



New revenue from flexible cooling

Load management



New revenue



Renewables friendly



Smart grid



Reduced carbon



Triad



STOR



Load management helps Norish reduce UK carbon emissions and generate revenue

Norish, a national operator of multi-temperature storage and distribution centres, is earning revenue from its electricity consumption through its relationship with Flexitricity.

Cold storage and logistics operator Norish is reducing UK carbon emissions while generating revenues from its energy operations, thanks to Flexitricity's smart grid approach.

Norish operates eight storage and distribution centres across England and Wales, including more than 75,000 racked pallet spaces, of which 60,000 are temperature-controlled. The company retains food and related products for its customers at temperatures as low as -29°C .

The company now has three sites connected to Flexitricity's smart grid and earning revenue from Flexitricity's services.

Working with Flexitricity

Flexitricity Ltd created and now operates the first, largest and most advanced 'smart grid' system in the UK. Flexitricity brings revenue to UK businesses, reduces national CO_2 emissions, and helps to secure energy supplies. The relationship between Flexitricity and British business is win-win. Most businesses are sitting on untapped sources of revenue in their generators and electrical loads, and Flexitricity enables them to access this income.



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 business processes

“When the National Grid requires a brake to be applied to energy consumption, we can contribute by reducing plant loading for certain periods.”

New revenues from existing assets

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’s smart grid provides Short Term Operating Reserve (STOR) electricity – the most important category of fast-acting generation or demand-reduction capacity – which is held ready for National Grid, to keep the electricity system stable during times of system stress.

Every megawatt of capacity connected to Flexitricity’s smart grid 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 the 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 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 the 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 reduce carbon emissions.”

flexitricity
Unlocking smart grid revenue

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