
Alstom and Dow Chemical to develop carbon capture plant

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It is reported that Alstom and Dow Chemical Company will design and build a plant to capture CO₂ from the flue gas of a coal fired boiler at a Dow owned facility at South Charleston in West Virginia.

Alstom will design, build and operate the plant, which is expected to capture around 1,800 tons a year of CO₂ from flue gas using Alstom's and Dow's amine technology. Dow will provide the site and utilities, as well as the chemicals and its amine technology for this project.

The pilot plant is expected to come online by the third quarter. All the coal used in the pilot will be sourced locally in West Virginia.

In 2008, Dow and Alstom entered into an agreement to develop advanced amine technology for CO₂ capture. Currently, Alstom is working with Dow to develop a commercial offering of an advanced amine based scrubbing technology for industrial sources that produce exhaust or flue gases containing CO₂ and high levels of oxygen. The new process will reduce the amount of energy required for CO₂ separation and capture. The West Virginia pilot plant will validate this new technology.

(Sourced from forbes.com)

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