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## ***Alstom's Chilled Ammonia technology for Carbon Capture and Storage to be extensively tested at new centre in Norway***

### **Inauguration of world's largest CO<sub>2</sub> Capture test facility at Technology Centre Mongstad, Norway**

Norway's Prime Minister Jens Stoltenberg inaugurated the world's largest CO<sub>2</sub> capture test facility – partially based on Alstom's Chilled Ammonia technology – at the Technology Centre Mongstad (TCM) on May 7, 2012. Alstom is one of two suppliers selected to build and test CO<sub>2</sub> capture facilities, which are located near Bergen, by TCM's partners Gassnova, Statoil, Shell and Sasol.

*"This is a true milestone and we are excited to participate in the demonstration plant for the Chilled Ammonia Process at Mongstad. It is of outmost interest, that at TCM, our technology can be tested on flue gas both from a gas fired power station as well as on industrial off gas from the nearby refinery. This gives us valuable experience to improve and to expand the use of this technology even further,"* says Patrick Fragman, Vice President Environmental Control Systems and Carbon Capture & Storage at Alstom.

Following an initial start-up period Alstom, together with TCM, will carry out a 12 to 18 months testing and operations programme commencing during summer 2012. It is expected that new developments and improvements will emerge throughout the test period. Alstom believes that TCM will be an attractive site to validate potential improvements even beyond the scheduled test period.

*"With the TCM inauguration Alstom clearly makes a footprint as an important part of this unique development in Norway and we are confident that this will develop into a global reference point with the realisation of full scale CO<sub>2</sub> Capture and Storage facilities in the future,"* says Eric Staurset, Alstom's Country President in Norway.

Based on a successful pilot (5 MW, We Energies, US) as well as a validation plant operation (54 MW, AEP Mountaineer, US), the Chilled Ammonia Process (CAP) has demonstrated its potential to be a world class technology. The Alstom validation program has confirmed expected performance levels, without any detrimental environmental impact. Alstom offers a full portfolio of the most advanced carbon capture technologies for power and industrial applications, and is committed to 16 pilots and large scale Carbon Capture

and Storage (CCS) projects with various major utility and industrial partners throughout the world.

#### **About Alstom**

*Alstom is one of the world's leaders in power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, provides turnkey integrated power plant solutions and associated services for all thermal (coal, nuclear, gas...) and renewable (hydro, wind, solar...) energy sources. It offers a wide range of solutions for power transmission, with a focus on smart grids. The Group employs over 90,000 people in around 100 countries, and had sales of €21 billion in 2010/11.*

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