



# ENWA

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## Granite City clears way for improved performance.



### Project:

Aberdeen City Council Housing.  
Community Heating and Sheltered Accommodation.

*“The improvements are real, resident complaints and reactive maintenance related to problems with heating systems at our sites have reduced significantly after treatment”.*

Ronald Ferguson, Technical Officer.

### Case history

- Escalating reactive maintenance costs and letters of concern from site wardens regarding erratic heating in their facilities.
- Analysis of call out data indicated common faults including seized TRV's, blocked strainers and impaired valve function. (Fig 1, overleaf). Effective control and management of systems was difficult.
- A condition survey revealed poor water quality, characterised by high levels of particulates and total iron.
- Effective filtration and corrective water treatment was considered essential.
- William Rowe of Integrated Energy Utilities Ltd had installed an EnwaMatic® within the Council's Stockhill Community Heating project in November 2003.
- A conventional chemical approach was not favoured due to the potential risk of scouring the older HVAC systems. Cleaning the particle load was the main priority to remedy the blockages.
- Combination of side stream filtration with passive conditioning was deemed more suitable for the older properties.

***“We are continuously improving our services and the efficiency of our facilities for best value. The proven performance of EnwaMatic® in six of our sites gave us total confidence in the technology and our recent investment shows the commitment we are making”.*** Alan McPherson, Energy Assessor.

For a full version of this case study and any other information on the EnwaMatic® water treatment units please contact:

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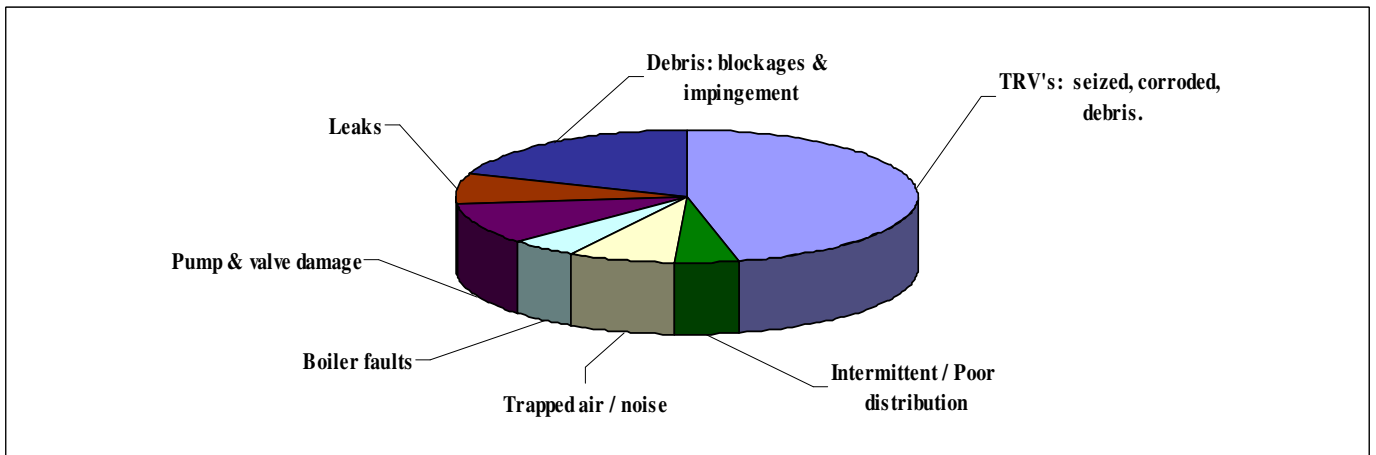
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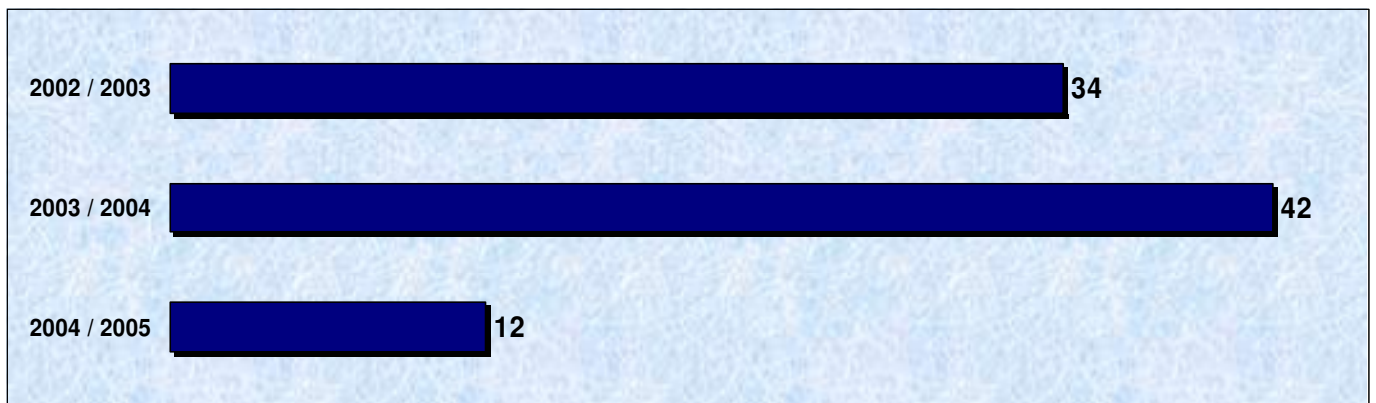
### The EnwaMatic® approach

