

**FOR IMMEDIATE RELEASE****TIAX Awarded DOE Contracts to Improve Energy Efficiency**

*Funding will continue development of innovative heating and refrigeration technologies to encourage widespread market adoption*

**December 13, 2005 (Cambridge, MA)** – TIAX, a leading collaborative product and technology development firm, today announced that it has been awarded two contracts by the U.S. Department of Energy (DOE) to study and further develop new technologies to enhance energy efficiency. Through these DOE projects, TIAX hopes to play an instrumental role in advancing two key technologies: combined heat and power (CHP) systems and air-cooled condensers.

"We are pleased to continue our partnership with the Department of Energy and applaud the agency's leadership in advancing cleaner and more efficient technologies for the American people," said Kenan Sahin, CEO and Founder of TIAX LLC. "TIAX has a long and successful record of working with government agencies and private companies to develop innovations that result in greater energy savings and a healthier environment. Through these latest projects, we hope to have a direct impact on improving energy efficiency in key systems throughout the United States."

As part of the first contract, awarded through the DOE's Distributed Energy Program and the Oak Ridge National Laboratory, TIAX will provide a national assessment of the energy-savings potential for Combined Heat and Power (CHP) systems in supermarkets. CHP systems generate electricity at or near the point of use and recover heat from the generation system to serve other building loads. In supermarkets, CHP systems can provide electricity, space heating, space cooling, service water heating, and dehumidification, and can assist display-case refrigeration. The findings from this evaluation could be instrumental in determining the feasibility of CHP systems within the commercial building market.

Under the second contract, awarded through the Small Business Innovation Research (SBIR) program, TIAX plans to develop a technique to improve the overall efficiency of air-cooled condensers. The company will leverage its experience in nanotechnology to develop heat exchangers with tiny fibers to improve the fluid/air heat exchangers in AC and refrigeration systems. During Phase I, TIAX will test the ability of these "nanofibers" to increase heat transfer in an advanced enhanced-fin heat exchanger assembly. Application of this approach to AC and refrigeration systems should improve efficiency, thereby reducing carbon emissions and decreasing consumption of electricity.



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TIAX has a long history of advancing energy efficiency by assisting both global companies and government agencies in bringing new energy saving technologies to the market. Since 2002, the company has been awarded numerous projects through the DOE. In addition, TIAX has received 27 Phase I contracts and 11 Phase II contracts through the SBIR program. The SBIR program was established in 1982 to provide increased opportunities for small businesses to meet federal research and development needs, increase employment, foster and encourage participation in technological innovation by socially and economically disadvantaged persons, and increase private-sector commercialization of innovations derived from federal research and development.

### **About TIAX LLC**

TIAX LLC (pronounced Ty-ax) is a leading collaborative product and technology development firm that accelerates innovation to help its clients create an impact in the market-and in people's lives. We integrate business, industry, and hands-on technology expertise to transform ideas into products and problems into solutions. Formed out of Arthur D. Little's Technology & Innovation business, TIAX ([www.tiaxllc.com](http://www.tiaxllc.com)) builds on more than a century of breakthrough innovation and client success using collaborative R&D. TIAX was selected as a Technology Pioneer 2003 by the World Economic Forum and is ISO 9001 certified with more than 50 research and development laboratories.

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