

Calor LNG cuts Aggregate Industries' asphalt plant carbon emissions by 17%



“We made the switch to LNG because it is a cleaner source of energy. We were previously using kerosene, but LNG is a more cost-effective product to burn.”

Simon Evans

Plant Manager at Colemans Quarry

Aggregate Industries' Colemans Quarry site has become the first asphalt plant in the UK to make the switch to LNG, cutting both costs and carbon emissions with the help of Calor.

Based in north Somerset, the plant has been supplying the construction industry with building material for more than 60 years. It uses large quantities of gas to heat and dry the 250,000 tonnes of asphalt produced each year, and as the site is active 24/7, maintaining a constant, reliable supply of fuel plays a vital role in hitting production targets and meeting customer demand.

Customer: Aggregate Industries
Applications: Asphalt production
Location: Colemans Quarry, Somerset

Project highlights:

- First asphalt plant in the UK to switch from kerosene to LNG
- 17% reduction in CO₂ emissions per tonne of asphalt reduced
- Reliable supply infrastructure mitigates risk of downtime
- Telemetry system remotely monitors LNG tank levels



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Case Study
Aggregate Industries



The site is located off the mains gas grid, and until recently the plant's burners were fuelled with kerosene. After seeing an opportunity to reduce both emissions and fuels, Aggregate Industries approached Calor about working together on a new drying process.

As well as substantially cutting fuel costs, the project has reduced the amount of CO₂ emitted per tonne of asphalt produced at the site by 17%. This cuts Aggregate Industries' annual emissions by 1,800 tonnes.

Turnkey solution

Representing Calor's first turnkey LNG installation in the UK, the commissioning project began in 2015 and was completed in May. As well as laying new pipework and converting the site's 16MW burner to run on LNG, Calor installed a 90m³ tank and a pair of vaporisers each capable of converting 2,000m³ of gas each hour.

A reliable supplier

One of the most important requirements of Aggregate Industries was that the site's supply needed to be extremely reliable, as any interruption in operations would be costly. Calor has ensured that there is never any risk of the site running too low on LNG by installing a telemetry system that measures tank levels remotely. As soon as the gas runs low, the company automatically arranges a delivery.

Evans says: "Calor can measure the level of gas in a tank, and they supply us with that information too. We're currently having about two to three loads of LNG a week and that's all delivered without us having to order it.

"The relationship between Aggregate Industries and Calor during this project was very good and we built up a positive working relationship. I would recommend Calor as an LNG supply company."

