



TALLAGHT DISTRICT HEATING SCHEME

BELGARD ROAD, DUBLIN 24

COMPLETED February 2023

Client: Fortum eNext Ireland Limited / South Dublin Co. Council
Architect: Fortum eNext Ireland Limited
Contract Value: €3 Million



Summary

The project consisted of the construction of Phase 1 of the Tallaght District Heating Scheme (TDHS), the first large scale district heating network of its kind in Ireland. The Energy Centre building itself is primarily a Plant facility, which houses the equipment to convert, store and distribute heating and cooling to the neighbouring areas. The centre also includes support facilities such as a small meeting room/ office and staff toilets. The project utilises waste heat from an adjoining data centre in Tallaght to provide low carbon heat to public sector buildings, 1,400 nearby residential apartments and over 2000m² of commercial buildings.

In the case of the Tallaght District Heating Scheme, this project will deliver a high level of innovation, as waste heat from the nearby Amazon data centre supplies the heat to the network.

Key Issues

- Significant coordination and integration of large number of existing services in Belgard Rd + Airton Rd, including water, mains drainage, ESB, Fibre Optic data and Gas. Works required the relocation of a substantial 1050mm culvert pipe for the Tymon Puddle stream
- Installation of complex structural steel frame, diagonal sheet metal (copper) shingle cladding, incorporating ventilation louvres and specialist access doors.
- Coordination with numerous specialist subcontractors regarding installation of all District Heating systems and equipment
- Significant coordination with numerous stakeholders, including South Dublin County Council, Codema, Fortum eNext Ireland Ltd., Amazon Web Services and TU Dublin-Tallaght

Site Preparation - Groundworks



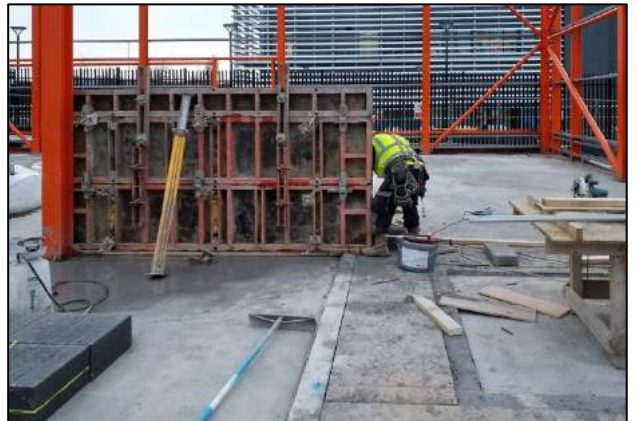






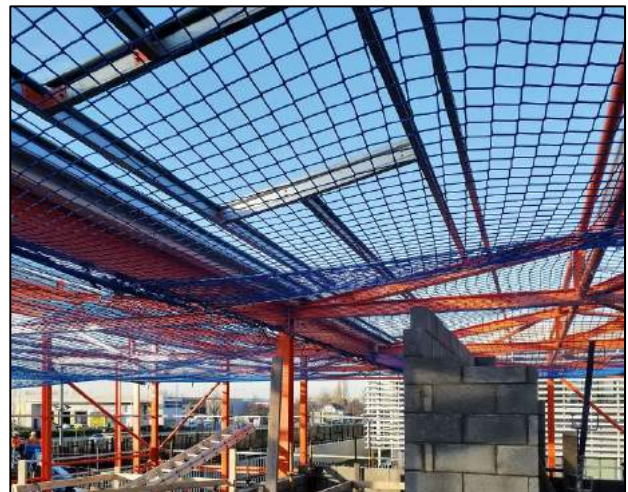
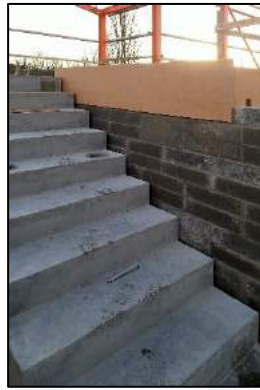


