

01. Objective

Objective: The goal is to choose whether to use a central or a distributed hot water system

Stakeholders: the contractor, the owner, future tenants

Collaborators: Doanh Do

02. Alternatives

Central Plant Heating Hot Water System

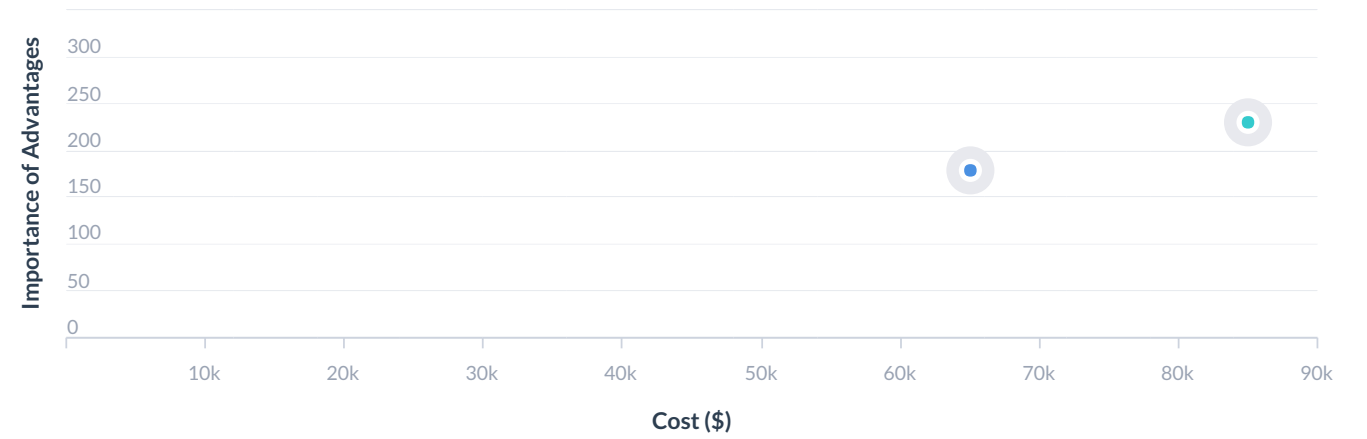
Distributed Heating Hot Water

03. Factors & Criteria

Factor	Must Criteria	Want Criteria
Sq ft of mechanical space required		the less the better
Access for maintenance	must have access	
Quantity of broiler and standby		the less the better
Ability to do broiler stack heat recovery		the more efficient the better
Pumping energy		less energy the better
Construction schedule		the shorter the better

04. Analysis

Importance of Advantages vs. Cost Graph



Alternative	Importance of Advantages	Life Cycle Cost
1 Central Plant Heating Hot Water System	178	\$65,000.00
2 Distributed Heating Hot Water	230	\$85,000.00

05. Decision

Selected Alternative	Importance of Advantages	Life Cycle Cost
Central Plant Heating Hot Water System	178	\$65,000.00