



LoadTracker combined heat and power (CHP)

The Project

A new build project for Dunedin Canmore Housing Association's consisting of a multi- use property containing 192 aordable homes and 8 business units to regenerate a rundown area of Edinburgh.

The Challenge

To provide a system that would reduce CO₂ emissions by a minimum of 20%. With limited space constraints and high load demands equipment sizing was a major consideration for this project.

Summary of Site Demand

Annual electricity demand	868,000 kWh
Electricity price	11.0 p/kWh
Gas consumption	1,545,000 kWh
Gas price	4.0 p/kWh

The Solution

Supplied and installed four 15kWe/ 30kWth LoadTracker CHP units able to supplying 74% of site heating and hot water demand and 54% of electrical demand.

■ Features

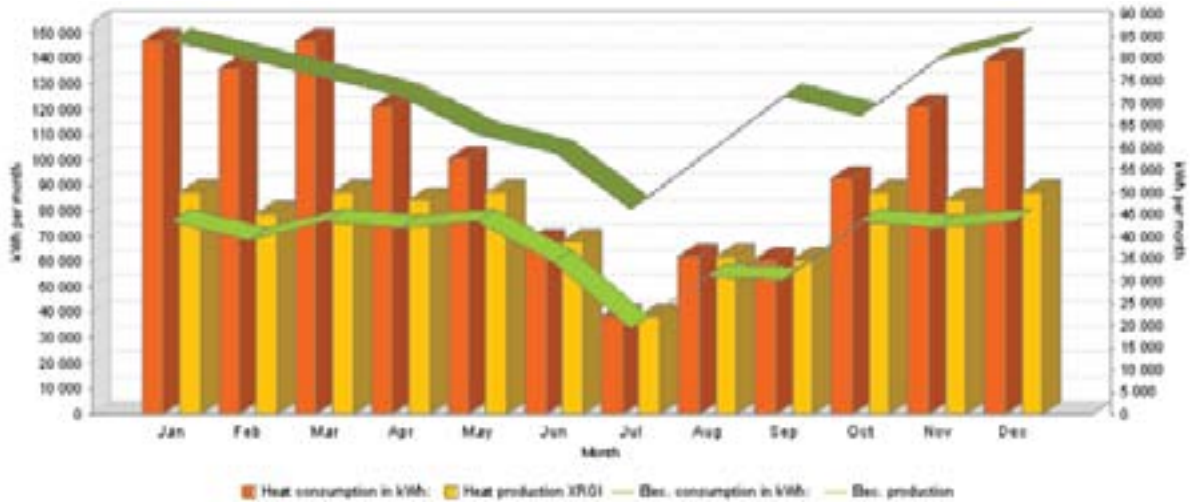
- Modular Unit Design for flexibility of install.
- LoadTracker automatically modulates electrical output, which minimizes unnecessary grid electricity consumption.
- Noise levels of 49db comparable to low level office noise.
- Long service intervals (8,000 hours or 2 years).

■ Benefits

- Consumption & Production
- Carbon Footprint Savings
- Cost Savings



■ Consumption & Production

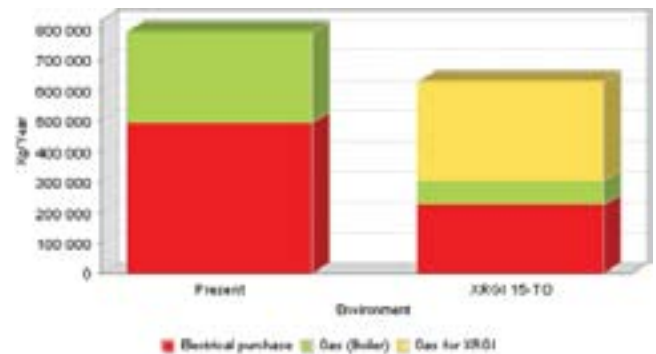


■ Carbon Footprint Savings

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

CO ₂ (conv)	792,754 kg CO ₂ pa
CO₂(CHP)	631,182 kg CO₂ pa
Net reduction	161,571 kg CO ₂ pa

This is an equivalent **20%** reduction of CO₂ emissions.

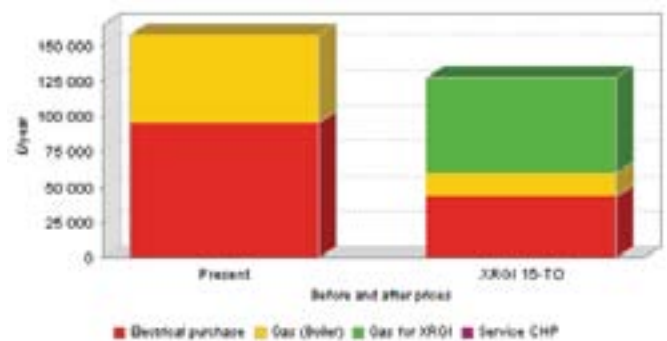


■ Cost Savings

The use of LoadTracker CHP would result in annual savings of **£29,965** relative to a conventional mains supply/ boiler system.

	Conv.	CHP
Electricity	£95,480	£43,697
Gas (Boiler)	£61,800	£16,117
Gas (CHP)	0	£67,501
Total	£157,280	£127,315

This is equivalent to saving **19%** on energy bills



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