

VAXJO, Sweden, December 6, 2001 - Alstom Power has licensed CEI's EnSight software to visualize CFD results used in designing air pollution control systems.

Alstom Power develops, sells and installs advanced systems and equipment to remove dust, sulfur dioxide, nitrogen oxide and other environmentally hazardous substances from process gases. Without Alstom's systems, these substances can contribute to acid rain and the formation of photochemical oxidants such as ozone.

Flow-feature extraction within EnSight allows Alstom engineers to automatically visualize velocity and temperature profiles for processes such as reheating systems, injection of ammonia from AIG (Ammonia Injection Grid), mixing of hot gases, and distribution of ammonia upstream from reactors.

"With EnSight you have the flexibility to create section planes, where you can study different parameters such as NH₃ concentration, NO_x concentration, flow velocities and temperature profiles, and pressure loss," says Ali Tabikh, Alstom research engineer. "And the software allows us to show our customers how all these interactions affect the NO_x removal efficiency and NH₃ slip."

EnSight files can be exported to EnLiten and EnVideo, free media players that allow interactive collaboration and communication of complex visualizations over the Internet or on CD.

Alstom is the global specialist in energy and transport infrastructure. The company serves the energy market through its activities in the fields of power generation, power transmission and distribution, and power conversion. It serves the transport market through its activities in rail and marine engineering.

CEI has corporate headquarters in Apex, N.C., and authorized distributors around the world. In addition to its EnSight, EnSight Gold, EnVideo and EnLiten software, CEI provides consulting services to engineers and scientists from organizations that use computational methods for research, product design or product refinement.

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