

CUMMINS AND kW-set Oy FIRST CHOICE TO KEEP FINGRID ALWAYS ON WITH FLEXIBLE POWER DELIVERY



WHERE:

Forssa – Finland.

SUPPLY:

2 x C3750D5 generators
2 x DMC8000 controls
Neutral Earth Resistor

PURPOSE:

To develop a black start application with gensets able to export to the grid.



CUMMINS DESIGNED A BESPOKE STANDBY AND CONTINUOUS POWER SOLUTION FOR FINGRID'S RESERVE POWER PLANT.

When Fingrid needed power for a black start application that could fit a highly complex sequence of operations for their reserve Power Plant, Cummins was the first choice. In collaboration with our channel partner, kW-set Oy, our solution needed to deliver against a number of power requirement scenarios, be space efficient and operate under stringent response times.

We designed and installed a bespoke solution made up of two C3750D5 generator sets, two DMC8000 system automation controllers and a neutral earth resistor. Our cross-functional team worked in close partnership with FinGrid to deliver a design that conveyed power requirements in the most cost effective manner and shortest time line.

This close working style also allowed us to deliver against a last minute customer request to include a customised alternator option, whilst still meeting project commissioning time lines. During the factory acceptance test, the customer asked for a change in the DMC software's philosophy which had to be made in the UK, however tested in the US, all within an 18 hour window. Needless to say, the deadline was met and the customer was impressed that we could deliver in the time using our global network.

Fingrid is responsible for the functioning of the Finnish electricity transmission grid. The transmission grid is the high-voltage trunk network which covers the entire Finland. Major power plants, industrial plants and regional electricity distribution networks are connected to the grid. The electricity power system in Finland consists of power plants, nation-wide transmission grid, regional networks, distribution networks and electricity consumers. The transmission grid managed by Fingrid Oyj encompasses approximately 14,600 kilometers of transmission lines and nearly 120 substations. About 77 per cent of all electricity transmitted in Finland is transmitted through this grid. The project is part of \$1.2 billion investment programme over the next 8 years. Our QSK95 sets have been very successful in the region with a large amount of units sold across various segments.

Cummins offered the necessary flexibility and the strongest commercial offer. The C3750D5 had sizeable project references in the region which the competition couldn't provide, a strong detailed DMC and genset factory acceptance test, and a proven strong portfolio for kW-set's aftersales support. Also, a competitive total cost of ownership across both standby and continuous applications made Cummins the obvious choice.



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