

# Joined Up Thinking from Stockport Homes

Stockport Homes are upgrading the heating system to low rise apartments in the Lancashire Hill area in Stockport. This has been driven by a requirement to improve system efficiencies and reduce costs for residents, and as part of these works, Essco Energy are supplying heat interface units to replace individual hot water tanks in each home.

This social housing scheme features 292 homes that are connected to a district heating network that supplies six buildings, all of which are managed by Stockport Homes. This type of system was originally installed as it operates with lower carbon emissions when compared to individual gas fired boilers in each home.

**Michael Eastham Project Leader at Stockport Homes Group (SHG) comments, “Essco have worked very closely with Stockport Homes to develop and supply bespoke units to allow heating and hot water to be adjusted and individually controlled within each home, and one that is designed to be economic, efficient and ‘fit for purpose’”.**



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## IMPROVED SYSTEM EFFICIENCY AND CONTROL

Previously a direct heating system, each apartment will feature an Essco indirect twin plate heat interface unit for space heating and instantaneous hot water, with hydraulic separation of the secondary circuit. This means each apartment can be isolated from any primary network issues, offering a safer and more efficient system and the ability to accurately meter the heat used at each apartment.

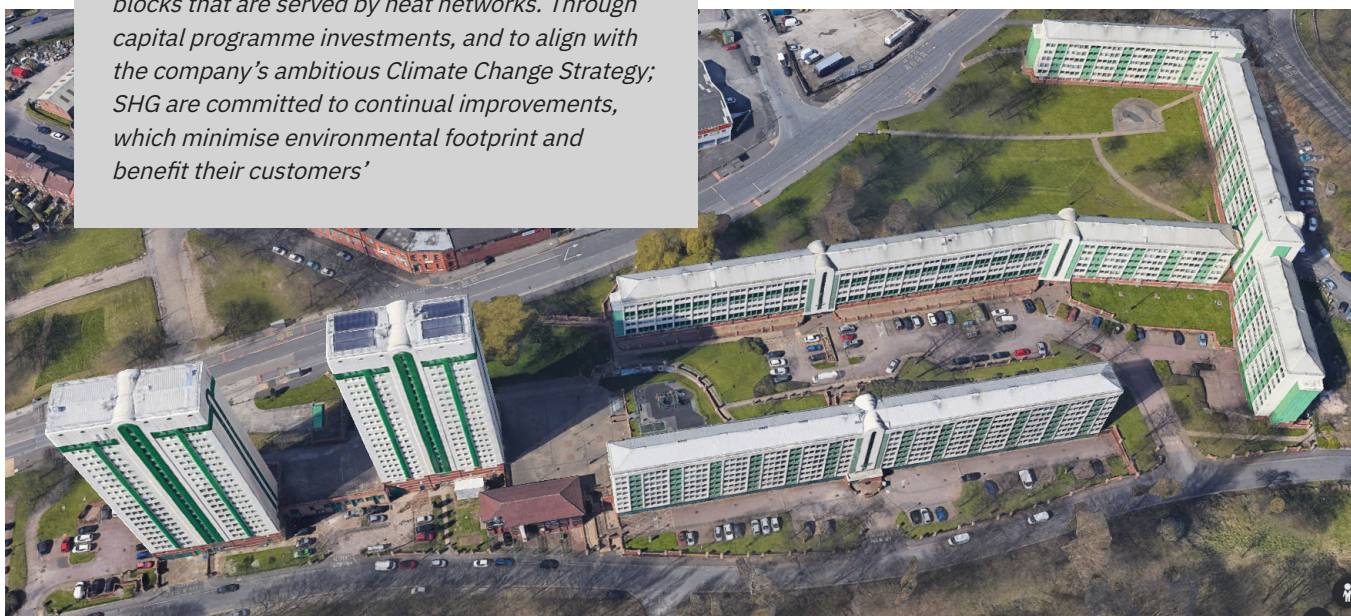
The new heating system will optimise the district network and is designed to operate on a much improved  $\Delta T$ , greatly increasing the efficiency of the central plant. This is achieved within each HIU by modulating the primary flow rate based on demand and controlling the secondary flow rate on the heating circuit to maintain low return temperatures throughout.

## THE IMPORTANCE OF METERING & BILLING

With an M-bus meter fitted inside each HIU, the Lancashire Hill apartments are fully compliant with the Heat Network (Metering & Billing) Regulations 2014. These regulations require each dwelling to be individually metered, and billing must be based on actual consumptions not estimates. The Essco HIU is connected to an Energy Billing UK credit and prepayment system and in-home display that puts the resident in control of their energy use.

### STOCKPORT HOMES GROUP

*Stockport Homes are committed to providing energy efficient homes and their housing stock includes two thousand apartments in 25 tower blocks that are served by heat networks. Through capital programme investments, and to align with the company's ambitious Climate Change Strategy; SHG are committed to continual improvements, which minimise environmental footprint and benefit their customers'*



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# Our Heat Interface Unit Range



There is an EDGE HIU to suit most heat network applications. And if space cooling is required, the EDGE-CHW hits the spot. You can find an overview of the models in the range below.

MODEL	EDGE-T	EDGE-C	EDGE-D	EDGE-S	EDGE-DHW	EDGE-CHW
	Twin plate HIU	Single plate HIU	Single plate HIU	Single plate HIU	Single plate HIU	Single plate CIU
Domestic Hot Water (DHW)	Instantaneous	Cylinder Feed	Instantaneous	-	Instantaneous	-
	Indirect	Direct	Indirect	-	Indirect	-
Space Heating (HTG)	Indirect	Indirect	Direct	Indirect	-	-
Space Cooling (CHW)	-	-	-	-	-	Indirect



*Essco EDGE-T Twin Plate HIU*



*Essco EDGE-D Single Plate HIU*

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