

Altnagelvin Area Hospital:

Altnagelvin Area Hospital is an acute hospital which offers a range of services, including a 24-hour Accident and Emergency Department and is one of Northern Ireland's five designated cancer units. It has 481 inpatient beds and 48 day-case beds.

The hospital is currently undergoing a major redevelopment programme including the installation of a new CHP Unit & Diesel Generator, and the relocation of an existing 1MWe CHP unit previously supplied by Edina, to a new plant room as part of the boiler house upgrade.

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A number of suitable candidates was selected by the hospital and their consulting engineer's Varming (part of the multinational Varming International Alliance Group) to tender for the supply of a new purpose built containerised 400kWe CHP unit. This was to be sited externally, behind the boiler plant room. With the location particularly noise sensitive, the container had to be able to

keep noise to a minimum and this was calculated and accommodated for by Edina's design team.

The CHP unit produces electricity to be used on site but also recovers heat from the engine jacket, intercooler, lube oil circuits and the exhaust gases through a shell and tube type Exhaust Gas Heat Exchanger. This low grade hot water is used in the existing hospital infrastructure via a Plate Heat Exchanger, which offers a completely independent system but one which is also complementary to the existing site facilities.



MWM TCG2016V08C supplied by Edina the official distributor for Ireland and the UK, with an electrical output of 400kW

MPHW, Thermal Oil or saturated steam from the heat recovery system are also options with this technology.



Edina manufacturing facility in Lisburn, N. Ireland