



Brophy Agri-Services  
Grain Drying  
Case Study

## THE FLOGAS GRAIN DRYING CHALLENGE

Brophy Agri-Services in Tullow, Co. Carlow is one of the largest agricultural merchants in the area. Grain drying is a significant part of the business and the company was using diesel oil to fuel its operations. Brophy Agri-Services was interested in switching to Flogas LPG as it was searching for ways to reduce costs, increase production efficiency and improve emissions.

## THE FLOGAS SOLUTION

Flogas has well-established links and experience in the grain drying sector so Gregory Brophy of Brophy Agri-Services met the company's area representative Tommy Murray and technical services engineer Brian Murphy to explore suitable options.'

Gregory Brophy of Brophy Agri-Services commented, "The grain drying season is from August to October depending on the weather, so it's short but extremely intensive and the dryers operate 24/7 during this period. Any downtime could result in grain backlogs and possibly huge financial losses so a reliable source of energy and equipment is critical for us."



Brophy Agri-Services in Tullow, Co. Carlow

## SEAMLESS CHANGEOVER PROCESS

Flogas proposed the replacement of the existing two-stage oil burner with a fully modulating Weishaupt WM G20 LPG burner. The modulating burner allowed for more precise temperature control, critical to the drying process, while at the same time delivering better process efficiencies and subsequently reduced energy consumption. As LPG is a clean burning fuel, sulphurate and particulate emissions will be eliminated. The changeover to LPG will also bring about a 31 tonnes reduction in carbon emissions, based on Brophy Agri-Services oil usage from last year compared with the equivalent amount of LPG.

The intense nature of the grain drying process means that a constant supply of fuel has to be guaranteed. Therefore, the correct sizing of tanks is critical and at the same time, the tank compound needs to be located in such a way so as not to interfere with day to day operations. The Flogas solution was the installation of three x 4 tonne LPG tanks which gave on-site storage of almost 25,000 litres.

The project was agreed and the Flogas contractors installed all the necessary regulators and gas pipework to complete the installation within budget and on time for the 2013 grain drying season.

## Results

- Reduced costs and increased production efficiency
- Reliable system for 24/7 operations
- Precise temperature control
- Substantial reduction in carbon emissions of over 31 tonnes
- Considerable cost savings

Brian Murphy of Flogas said, "It was very much a joint venture as Brophy Agri-Services had a clear vision of what they were trying to achieve in terms of improving process efficiency, while at the same time staying within the tight parameters of the drying process. Their input was vital in providing a solution which met their very specific needs and at the same time offered considerable cost-savings."

"Everything worked well during the critical grain drying season and I was very impressed with the cleanliness, efficiency and responsiveness of LPG. I was also particularly pleased with the cost-savings that resulted when we converted our grain drying system from oil to LPG."

- Gregory Brophy, *Brophy Agri-Services*

As an energy solutions specialist, Flogas can design and implement a complete turnkey solution for your business, whatever its size so why not avail of our no-obligation free survey? We'll analyse your existing energy costs and outline the benefits and savings you'll enjoy by converting to Flogas LPG.



## 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

### Flogas Drogheda:

Knockbrack House,  
Matthews Lane,  
Donore Road,  
Drogheda,  
Co Louth, Ireland

T: 041 9831041

E: [info@flogas.ie](mailto:info@flogas.ie)

W: [www.flogas.ie](http://www.flogas.ie)

### Flogas Belfast:

Airport Road West,  
Belfast Harbour Estate,  
Belfast BT3 9ED,  
Northern Ireland

T: 028 90732611

E: [info@flogasni.com](mailto:info@flogasni.com)

W: [www.flogasni.com](http://www.flogasni.com)



[facebook.com/flogasireland](https://facebook.com/flogasireland)



[@FlogasIreland](https://twitter.com/FlogasIreland)