
Press release

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MAN Energy Solutions SE
Egellsstraße 21, 13507 Berlin
GermanyPostal address:
13507 Berlin, Germanywww.man-es.com

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

MAN Energy Solutions Begin Cooperation on New CCS System Technologies

Aker Carbon Capture and MAN Energy Solutions have signed a technology-cooperation agreement to develop energy-efficient compression solutions for carbon capture and storage (CCS) applications with heat recovery. The agreement supports the companies' joint target to reduce the cost of removing CO₂ emissions from industrial plants around the world.

The cooperation builds on MAN's experience in compressor technology, the integration of system components and their design and delivery, as well as Aker Carbon Capture's proprietary amine technology and efficient carbon-capture process design.

"We are very pleased to formalize our good relationship with MAN Energy Solutions in the form of a technology-cooperation agreement. Through this partnership, we intend to further improve the process efficiency and thereby lower the cost of carbon capture to the benefit of our clients and the environment," said Valborg Lundegaard, CEO of Aker Carbon Capture.

"Carbon capture and storage will play a major role in a decarbonized future. This technology contributes both to reducing emissions in key sectors directly, and to removing CO₂ to balance unavoidable emissions, which is critical with regard to the targets of the Paris Agreement," stated Dr Uwe Lauber, CEO of MAN Energy Solutions. "As experienced forerunners in the CCS field, we will build on our well-founded knowhow and work together on new, energy-efficient, environmentally-friendly CCS-technology solutions."

With CCS, captured CO₂ is compressed before being liquefied and transported to a permanent-storage location. The two companies aim to develop carbon capture solutions that require less energy. The transfer of heat is key for CO₂-capture plants' improved, overall power-consumption with MAN Energy Solutions able to recover heat from its compression systems. Hence, the steam generated will cover nearly 50% of the power demand for Aker Carbon Capture's capture plant.

The technology-cooperation agreement will run for seven years and forms the basis for project deliveries to carbon-capture plants. Solutions will be applicable for large facilities, such as the Heidelberg Cement Norcem cement plant in Brevik, Norway where Aker Carbon Capture will deliver a carbon-capture plant using the company's patented and HSE-friendly CCS technology. Subject to parliamentary approval of the funding, this will represent the first time that CCS will have been deployed at scale at a cement factory anywhere in the world.

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.

About Aker Carbon Capture:

Aker Carbon Capture is a pure play, carbon-capture company with solutions, services and technologies serving a range of industries with carbon emissions, including the cement, bio and waste-to-energy, gas-to-power and blue hydrogen segments. Aker Carbon Capture's proprietary, carbon-capture technology offers a unique, environmentally-friendly solution for removing CO2 emissions.



For further information, please contact:

Roberto Rubichi +41 442783325
roberto.rubichi@man-es.com

Ivar Simensen +47 46302317
ivar.simensen@akerhorizons.com