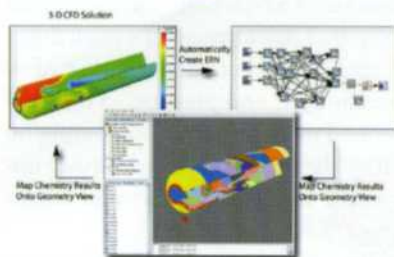


scribers. And the State of Connecticut will benefit from the environmentally friendly, zero-emission solution," said Andy Marsh, Plug Power's president and CEO. "Plug Power applauds the work done by T-Mobile and the CSC to successfully implement fuel cell technology into their infrastructure, driving further commercialization within the industry and in the State of Connecticut, which is already a hub for hydrogen technology."

### Reaction Design launches ENERGICO™



Reaction Design, the clean technology chemistry leader, announced the release of ENERGICO™, a revolutionary new simulation package for the gas turbine industry that uses the power of detailed

chemistry to accurately model combustion in a virtual environment. By using ENERGICO to model and test new combustor designs, companies can save millions in gas turbine development costs and substantially reduce time-to-market when compared to traditional physical prototype testing.

ENERGICO is a complex system design simulation tool that works by applying detailed chemistry technology to solve the toughest gas-turbine engineering problems related to emissions reduction and stability. The product enables virtual simulation of combustion stability so engineers can pinpoint and assess the causes of lean blow-off, a major issue in gas turbine design, which is impossible to accurately predict without a product like ENERGICO. Other modeling tools such as computation fluid dynamics (CFD) software do not support the level of chemistry detail necessary to model lean blow-off, and are much more time intensive while providing less accuracy and modeling stability.

"In field trials using real-world customer design problems, ENERGICO solved critical combustion issues substantially faster than with conventional modeling, test and debugging methods," said Bernie Rosenthal, CEO of Reaction Design. "ENERGICO delivers higher quality predictions across a much broader operating envelope, including diverse fuel sources and variable environmental conditions and usage scenarios. We believe this technology will be a catalyst in advancing the use of sustainable fuels and reducing environmental impacts in both stationary and transportation turbine engines."

ENERGICO can effectively predict the effects of multiple alternative/opportunity fuels, including biofuels, syngas and blast-furnace gases, on combustors without the need for a physical prototype. The platform also models environmental variables and can simulate under a variety of operating conditions – from tropical jungles to the arctic tundra. These abilities increase the robustness of gas turbines and enable service teams to investigate the causes of turbine downtime in a virtual lab setting. Used to its full potential, ENERGICO reveals details about the combustion process not previously visible without requiring a specialized understanding of complex kinetics. This results in fewer, better-directed experimental tests to validate design and process. **f**



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