
Press release

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MAN Energy Solutions Schweiz AG
Hardstrasse 319, 8005 Zürich
Switzerlandwww.man-es.com

Communications
Roberto Rubichi
P +41 44 278 3325
roberto.rubichi@man-es.com

Partnership with ETH Zurich to Advance Energy Research

Strategic collaboration will drive sector coupling and energy-modelling research; funding for six postdoctoral researchers at ETH Zurich to develop AI-powered energy-system models

MAN Energy Solutions Switzerland and ETH Zurich, the public research university, have launched a strategic partnership to advance research in sector coupling and energy-system modelling. The collaboration aims to address one of the biggest challenges of the energy transition, namely the seamless integration of electricity, heating, and cooling networks.

The core of the partnership comprises funding for six postdoctoral researchers at the ETH Foundation to develop AI-powered energy-system models that will enable deeper technical and economic analysis of European energy markets and infrastructure. The research will also focus on optimising existing models by reducing computational demands, ultimately leading to more efficient and sustainable solutions. A key aspect of the work will involve combining hardware and software innovations to enhance energy-system performance. Research activities will be coordinated by ETH's AI Center and Energy Science Center.

ETH Zurich plays a key role in shaping national and international energy strategies. Researchers at the Energy Science Center and ETH AI Center combine cutting-edge interdisciplinary research with practical applications.

MAN Energy Solutions is contributing its expertise as a technology solutions-provider in the energy sector to the partnership, particularly within the areas of industrial-scale heat pumps and electrothermal energy-storage systems. Looking ahead, the company plans to integrate AI-based energy-management solutions for industrial infrastructure into its portfolio, with a strong emphasis on leveraging digital services to maximise the potential of sector coupling.

Patrik Meli, Managing Director of MAN Energy Solutions Switzerland, said: "We are excited to join forces with ETH Zurich to shape the future of sustainable energy. True innovation happens when we break down silos and approach electricity, heating and cooling as a unified system. Artificial intelligence opens up new possibilities to better understand and optimise these interactions – opportunities we must embrace with boldness and vision. Collaborations like this are key to turning groundbreaking research into real-world solutions."

Joël Mesot, President of ETH Zurich, said: "For research results to make a real impact, ETH relies on strong industry partnerships. This collaboration with MAN Energy Solutions marks an important step toward developing innovative solutions for the future of energy."

About ETH Zurich

Freedom and individual responsibility, entrepreneurial spirit and open-mindedness: ETH Zurich stands on a bedrock of true Swiss values. Its university for science and technology dates back to the year 1855, when the founders of modern-day Switzerland created it as a centre of innovation and knowledge. At ETH Zurich, students discover an ideal environment for independent thinking, researchers a climate which inspires top performance. Situated in the heart of Europe, yet forging connections all over the world, ETH Zurich is pioneering effective solutions to the global challenges of today and tomorrow.



Joël Mesot, President of ETH Zurich, and Patrik Meli, Managing Director of MAN Energy Solutions Switzerland, at the contract signing in the Zurich production halls
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MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.