

# Herm Island

## **Application Sheet**

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### Herm Island power distribution system

Herm Island is part of the Channel Islands with only 56 permanent residents, two pubs, one hotel and a handful of shops. The residents depend on the reliable delivery of continuous power provided from the islands generators.

System description: 3x Dawson Keith 415 V 50 Hz generator sets via 2x Cummins 6 CTA 8.3G engines (rated at 140Kw) and 1x Cummins 6B 5.9G1 (rated at 80Kw) running the Island power distribution system continuous operation. The generators are running in automatic mode and the sets are automatically synchronising and load sharing as load demand changes. Traditionally, one gen-set has been used in the winter months moving to the two larger engines during the summer with the third available as back-up when required.

#### System schematics:



#### Scope of delivery:

3x IG-CU, with each unit fitted with IG-PCLSM and IG-COM 1x IG-MU

The control system replaced a phase sensitive system, which was causing lots of problems with power supply reliability. Power failures were a regular occurrence, due to the manual droop control and with many guests staying in the hotel, this became unacceptable.

A clear technical specification was developed and the Herm Island Engineer, Martin Brown, responsible evaluated all synchronising systems and chose ComAp InteliGen controllers supplied with additional communication and support modules. Control & Power Systems Ltd of Scarborough built the control panel for Herm Island.



The project involved removing old equipment from the panel doors and installing the new ComAp controllers and equipment to each of the generator. The system was designed to allow monitoring and whole supply, current, voltage and trend information, all of which was possible the wide range of ComAp monitoring and control software, which was downloaded onto the customer's PC during installation.

#### Customer feedback:

"The customer had reviewed a number of controllers on the market, but choose InteliGen from ComAp as it offered more functionality and use only a single modem for the group of gen-sets." Stuart Noble, Control and Power

"We choose ComAp because it met more criteria than other product on the market and offered us a proven automatic synchronisation capability." Martin Brow, The Herm Island Engineer

The end customer on Herm Island confirmed that this is the first year that they have not had any power interruptions and that they are very satisfied with the control system.

#### The result:

No power cuts in its first full year of operation is great news for both residents and visitors especially when neighbouring islands still face up to two power failures during summer season.

Find more about Herm Island on



#### Photographs from the site:

#### Herm Island



Switchgears



AS04