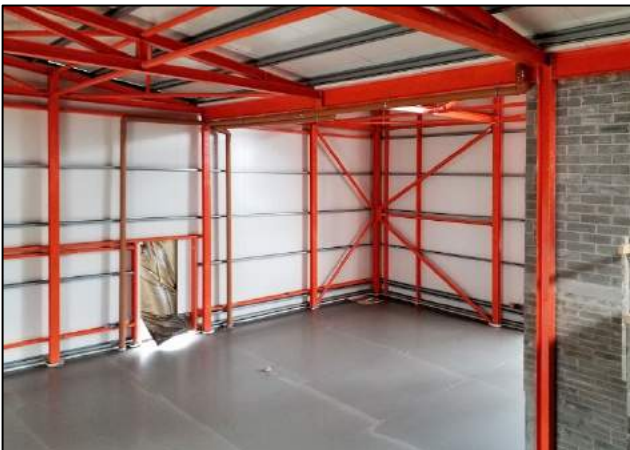


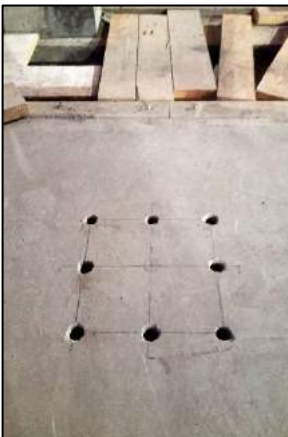
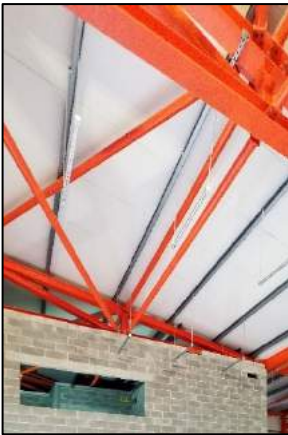






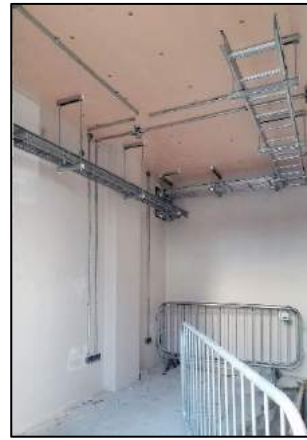




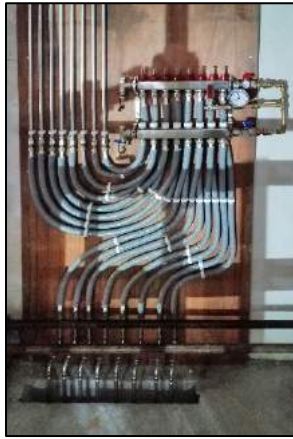


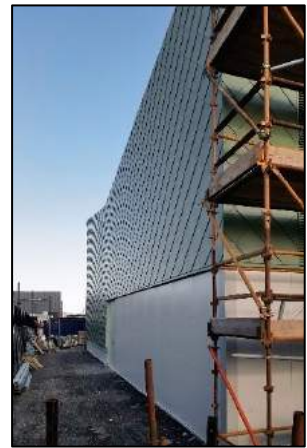
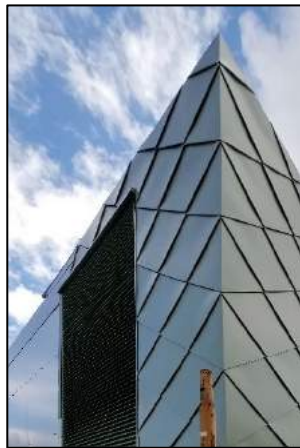


