We are asked to spend no more than 5% of annual budget ($ 8 million) to make an improvement to campus. My team designed to take the advantage of the anteroom. We design a self-energized heating system. The system contains electricity generating system and heating control system. It is able to generate energy to heat.

Constraints:

No more than 5% of annual budget ($ 8 million)

Transform all the anteroom of campus building

Criteria:

Shouldn¡¯t change main building structure of buildings

Durable

Cheap

Efficiency

Safe