



LoadTracker combined heat and power (CHP)

The Project

Social Housing re-development project of a 'B' listed former rope mill into a multi dwelling property consisting of 16 separate flats designed to house vulnerable young people.

The Challenge

As an award winning Eco development, providing an energy efficient, low emissions heating/ hot water system that would help reduce fuel costs and keep them down was essential.

Summary of Site Demand

Annual electricity demand	172,368 kWh
Electricity day tariff	16.32 p/kWh
Electricity night tariff – 7h	13.19 p/kWh
Heating and DHW demand	328,482 kWh
Gas price	3.84 p/kWh

The Solution

Supplied and installed one 15kWe/ 30kWth LoadTracker CHP unit able to supply 69% of site heating and hot water and 66% of electrical demand.

■ Features

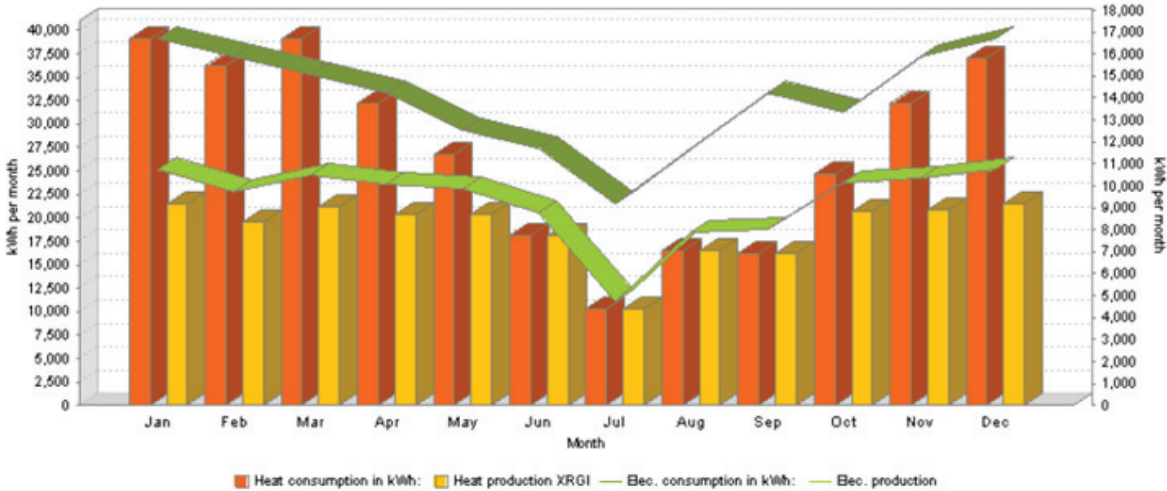
- Modular Unit Design for flexibility of installation.
- LoadTracker automatically modulates electrical output, which minimizes unnecessary grid electricity consumption.
- Noise levels of 49dB comparable to low level office noise.
- Long service intervals (8,000 hours or 2 years).

■ Benefits

- Consumption & Production
- Carbon Footprint Savings
- Cost Savings



■ Consumption & Production

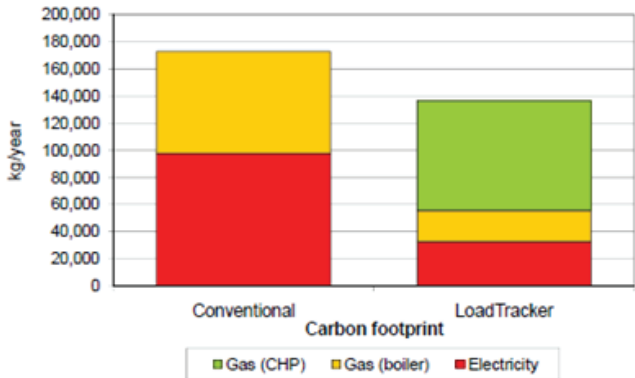


■ Carbon Footprint Savings

36 tonnes of CO₂ emissions could be reduced by installing a CHP system relative to a conventional mains supply/ gas boiler system.

CO ₂ (conv)	172,876 kg CO ₂ pa
CO ₂ (CHP)	136,674 kg CO₂ pa
Net reduction	36,203 kg CO ₂ pa

This is an equivalent **21%** reduction of CO₂ emissions.

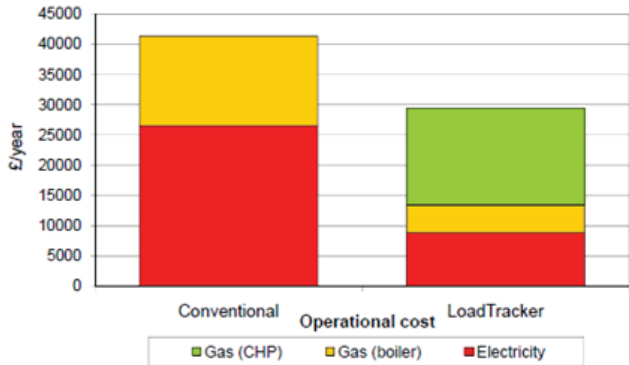


■ Cost Savings

The use of LoadTracker CHP would result in annual savings of **£11,924** relative to a conventional mains supply/ boiler system.

	Conv.	CHP
Electricity	£26,512	£8,827
Gas (Boiler)	£14,840	£16,030
Gas (CHP)	0	£4,571
Total	£41,352	£29,428

This is equivalent to saving **28%** on energy bills



For further information contact:

SAV Systems, Scandia House, Boundary Road, Woking, Surrey GU21 5BX
 Tel: +44 (0)1483 771910 Web: www.sav-systems.com E-mail: info@sav-systems.com

