

Load management helps Norish reduce UK carbon emissions and generate revenue

Partner Profile

Locations	Brierley Hill Wrexham Braintree Gillingham
Assets	Load reduction
Services	STOR and triad management
Capacity	0.9MW

Cold storage and logistics company Norish operates eight storage and distribution centres across England and Wales, providing in excess of 75,000 racked pallet spaces, of which 60,000 are temperature controlled.

New revenue from flexible cooling

Norish have four out of their eight sites connected to Flexitricity's smart grid, and are earning revenue from their Short-Term Operating Reserve (STOR) and triad management participation.



"When National Grid requires a brake to be applied to energy consumption, we can contribute by reducing plant loading for certain periods without affecting product temperatures or freezing cycles."

Norman Hatcliff, Managing Director, Norish

Turning load down or off

Norish uses 21GWh of electricity across its eight sites in England and Wales each year.

At times of high national electricity demand, or if a major power station fails, Flexitricity turns down Norish's cooling plant for short periods to reduce the stress on the electricity network. Critical temperatures are monitored to ensure the integrity of the stored product. This allows Norish to earn extra revenue without disrupting its normal business operations.

Reducing CO₂ emissions

Flexitricity provides Short-Term Operating Reserve (STOR) electricity – National Grid's most important source of reserve energy – which is held ready to keep the electricity system stable during times of system stress.

Every megawatt of capacity connected to Flexitricity is a megawatt that does not have to be held in reserve elsewhere. This reduces the need to keep coal and oil stations on hot standby or running inefficiently at part load – reducing emissions by between 300 to 750 tonnes of CO₂ per megawatt per annum.

Getting on with core business

Norish helps National Grid only within the constraints of normal business operations. Flexitricity understands that core business processes must always be protected, so the system operates only within pre-agreed limits, which are measured and checked in real time.

"We are a major user of energy, because of the nature of our business, especially where it includes temperature controls. Obviously we do everything



Key Facts

Up to 0.9MW of electricity consumption can be automatically turned off or down for short periods

Reduces national carbon dioxide emissions

No disruption to core processes

possible to manage energy use, both for cost reasons as well as environmental ones," commented Norman Hatcliff, Managing Director of Norish.

"In the main, our role is that when National Grid requires a brake to be applied to energy consumption, we can contribute by reducing plant loading for certain periods without affecting product temperatures or freezing cycles. We maintain the temperature controls that we need, but also cut consumption when required, subject to a pre-agreed maximum duration, during those periods of high demand.

"From a practical point of view, Norish engineers monitor our plant at all times. But the whole STOR process is automated and managed by Flexitricity. It brings in revenue to Norish, and allows us to do our bit in reducing carbon emissions."

To request more information about Flexitricity's demand-response services:

Call: 0131 221 8100

Email: info@flexitricity.com

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