

## **Fighting Climate Change: Alstom - Dow Technology Selected for Industrial CCS demonstration facility in France**

The Dow Chemical Company

Alstom and The Dow Chemical Company (NYSE:DOW) are pleased to announce that the EDF Group has awarded a contract to Alstom to develop, construct, operate and test in partnership an industrial demonstration facility to capture CO<sub>2</sub> at the Le Havre coal-fired electric power plant in France.

The objective of this innovative project is to demonstrate the operability and efficiency of post-combustion CO<sub>2</sub> capture utilizing the Advanced Amine Process jointly developed by Alstom and Dow.

Amine-based technologies are already widely used in a number of gas treatment applications in the chemical and hydrocarbon sectors. The Advanced Amine Process to be tested at Le Havre has been specifically developed to capture the CO<sub>2</sub> emitted by burning coal, oil or gas. The demonstration facility will help to verify the optimized performance of this advanced technology, particularly with regards to energy consumption and flexibility in use within an industrial setting.

The project is scheduled for start-up by 2012 and is partly funded by French governmental body ADEME (The French Environment and Energy Management Agency). The project program includes execution, testing, evaluation and validation phases of the CO<sub>2</sub> capture unit at the production site. The industrial demonstration facility of Le Havre represents an essential step for Alstom and Dow in the development of competitive solutions for the capture and storage of CO<sub>2</sub>.

### **About Alstom**

Alstom is at the forefront of carbon capture technology development. Since 2006, as part of its multi-product strategy, Alstom has announced agreements to test CO<sub>2</sub> capture technologies with AEP, Statoil, Vattenfall, E.ON, Total, The Dow Chemical Company, PGE Elektrownia and Transalta. Alstom is mobilising hundreds of employees and has invested hundreds of millions of dollars in support of its goal to make carbon capture technology commercially available within six years. To date, Alstom has started operation at six CO<sub>2</sub> capture pilot projects, with EPRI and We Energies in Wisconsin, USA, AEP Mountaineer in the USA, E.ON in Sweden, Vattenfall in Germany, Total in France, and Dow in the USA. Alstom is a global leader in the world of power generation 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, and provides turnkey integrated power plant solutions and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind. The group employs some 80,000 people in 70 countries, and had orders of  $\hat{?}$  24.6 billion in

2008/09.[www.alstom.com/power](http://www.alstom.com/power) [1]

## About EDF

The EDF Group, one of the leaders in the European energy market, is an integrated energy company active in all businesses: generation, transmission, distribution, energy supply and trading. The Group is the leading electricity producer in Europe. In France, it has mainly nuclear and hydraulic production facilities where 95 % of the electricity output is CO<sub>2</sub>-free. EDF's transmission and distribution subsidiaries in France operate 1,285,000 km of low and medium voltage overhead and underground electricity lines and around 100,000 km of high and very high voltage networks. The Group is involved in supplying energy and services to more than 38 million customers around the world, including more than 28 million in France. The Group generated consolidated sales of € 66.3 billion in 2009, of which 49 % in Europe excluding France. EDF is listed on the Paris Stock Exchange and is a member of the CAC 40 index.[www.edf.com](http://www.edf.com) [2]

## About Dow Oil & Gas

Dow Oil & Gas is committed to maximizing value for our customers by offering innovative, customized solutions tailored to the ever-evolving needs of the oil and gas industry. Backed by the proven resources of The Dow Chemical Company, Dow Oil & Gas offers advanced chemical innovation, intimate industry knowledge and exceptional service. More information can be found at [www.DowOilandGas.com](http://www.DowOilandGas.com) [3].

## About Dow

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### Links:

[1] <http://www.alstom.com/power>

[2] <http://www.edf.com/>

[3] <http://www.dowoilandgas.com/>

[4] <http://feedproxy.google.com/~r/dow/prodbusnews/~3/tM3CgbyUmrY/20100525c.htm>