

Hitachi Energy and Blykalla announce collaboration on grid integration optimization for next-generation nuclear power technology

- The collaboration combines electrification and grid management software expertise with next-generation lead-cooled advanced modular reactors (AMR) at a time when the demand for fossil-free electricity surges globally
- Meets electricity demand from energy-intensive industries, data centers and society



Jacob Stedman, CEO, Blykalla and Tobias Hansson, Country Managing Director, Hitachi Energy in Sweden

Zurich, June 29, 2026 Hitachi Energy, a global leader in electrification and Blykalla, a global leader in advanced nuclear technology today announced the signing of a Memorandum of Understanding (MoU) to explore a long-term collaboration on enabling the deployment of next-generation lead-cooled advanced modular reactors.

The collaboration brings together Blykalla's advanced reactor technology with Hitachi Energy's expertise in electrification, grid integration, and energy industry software to support the integration of reliable, fossil-free power into future energy systems. Through a MoU, the companies will jointly optimize the electrical and grid integration design for Blykalla's reactor type, covering transmission-level connection, on-site electrical systems, and digital monitoring. It also enables Hitachi Energy to integrate its offering into a standard solution for small modular reactors (SMR).

Focus areas include, but are not limited to, conceptual designs for grid connection and network integration, on-site electrical architecture, digital tools for construction and operation, and a combined offering for customers with the highest, most constant power demands, beginning with data centers and energy-intensive industry.

As global electricity demand accelerates – driven by electrification of industry, transport and society – there is a growing need for stable, carbon-free power sources that complement renewable energy. AMRs can play an important role in delivering fossil-free baseload power to energy-intensive industries and emerging applications, such as data centers.



Tobias Hansson, Country Managing Director, Hitachi Energy in Sweden and Jacob Stedman, CEO at Blykalla, discussing the collaboration in an interview during the Almedalen week, 2026.

"We need reliable and low-carbon power solutions that can be integrated efficiently into the energy system as electricity demand continues to grow across industry and digital infrastructure," said Tobias Hansson, Country Managing Director of Hitachi Energy Sweden. "By combining Blykalla's innovative reactor technology with our expertise in electrification, we can help enable solutions that support industrial growth and the broader energy transition."

"As we move toward commercialization, this collaboration strengthens our ability to deliver complete energy solutions," said Jacob Stedman, CEO of Blykalla. "Hitachi Energy's expertise in electrification makes them a strong partner to help bring our technology to market and positions us to meet the growing global demand for clean, reliable power."

By integrating Blykalla's power generation with Hitachi Energy's solutions for electrical infrastructure, the collaboration aims to accelerate the commercialization and deployment of advanced nuclear solutions across Europe and the United States.

The collaboration reflects the shared ambition of both companies to accelerate innovation and support the transition toward a more sustainable, secure, and resilient energy system.

Advancing next-generation nuclear technology

Blykalla's innovative AMR uses proven lead-cooling technology. With their breakthrough materials innovation, Blykalla utilizes proprietary and patented aluminum alloyed steels that can withstand the corrosive nature of liquid lead, thereby enabling commercialization of lead-cooled fast reactors.

The technology builds on proven concepts, further developed through Swedish research and innovation.

About Hitachi Energy

Hitachi Energy is a global leader in electrification, powering the electricity era to meet the energy demands of today, and the next 25 years. As the energy arm of Hitachi Group, over three billion people depend on our pioneering, mission-critical technologies to power their daily lives. With over a century of innovation, we are addressing the most urgent energy challenge of our time: driving the evolution of the world's energy system to ensure abundant, secure, affordable, and sustainable power for today's generation and the next. With an unparalleled installed base in over 140 countries, we are the grid ecosystem partner across the utility, industry, data center, and transportation sectors. Headquartered in Switzerland, we employ over 56,000 people in 60 countries and generate revenues of around \$20 billion USD.

<https://www.hitachienergy.com>

<https://www.linkedin.com/company/hitachienergy>

<https://x.com/HitachiEnergy>

About Hitachi, Ltd.

Through its Social Innovation Business (SIB) that brings together IT, OT(Operational Technology) and products, Hitachi aims to be a global leader in continuously transforming social infrastructure through digital, contributing to a harmonized society where the environment, wellbeing, and economic growth are in balance.

Hitachi operates worldwide across four sectors – Digital Systems & Services, Energy, Mobility, and Connective Industries – as well as a Strategic SIB Business Unit focused on new growth areas. With Lumada at its core, Hitachi creates value by combining data, technology and domain knowledge to solve customer and social challenges.

Revenues for FY2025 (ended March 31, 2026) totaled 10,586.7 billion yen, with 606 consolidated subsidiaries and approximately 290,000 employees worldwide. Visit us at www.hitachi.com.