

Process manufacturing industry uses AspenTech software to combat global warming

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Aspen Technology, Inc., a leading provider of software and services to the process industries, today outlined how engineers and researchers across industry, academia and government are using its aspenONE CO2 capture simulation software to fight global warming.

The CO2 capture models within the aspenONE Process Engineering software are accelerating efforts to meet the increasing adoption of government reduction mandate requirements, while supporting clean energy development.

Current users of the CO2 capture models include the Research Institute of Innovative Technology for the Earth (RITE), The Massachusetts Institute of Technology ('MIT'), University of Texas at Austin, Cansolv Technologies, American Electric Power, Rentech and others.

AspenTech's CO2 capture models allow cost-effective design and optimization of manufacturing processes that separate CO2 before it is emitted. By neutralizing the impact of this gas, process manufacturers can better achieve their operational excellence goals through environmental regulation compliance, and gain a competitive advantage.

Most recently, AspenTech released out-of-the-box modelling functionality for coal gasification, bio-fuels, and other alternative energy sources in its new aspenONE V7 Process Engineering solution suite.

Recently implemented state-led initiatives such as the Regional Greenhouse Gas Initiative (RGGI) and others such as the Western Climate Initiative (WCI) and the Midwestern Greenhouse Gas Accord (MGGA) are designed to establish the nation's first mandatory, market-based solution to reduce greenhouse gas emissions.

Following the European Union's Emissions Trading System (ETS) model, US states are expected to cap emissions output and sell allowances through auctions. Proceeds from the auctions are intended to support the development of renewable energy and other clean technologies and foster innovation in the clean energy economy to create green jobs.

AspenTech has been a leader in the development of alternative energy modeling tools since the late 1970s, when a coal gasification modeling project of The Massachusetts Institute of Technology funded by the US Department of Energy resulted in the founding of Aspen Technology. Since then, government, academia and process manufacturing companies have actively used AspenTech's engineering modeling solutions to address and optimize energy management and alternative energy initiatives.

Randall Field, Executive Director - Conversion Research Program, MIT Energy Initiative said, 'Using AspenTech's software we are able to identify and analyze innovative ways to reduce the parasitic energy loads and costs associated with carbon dioxide capture. With the help of advanced modeling solutions in aspenONE we are well-equipped to investigate, innovate and assess alternative technologies for driving down carbon dioxide emissions while supporting the broader issues of energy security and energy costs.'

Mark Fusco, CEO, AspenTech said, 'Our continued strong commitment to R&D funding keeps AspenTech at the forefront of innovation in finding newer and better ways to meet today's energy challenges. We are working in lock-step with the world's leading engineers and researchers across government, academia and the process industries in the search for promising new alternatives for emissions controls and clean energy sources.'

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