



# South Dublin County Council Tallaght District Heating Scheme

## KEY FIGURES:

- 58% of heat delivered is zero-carbon waste heat from a local data centre
- 1,962 homes, 16,250 m<sup>2</sup> commercial space and 47,000 m<sup>2</sup> public sector buildings connected in Phase 1
- Phase 1 will deliver 1,441 CO<sub>2</sub> savings annually

## Overview

The South Dublin County Council Tallaght District Heating Scheme (TDHS) will establish a sustainable district heating solution in the Tallaght area to provide low-carbon heat to public sector, residential and commercial customers. The objective of this project is to **decrease the GHG emissions associated with the use of fossil fuels for heating** in Tallaght, in order to contribute to national level renewable energy, energy efficiency and CO<sub>2</sub> targets and establish Tallaght as a leader in innovation in the area of climate change.

This project delivers a **high level of innovation** in the heating sector, with the **first Irish data centre to be used to supply waste heat** to heat nearby buildings, and will be the **only such system in Ireland and the UK**.

## Heat Supply and Project Phases

A **local data centre has committed to the project**, and has received planning permission with condition that they will supply waste heat to the TDHS. The project has made significant progress to bring it to its current status, and has recently gone out to tender for Stage 1 of a two-stage procurement process, in order to ensure the project stays on track.

The first phase of this project will connect existing and new local authority buildings, a new private sector high-density residential/commercial development, and the Institute of Technology Tallaght (pending final agreement), to a local heat network. The existing South Dublin County Council buildings connecting to the DH scheme are the County Hall offices and County Library, the Civic Theatre and the Rua Red building, totalling 27,000 m<sup>2</sup> heated floor area. Connection of these public buildings to the Tallaght District Heating Scheme will have a **significant effect on public sector energy efficiency and CO<sub>2</sub> targets, as well as decreasing public spending on energy and fossil fuels**.

The heat network will be supplied by a **local, low-grade waste heat source from a data centre**, utilised through a centralised large-scale heat pump, housed in an on-site pump house. The pump house will include thermal storage facilities to take advantage of off-peak electricity and possibly demand response services, while also providing a source of back-up.

The DH infrastructure outlined in this project will allow the project to be scaled up and have a direct impact far beyond the current scope outlined in the initial phases. The plan for the Tallaght DH scheme is to connect as many heat demands as possible, **switching customers from current fossil fuel heat supply to low-carbon, sustainably-sourced heat supply**.

The Dublin energy agency Codema will work as project partner with South Dublin County Council, providing technical, financial and communications input over its lifetime. The project is also supported by the HeatNet NWE project, which will provide knowledge-sharing from experienced partners across North-West Europe.

## Further Info:

For further information on the specifications of this project, please visit <https://consult.sdublincoco.ie/en/consultation/part-8-heatnet-energy-centre>

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