Dagher Engineering Wins ACEC-NY Diamond Engineering Excellence Award for Sustainable Cooling System

New York, March 23, 2009 – Dagher Engineering has received the American Council of Engineering Companies' – New York (ACEC-NY) Diamond Award for engineering excellence for the design of a compressor-free geothermal cooling system at the e-House, an experimental project located in upstate New York. The Diamond award is ACEC-NY's top award for the category of Building and Technology Systems.

Air-conditioning is the largest single energy drain on residential and commercial resources. Dagher Engineering's compressor-free geothermal cooling system for the e-House in upstate New York can be powered by a single solar panel significantly reducing energy consumption. Dagher Engineer's innovative sustainable cooling system at the e-House could revolutionize the way buildings are chilled.

By eliminating the energy-consuming compressors that have been the basis of air-conditioning design for the past century, the Dagher cooling system makes it possible to have highly effective air conditioning that is also low on energy consumption. The system implemented at the e-House demonstrates to the engineering community and developers alike that a high degree of sustainability does not have to come at a high price.

"This system is revolutionary, not only because it uses a small amount of power, but also because it costs significantly less to install than a traditional air-conditioning unit. These two factors make this system a true advance in the science of building systems," says Elias Dagher, the firm's founder and Senior Principal. Dagher Engineering is currently in the process of developing the second generation of this technology, which is predicted to have zero reliance on fossil fuels.

Because this innovation is energy efficient and cost effective, it will undoubtedly prove to be a popular solution for the general public. Unlike many other “green” solutions, this system does not require significant capital, is relatively easy to operate and maintain, and consumes a fraction of the energy required to operate currently available systems. The combination of all these advantages has gigantic global implications, and will help alleviate the fast-growing use of fossil fuels that is so detrimental to our environment.

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Founded in 2000, Dagher Engineering is an award-winning firm internationally recognized for its innovations in the field of engineering design. The firm actively promotes several programs and designs intended to reduce and reuse energy and water resources.