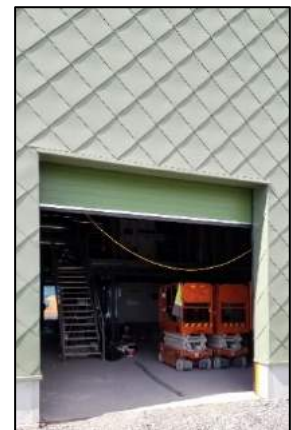




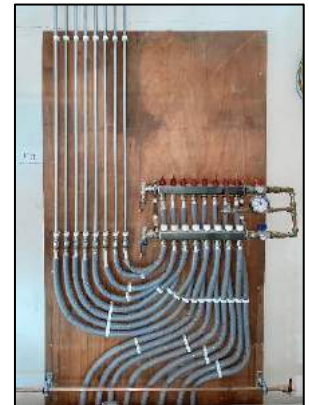
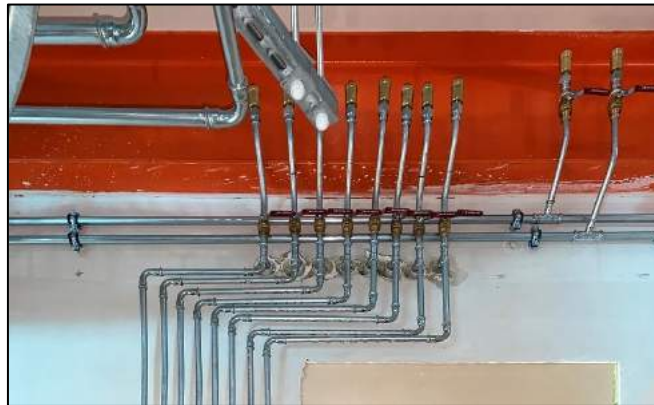




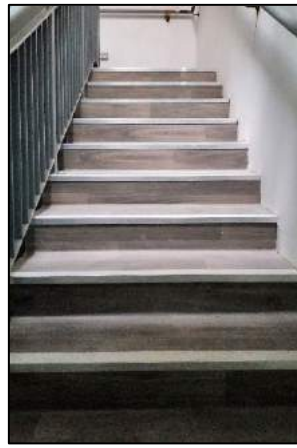














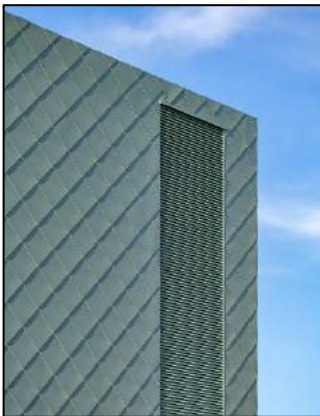
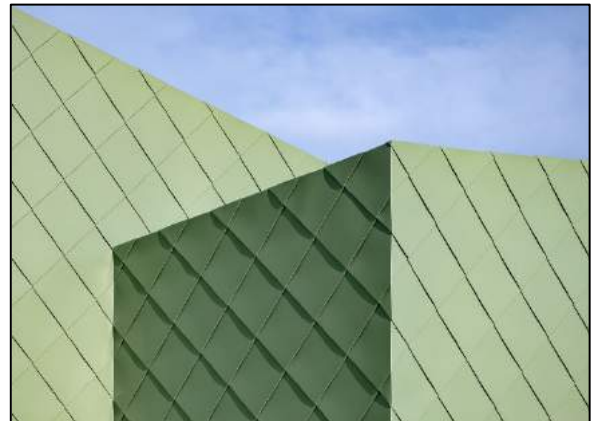






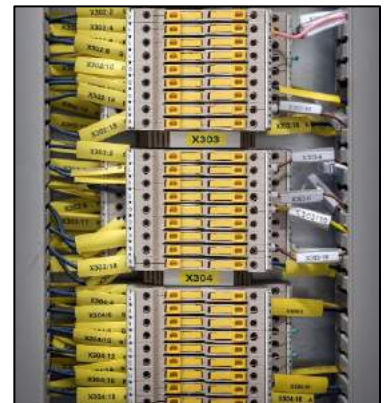


Completed Project

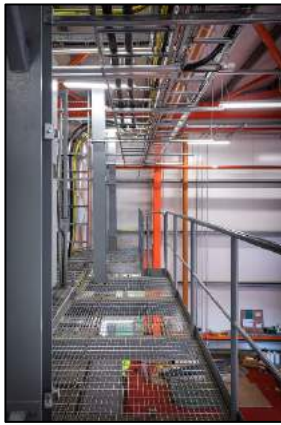
















Aerial view of site - Photo courtesy of Fortum



Minister for the Environment, Climate & Communications and Transport, Eamon Ryan TD and the Mayor of South Dublin County, Councillor Emma Murphy, officially opening the Tallaght District Heating Network at the Heatworks Energy Centre in Tallaght. Photos of opening event by Ben Ryan