

BUSINESS AFFAIRS  
FACILITIES PLANNING AND MANAGEMENT

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July 21, 2011

AASHE STARS Staff  
213 ½ N. Limestone  
Lexington, KY 40507

RE: Innovation Credit 2

Dear Colleagues,

In compliance of the protocol for submission of STARS credits under the referenced category, I am submitting this letter in affirmation of our innovative Geothermal District Energy System.

This is to confirm the substantial completion of the first-phase of our district-scale geothermal heating and cooling project.; with installation of 550 miles of heat exchange tubing, 1,800 bore holes, construction of our District Energy Station North, installation of two 2,500 ton York heat-pump chillers, and completion of six miles of hot water supply and return distribution pipes among the Northern tier of buildings on our campus.

At this time, we have completed test runs of the system, are fine-tuning operational adjustments and preparing for the coming heating season; we will dedicate the start-up of this technology with the beginning of the academic year. Once the heating season arrives, we will decommission 2 of our coal-fired boilers for district-heating of the campus. This will save us \$1million net in annual operating costs and reduce our CO<sub>2</sub> equivalent emmissions by more than 40,000 metric tons annually.

If you have questions or need additional information, please let me know.

Sincerely,



James Lowe  
Director of Engineering, Construction and Operations  
Facilities Planning and Management

P.S. As a footnote, this project has led to the creation of 2300 jobs in support of this installation which has occurred over the last 18 months.