

60 MWh_{DC} BESS

EXTREME LATITUDE

UNMATCHED RELIABILITY



**PowerTitan 1.0
BESS**



**PCS/MVS
SC5500UD-MV**



**NORTHERN-
MOST BESS**

SUNGROW HAS DELIVERED ONE OF THE WORLD'S NORTHERNMOST BATTERY POWER PLANTS TO SUPPORT FINLAND'S GRID.

The battery system has a power output of 30 megawatts and a capacity of 60 megawatt-hours. Sungrow is the world's leading manufacturer of battery energy storage systems, with a mission to bring clean energy everywhere – including here in the northernmost regions of Finland.

The solutions enable a stable power grid as renewable energy sources, such as wind and solar power, are increasingly integrated into Finland's electricity network.

Location

Simo, Lapland,
Finland

Systems

24x ST2752UX
6x SC5500UD-MV

EPC

NYAB

OWNER

FRV
AMPTANK

BENEFITS

Located near the newly commissioned Fingrid Simojoki substation in Lapland, the site will initially house 26 Sungrow PowerTitan battery arrays based on lithium ferrophosphate (LFP) cells, delivering 60 MWh of capacity.

The project covers a 0.4-hectare area and will play a vital role in stabilizing Finland's growing renewable energy grid.



PowerTitan 1.0 and the corresponding PCS/MVS containers are installed close together.



PowerTitan 1.0 can be installed back-to-back with no loss of performance.



The SC5500UD-MV is an integrated turnkey solution, including PCS and MVS, built in a 40-foot container.

INTERVIEWS



There were two main reasons why we selected Sungrow. The first was technical reliability. Since Simo is located in Northern Finland, the site operates in challenging weather conditions. While it may not seem extreme by Finnish standards, from an international perspective, it is quite an exotic location.

Sungrow's technology convinced us that it would perform reliably under all conditions.

The second key factor was long-term reliability—specifically, maintenance, servicing, and related support, where Sungrow offered us a very

competitive package. We did not base our decision solely on price but carefully compared different options. In the end, reliability and the overall service package were the decisive factors that led us to this choice

Hannu Koivusalo
Chairman, AmpTank

“Our batteries are delivered pre-assembled in shipping containers, making installation both fast and effortless. We use safe and durable lithium iron phosphate batteries with liquid circulation cooling, ensuring excellent efficiency and a long lifespan.

Sungrow's products are designed to operate in demanding conditions. More than 40 percent of our workforce is dedicated to research and development.

It has been a pleasure to be part of delivering one of the world's northernmost battery power plants in collaboration with our customers.”

Henry Särkisilta
Key Account Manager, Sungrow Finland



ABOUT SUNGROW

Founded in 1997 by Professor Cao Renxian, Sungrow Power Supply Co., Ltd. is a global leader in renewable energy technology. With over 740 GW of power electronic converters installed worldwide, Sungrow is dedicated to clean energy solutions.

Entering the energy storage sector in 2006, Sungrow specializes in integrated ESS solutions, including PCS, lithium-ion batteries, and energy management systems. Its turnkey solutions serve residential, commercial, and utility applications.

With 19 years of growth and zero security incidents, Sungrow is a top ESS provider. In the first half of 2024, it shipped 8 GWh worldwide and was ranked the most bankable ESS and PCS company by BloombergNEF.

ABOUT AMPTANK

AmpTank is a private company founded in 2021, based in Helsinki, Finland. They aim to be the leading independent energy storage company in the Nordic region.

AmpTank is developing battery storage projects for short-term storage as well as long-term storage at multiple locations.

AmpTank is led by energy professionals with decades of experience in the storage and trading of energy.