



PIONEERING RENEWABLES PROJECT IN STIRLING

KEY INFORMATION

Customer

Stirling Council
Stirling, Scotland, UK

Time scale

Dec 2018 - Apr 2019

SOLUTION

District heating system

Length, dimensions, insulation

2.5 km DN114-168 Series 2

Leak detection system

isoalarm model 4500

SALES RESPONSIBLE

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Developing Scotland's sustainable heat network

Stirling Council's district heating project will be the first in the UK to use a mix of pioneering renewable technologies to turn waste water into energy.

A Combined Heat and Power (CHP) unit will supply the network with heating using a heat pump system to deliver renewable electricity to power the waste treatment site. Combined with technology designed to recover heat from Scottish Water's wastewater system, it will provide low carbon heat to the network in the form of hot water. Furthermore, the system will store biogas, currently a waste product, for use in the heating network.

The initiative makes Stirling Council the first local authority in Scotland to sign a Sustainable Growth Agreement with SEPA, supporting its continuing commitment to environmental protection.

Possibilities for expansion

The project is being delivered by FES Energy and its supply chain partners including isoplus Piping Systems Ltd.

The sustainable heating network will consist of 2.5 km of underground district heating pipework and a fibre communication network along the Forthside Way. The installation will also include heat substations to facilitate the district heating connection to existing properties.

Initially, the network will distribute heat in the Forthside area to the Peak, Forthbank, St Modan's High School, the Robertson Trust Barracks Development, Moray House, Jubilee House and potential future developments at Forthside. The network also has the capacity to expand the network to residential areas across the city.

The isoplus group has more than 30 years' experience within the production of pre-insulated piping systems with low heat loss, delivered in accordance with the norms and demands of the industry. We are present in more than 30 countries around the world and have considerable expertise in meeting international as well as national standards. It is our ambition to be the fastest, most flexible and most reliable partner in the business.

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