

ENERGY STORAGE AND OPTIMISATION

# OPTIMISING ENERGY FOR A SMARTER, SAFER, MORE RELIABLE GRID.

Wärtsilä Energy Storage and Optimisation (ES&O) is leading the introduction of disruptive, game-changing products and technologies to the global power industry. We are integrating energy solutions that build a resilient, intelligent and flexible energy infrastructure—**unlocking the way to a sustainable energy future.**



## INTEGRATED SOLUTIONS

Seamlessly coupling energy storage hardware with software through Wärtsilä's GridSolv Quantum plus GEMS Digital Energy Platform. GEMS **leverages cutting edge AI and machine learning technology designed to maximise energy** revenue streams for energy producers and asset owners.



## SAFETY & SECURITY

Pushing the boundaries of international safety and cybersecurity standards. Offering peace of mind by becoming **first in the industry to achieve IEC 62443 cybersecurity certification**, a globally recognized standard in cybersecurity for industrial control systems.



## BANKABILITY

**EUR 4.8 billion (2021) multinational corporation with over 200 locations in 80+ countries.** Headquartered in Helsinki, Finland and publicly traded on Nasdaq Helsinki Stock Exchange.



## RELIABILITY

Top global energy storage integrator within the North America utility market. **Wärtsilä offers an industry leading track record** of timely system delivery, and is committed to safeguarding against product supply uncertainty.

## GEMS Digital Energy Platform

GEMS is a leading smart software platform that manages and optimises energy assets. GEMS integrates and controls individual resources and entire fleets comprising renewables, storage and balancing thermal assets.

GEMS offers a variety of solutions designed to help energy producers maximise earnings on systems and reach sustainability goals.



Learn more at [storage.wartsila.com/solutions](https://storage.wartsila.com/solutions).



## GridSolv Quantum

GridSolv Quantum pairs modular flexibility with minimalist design to ensure reduced lifecycle cost and maximum space efficiency. Each system comprises a battery enclosure, AC and DC outdoor rated cabinet along with interconnection busbars and cables.



### Flexible & Rugged Design

Features numerous system configurations to meet project needs and built to withstand a wide range of environmental conditions.



### Commissioning Ease

Units delivered fully tested with batteries and a cooling system. Minimal field wiring, civil work and trenching required for deployment.



### Safety

NFPA 9540A tested batteries, 60-minute fire rating, fire detection, pressure relief, and multiple options for fire suppression methods.

[storage.wartsila.com](https://storage.wartsila.com)

