



DigiPlex Norway - Fetsund

The DigiPlex Fetsund data centre is a brand new centre with state-of-the-art technology and industry leading energy efficiency features. The data centre has been purpose built for a single customer to meet the digital demands of the future.

The innovative infrastructure incorporates a low energy indirect air-cooling system designed specifically to exploit Norway's cooler climate. This ground breaking solution will enable the scheme to deliver high levels of cooling with exceptionally low power consumption.



Specification Summary

The data centre comprises 4200m² of IT housing white space arranged in data halls on three floors in each of two buildings. These 6m high spaces each have a floor area of 700m² and have been designed for an IT density of 2kW/m². The two buildings are separated by the centre section of the building which contains administration, office and domestic facilities. Goods and personnel elevators are located in the centre section. The infrastructure is designed for 100% concurrent maintainability - no down time.

Construction

The buildings' consist of prefabricated concrete wall panels with distinctive etched façade panels which complement the surrounding area

Floor to ceiling heights of 6m

An eight person capacity passenger and a 2500kg capacity goods service lift

Conditioned power

Each 2 100m² building has 4 (N+1) 2.5MVA prime rated diesel generators

Scalable UPS building to a maximum of 2MVA/1 000m² in 500KVA blocks providing 'diverse' N+N power supply systems to customer modules

N+N electrical supplies to mechanical equipment

Power

8.4 MVA increasable to 12.6MVA

Power and Cooling

N+N 16MVA high voltage supply available to the site

UPS and power distribution equipment located in a central plant, minimising transmission loss

LV voltage generators are located parallel to the main building

configuration in N+1 configuration with individual fuel storage tanks

Self-contained Air-to-Air cooling plant is located externally, adjacent to the data hall

HVAC/cooling

Each 2 100m² building is supported by N+1 redundant Air-to-Air indirect evaporative coolers

Each cooler has a load lopping DX coil to accommodate ASHRAE extreme wet bulb conditions

Expectancy is 100% evaporative cooling - no requirement for mechanical cooling

Fire Protection

De-Ox hypoxic fire prevention

High grade very early smoke detection apparatus in data halls

Monitored automatic smoke detection throughout

Fibre Infrastructure

Carrier neutral host to multiple independent fibre carriers Provision of diverse underground fibre entry points

12 x 100mm fibre ducts for access to two secure carrier connection rooms in each building

Security

On site 24/7 manned security presence

Internal and external advanced security surveillance camera systems

Man trap, intruder detection and card access systems throughout

High grade boundary fencing, plus vehicle trap and pedestrian access point

Car parking external to security fence



FOCUS ON CORE BUSINESS

Capital and resources focused on growing your business, not building and managing data centres



ENERGY EFFICIENT

Energy from renewable sources



SECURE

Designed to be secure and reliable





ISO COMPLIANCE



AWARD WINNING INNOVATIONS

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