- A pilot installation was approved within a poorly performing site at the beginning of June 2004.
- Water quality was significantly improved and reliably maintained.
- Reactive maintenance costs fell, along with resident complaints. (Fig 2, overleaf)
- In July 2004 additional units were installed in four priority sites across the city.
- ENWA executed a condition survey of 21 additional sites in September 2004. Independent water analysis identified those with the poorest water quality.
- A direct correlation between poor water quality and poorly performing sites was identified and a priority listing made by the Council.
- Council approved the treatment of all sites in November 2004, with 28 installations completed across the city by June 2005. A further unit was installed at Hazlehead Academy in November.
- Independent analysis of energy consumption showed a mean 8% reduction in treated properties over the 2004-2005 heating season (Fig 3, overleaf)



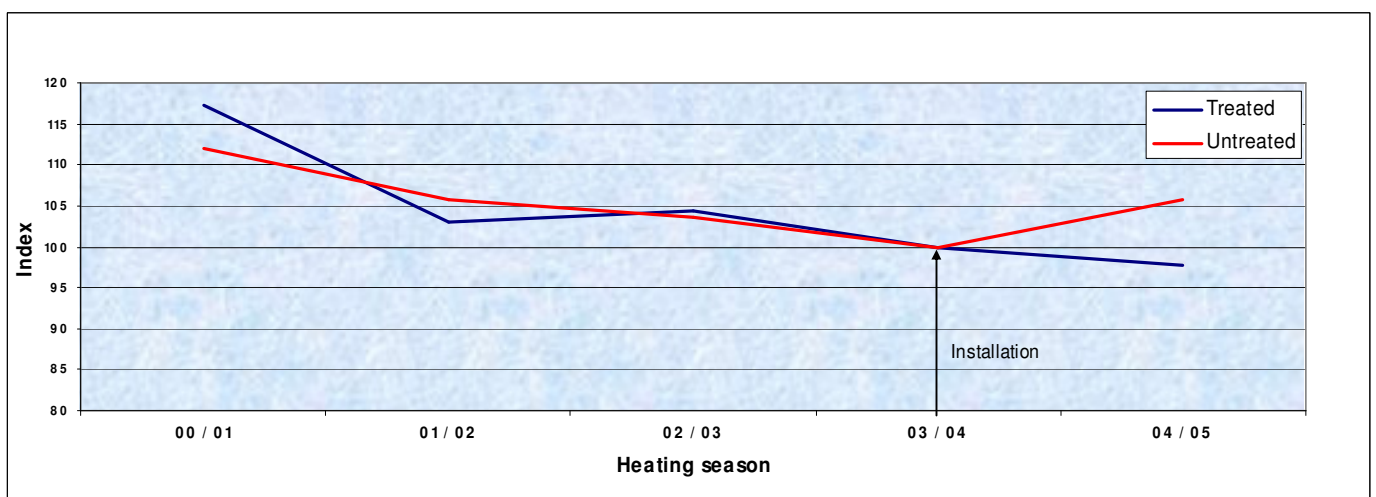
**Fig 1: Maintenance call outs to heating system by fault category.**

Aberdeen City Council, Lewis Court sheltered housing, 2001 - 2004.



**Fig 2: Maintenance call outs: Number per heating season.**

Aberdeen City Council, Lewis Court sheltered housing, 2002 - 2005. EnwaMatic installed June 2004.



**Fig 3: Energy consumption trends by heating season (kWh oil / gas).**

Means for 20 control properties compared against 5 pilot installations. Adjusted to index values from start of trial. (June 2004).