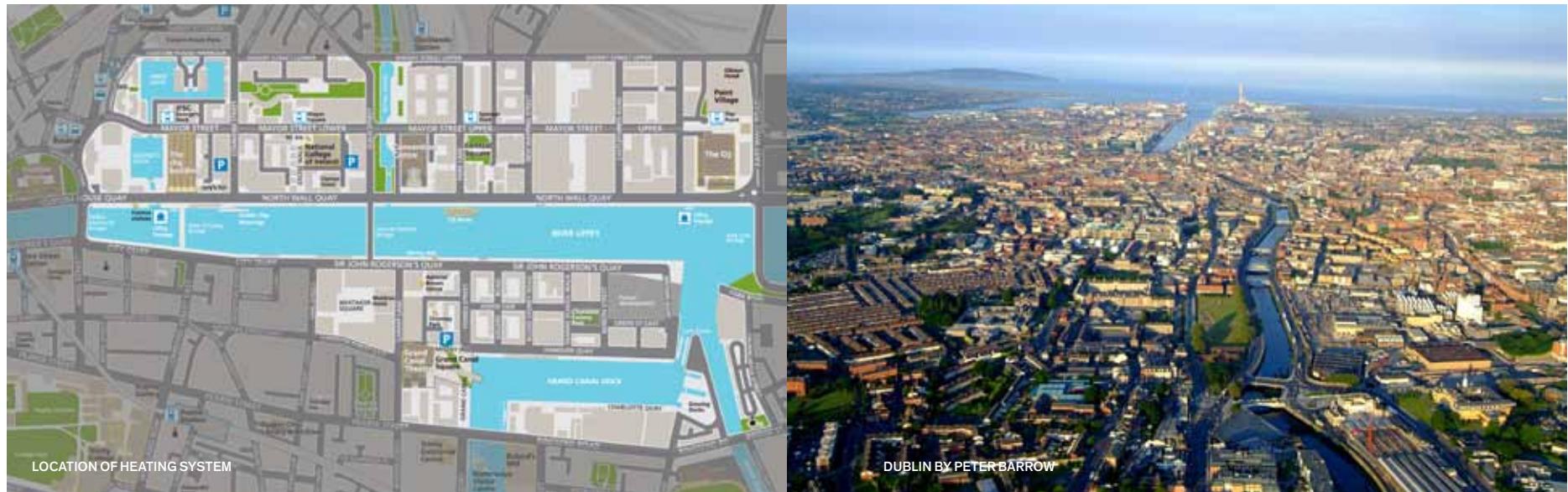
- **Unlimited Supply of Hot Running Water**

District heating provides hot water on demand – there is no need for an immersion system for hot water, nor does the building need to be heated for occupants to avail of hot water.

- **Increased Property Value**

The external network of system infrastructure will be installed by Dublin City Council but will have the potential to increase the value of your property, in a similar manner to which having the Luas line adjacent to your building might.





The Details

The district heating system is planned to come on stream in the Dublin Docklands in 2016. There is already some district heating infrastructure underground in this area in addition to a tunnel which has been built under the Liffey in preparation for the Dublin District Heating System. The tunnel will be used to carry district heating pipes between users both North and South of the river.

Why Sign up Now?

District Heating will become available in the Dublin Docklands and surrounding areas in 2016, however the actual location of the pipes in the ground is currently being planned and will be driven by demand.

District Heating is a commodity which has a whole range of benefits, however these benefits are only available to the businesses which are served by the pipes. The Dublin City letter of intent is key to ensuring your company will be served by the system.

Why is District Heating good for Dublin?

District heating will help Dublin achieve its aims of being:

- **Energy efficient and flexible in its energy choices**

- **Less dependent on imported energy such as oil**
- **More competitive**
- **A leader in managing climate change**

Dublin City Council is committed to the development of a district heating network in Dublin. It is intended to begin this development in the Docklands Area and extend it to other parts of the city.

District heating networks are very common throughout the EU, so both the technical and practical aspects of running a district heating network are well understood; therefore best practice from other countries will be applied to the Dublin District Heating System.

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- ◆ Be part of the **Dublin District Heating System** and be more energy efficient as well as helping Dublin become a leader in sustainable energy.

Dublin City Council's Promise

The district heating network provided by Dublin City Council will be one where individual consumers will receive a high quality service. Heating specifications will be as good as or superior to conventional heating systems with the added benefits of reduced overall investment costs, competitive user costs, unlimited hot water and reduced environmental impact. The Dublin District Heating System will be run as a new utility and each customer will have a separate meter.

To become part of the Dublin District Heating system or to discuss the benefits for your business or building some more, please contact me at any time:

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