

FCR 8

Office of the President
February 21, 2020

Members, Board of Trustees:

IMPROVE CENTER FOR APPLIED ENERGY RESEARCH FACILITIES CAPITAL PROJECT
(LABORATORY BUILDING #1 CHILLER REPLACEMENT)

Recommendation: that the Board of Trustees approve the initiation of the Improve Center for Applied Energy Research Facilities Capital Project (Laboratory Building #1 Chiller Replacement).

Background: Pursuant to Administrative Regulation 8:2, any capital project with an estimated scope of \$1,000,000 or more must be approved by the Board prior to initiation.

This Project will replace the chiller unit in Laboratory Building #1 at the University's Center for Applied Energy Research (CAER). Laboratory Building #1 was constructed in 1975 and the original chiller was upgraded approximately 20 years ago. This chiller is water-cooled and uses a roof-mounted cooling tower that also will be replaced.

The existing chiller has deteriorated and can no longer be serviced or maintained in working condition to support the building's infrastructure systems. As the only available chiller, the appropriate temperature cannot be maintained in the research facility. The current unit will be replaced with two 225-ton air-cooled chillers that will meet the current building load and provide 10 percent additional capacity. Installing two chillers also will provide flexibility should one chiller go offline as the remaining chiller would have 60 percent of the required capacity to temporarily support the building.

This \$1,500,000 project, authorized by the 2018 Kentucky General Assembly, is well within the total legislative authorization of \$20,000,000 and will be funded with agency funds.

Action taken: Approved Disapproved Other _____



Imagery Source: Pictometry (Spring 2016)
Created by UK Facilities Information Services
GeospatialRequests@uky.edu
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