

# Bridging power supply for data centre

## CUSTOMER

World's largest real estate full-service provider

## LOCATION

Dublin, Ireland

## SECTOR

Data Centre

## KEY FACTS

**6 MW**

Power installed

**24/7**

On-site support

## THE CHALLENGE

### Reliable power for a data centre, whilst connection to grid is secured

When the customer was developing a new data centre in Dublin, it was faced with an increasingly common challenge. Thanks to a lack of available supply, the site would not be able to secure a connection to the power grid for .

Faced with this challenge and a need to get the site up and running as soon as possible, rather than wait for the grid to catch up, the customer needed a bridging power supply that could support the site until a connection was available.

## THE CHALLENGE

As this could take several months, the supply needed to be reliable enough to hit data centre tier requirements, use green technology that could meet with stringent EU standards on both emissions and noise, and be able to ramp up its power load as the data centre became fully active.

One of the primary causes of the lack of available supply was the boom of the Irish data centre industry itself, with large numbers of the power-hungry facilities being developed in the Dublin area in recent years.”

## THE SOLUTION

### Installation of next generation gas generator sets

We provided, installed and commissioned a bank of 5 next generation gas (NGG) generators able to provide 6MW of power. This was more than enough to supply the data centre, with capacity to spare for on-site services and to provide redundancy, while offering low capital costs and - with favourable gas prices - an operating cost competitive with that of a conventional grid connection.

Taking advantage of the cleanest fossil fuel available, gas-to-power technology proved to be not only highly cost effective but also met all the environmental and noise requirements, including stringent limits of NOx

emissions. The modular nature of the generators also meant that the power supply could be easily and reliably scaled up as more of the site came online and grew its energy demands.

The sets were ready to run in 12 weeks, compared to facing a 2 year estimated delay for grid connection.

We also installed 10kV switchgears, transformers and auxiliary equipment that allowed the site to operate completely independent of a grid connection. The deal also covered remote control capability for the equipment as well as 24/7 on-site presence.

## OUR DIFFERENCE

**We have more than 50 years' experience supplying customers with temporary power packages and have built up an excellent track record in gas to power projects as well as specific experience in providing power to data centres in Dublin.**

## WHY AGGREKO?

### Expertise, reliability and fast deployment

The customer required a company that had a proven ability to quickly mobilise equipment and adapt to meet their requirements, our expertise, quality and reliability made us the ideal choice. That doesn't mean that we have any intention of resting on our past successes, however. We have constantly been at the forefront of newer, greener and more

efficient power generation technology, with proven expertise in renewable integration hybrid power plants and battery storage, as well as the development of combined heating/cooling and power systems able to deliver the most cost efficient and environmentally friendly solutions possible.