WASHINGTON, DC

BREADTH TOPICS

ELECTRICAL

With the addition of a combined heat and power plant, there will be an additional electrical supply to the facility. The exploration of this additional supply will be used as an electrical breadth. Ideally, this could drastically reduce the outside energy use required by the Smith Center. The amount of electrical energy generated by the new CHP system could have a large effect on building cost and therefore could offset an increase in space by the CHP system.

CONSTRUCTION MANAGEMENT

To analyze the time and cost of construction of implementing the proposed alternatives, a construction management breadth will be explored. Time is a large factor when it comes to construction which in turn relates to the cost. With a shorter construction period, there will be less labor charges as well as a sooner move in time both of which will reduce overall cost. Because this is used for athletic events and is an existing building, the schedule should take into account the seasons of the respected sports.