

LPG



# Smarter Energy Solutions

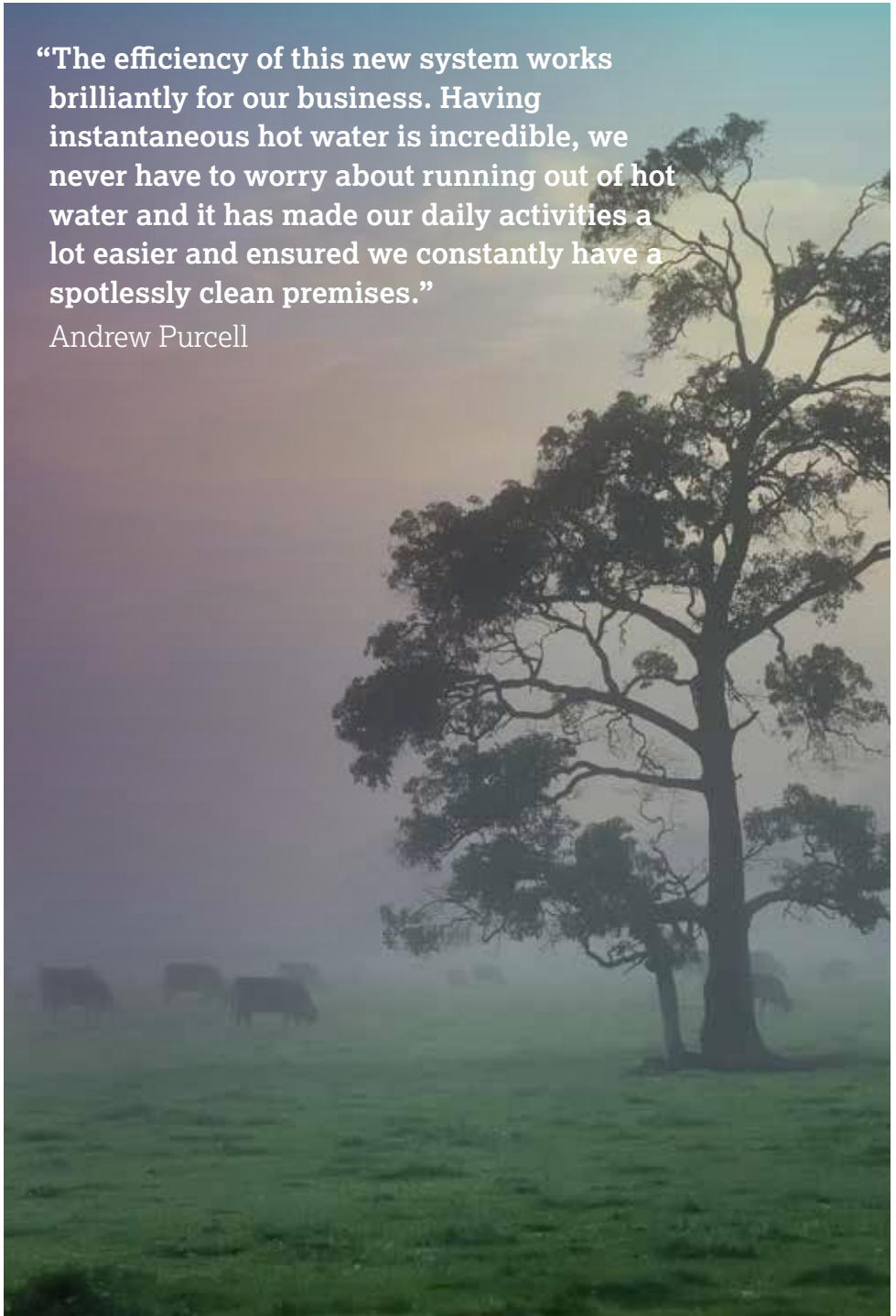
**Kiltallaght**  
Dairy Farm

Wherever you are



**“The efficiency of this new system works brilliantly for our business. Having instantaneous hot water is incredible, we never have to worry about running out of hot water and it has made our daily activities a lot easier and ensured we constantly have a spotlessly clean premises.”**

Andrew Purcell





## The Challenge

Andrew Purcell and Alf Mc Glew are proud owners of Kiltallaght Dairy Farm, a productive farm with a 300 strong herd and 20 milking points located in Termonfeckin, Co. Louth.

With the abolishment of milk quotas set for 2015, the farmers were planning an increase in milking points from 20 to 35 units. This in turn would lead to an increase in the requirement for vast amounts of hot water and a related increase in water storage costs. Kiltallaght Farm has a wash-down period of **30 minutes duration** during which a reliable hot water supply of at least 60°C is necessary for the efficient cleaning of milk lines and storage tanks. This is to prevent legionella bacteria from forming. Prior to contacting Flogas, water was being heated by electricity for an hour or more before use and then stored and reheated throughout the day, this was necessary to satisfy the safety precaution of the build-up of legionella bacteria. This system led to

very high fuel bills and meant Andrew and Alf were forced to look for a more viable and more efficient system.

## The Flogas Solution

Flogas sales executive Tom Wall and installer Gerard Leonard met with Andrew to discuss the option of LPG powered water heaters. The option of choosing an **Andrews FASTflo** water heater had the benefit of on demand hot water at whatever temperature required, determined by a controller which enabled the water to heat from any temperatures between **37°C and 80°C**.

Equipped with auto ignition, the Andrews FASTflo heaters would **incur no running costs** when the unit is idle which would completely eliminate hot water storage costs. In turn since storage of hot water is no longer an issue. In addition to this the heaters would produce 196 litres of on demand hot water in just seven minutes.

This new system would not only increase efficiencies on the farm and offer a reliable system that could cope with the high hot water demand, it would also be a more financially viable system for their business. Andrew and Alf would now **only pay for the amount of hot water used as opposed to paying for high hot water storage costs**, which is the case with many farms using electricity. Andrew and Alf were delighted with the proposed system and installation works began immediately.

## Seamless Changeover Process

The Flogas team ensured the changeover to LPG and installation of the two 56kw Andrews FASTflo water heaters was as seamless as possible with no day to day interruption to their daily farming activities. An LPG tank was installed near the milking parlour. A concrete base was laid down with the LPG tank placed on top. Installer Gerard Leonard then connected the LPG supply to the two Andrews FASTflo heaters which were mounted on an opposite wall. The system was then ready for commission.

**“Cleaning the milk lines and milk tank has never been as easy as the correct temperature for effective cleaning can be achieved with just the press of a button. The impeccably clean milk tank and milk lines further enhance the premium quality milk we produce.”**

**Andrew Purcell**



### Want to find out more?

If your current system is not providing you with the level of service you require and contributing to high bills, call Flogas for your free on-site survey and quotation for a new system tailored to your Dairy Farm. [We will analyse your existing energy costs and outline the savings and benefits you'll enjoy by converting to Flogas LPG.](#)

\*Calculations based on energy prices of LPG & Electricity at time of case study (Jan 2016)

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## Results

On demand hot water  
FAST – **196 litres of hot water** at 80°C in just seven minutes

**Increased control** over water temperatures - from 37°C to 80°C via a controller

Increased efficiency and significantly **reduced running costs** with no water storage costs throughout the day and night

**Reduced carbon footprint** and full control in a current climate of high waste water charges



## Contact Flogas for free site visit

To quote the savings that will be made (Energy Survey)

To carry out tank location assessment

To draw up a proposal and pricing

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