



## Overview

### **CASE STUDY:**

Lapland Central Hospital, Rovaniemi

### **PRODUCT:**

PowerKit 12M33G1400/5

### **POWER OUTPUT:**

1400 kVA

### **APPLICATION:**

Critical hospital power

### **PARTNERS:**

Voimalaite Services Oy

Baudouin PowerKit generators were recently installed in the Lapland Central Hospital in Finland, helping to keep a critical healthcare facility stay up and running in one of the world's most remote regions.

The Lapland Central Hospital is located in Rovaniemi in Finland, one of the northernmost cities in the world. This hospital district consists of a public healthcare network that is responsible for the care of 120,000 inhabitants.

In association with local partners Voimalaite Services Oy, Baudouin quickly and efficiently delivered a bespoke solution from the initial manufacturing stage, with a special design process to meet this customers' specific needs.

Two 1,400 kVA diesel generators with Baudouin engines are now installed in the hospital. These twin PowerKit high horse-power engines have excellent step load acceptance performance, making them a great solution for such a critical application. This paralleling application allows both engines to work together, or one to be the backup of the other. The synchronisation time is very short meeting the requirements of the medical facility.

Each genset is housed in a silenced, 72 dB(A) weatherproof canopy made from laser-cut galvanized steel. Welded doors and a roof have also been installed, meeting the highest construction standards. The viewing windows are made from polycarbonate panels which help to further reduce noise emissions. Set-mounted starter batteries and battery cables, plus inboard rubber anti-vibration mounts are provided with the package.

Finally, each genset is equipped with a belt driven radiator, an emergency stop switch and hardwired connection via a gland plate allowing the safe serviceability of the product. A spokesman for Baudouin commented, "Because hospitals are still under unprecedented pressure to provide care for patients across the world, it is Baudouin's responsibility to support them with quality power systems."

This is just one the latest critical applications for Baudouin's PowerKit engines, which are used around the world to support hospitals and data centers, and also to provide power for mining, construction and agriculture. Leading the market, Baudouin's comprehensive range of high horsepower (HHP) engines with the PowerKit M33 and M55 platforms span 700-4125 kVA.

Robust and reliable, the M55 series uses premium engineering for exceptional performance, thanks to Baudouin's unique technologies. It also offers the highest power density in its class, thanks to highly-efficient combustion and high-pressure ratio turbochargers. These Baudouin PowerKit engines also provide exceptional cost-efficiency, with extended mean time between overhauls (MTBO). The high-horsepower engines also offer variable duty cycle and high transient block load capabilities, for uninterrupted power in critical protection situations.

Both the Baudouin M33 and M55 PowerKit series deliver best-in-class fuel consumption and are designed with a high tolerance to varying fuel quality. Baudouin clients can expect to stay up and running, even under the challenging conditions of the environment found in cold countries such as Finland. Over the life of every Baudouin engine, reliability is guaranteed by strong European quality standards, and access to a global service and support network.

This includes trained partners worldwide who can provide aftercare and access genuine spare parts, shipped within 24-hours of ordering. Manufactured using high-quality components, this Baudouin diesel engine is suitable to support both Standby and Prime applications. Baudouin is proud to have delivered a life-saving power solution to the Lapland Central Hospital with the robust and reliable PowerKit range.