

# Energy Demanded



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# Update

At this point we have reconsidered our project given the data. We have created new objectives that correspond more to Energy Demand, instead of Supply.

Our presentation will consist of

- Updated Objective Modules
- Cost Analysis
- Web Diagram
- Entity Relation Diagram
- Relational Schema

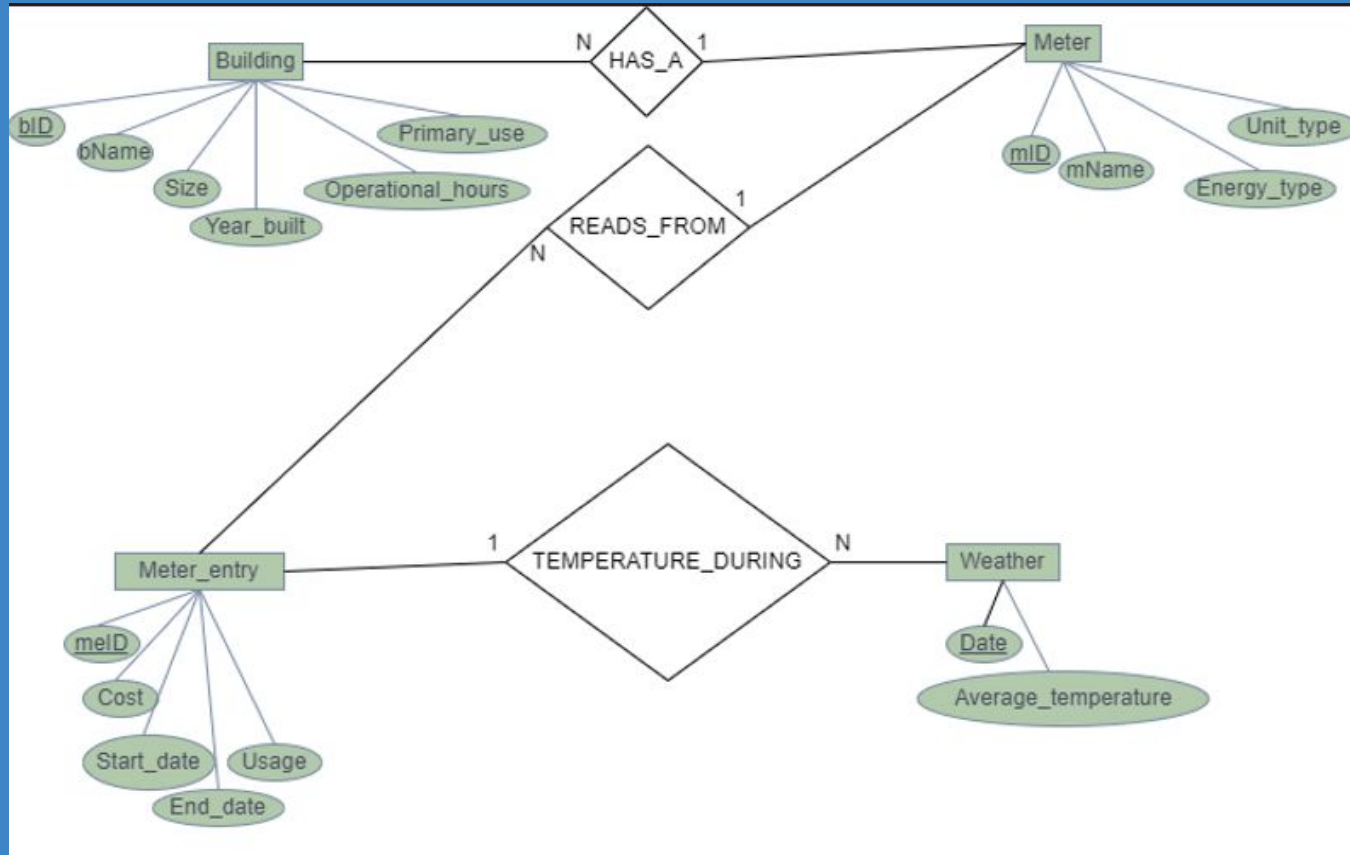
## **Objective of the Module**

- 1) What is the energy demanded for each building per square foot?
- 2) Do hot or cold months require more energy for a specific building. If so, by how much?
- 3) What are the most significant characteristics that correspond to the energy demanded of each building on the TCNJ campus (example: year built, use details, building operational hours)?

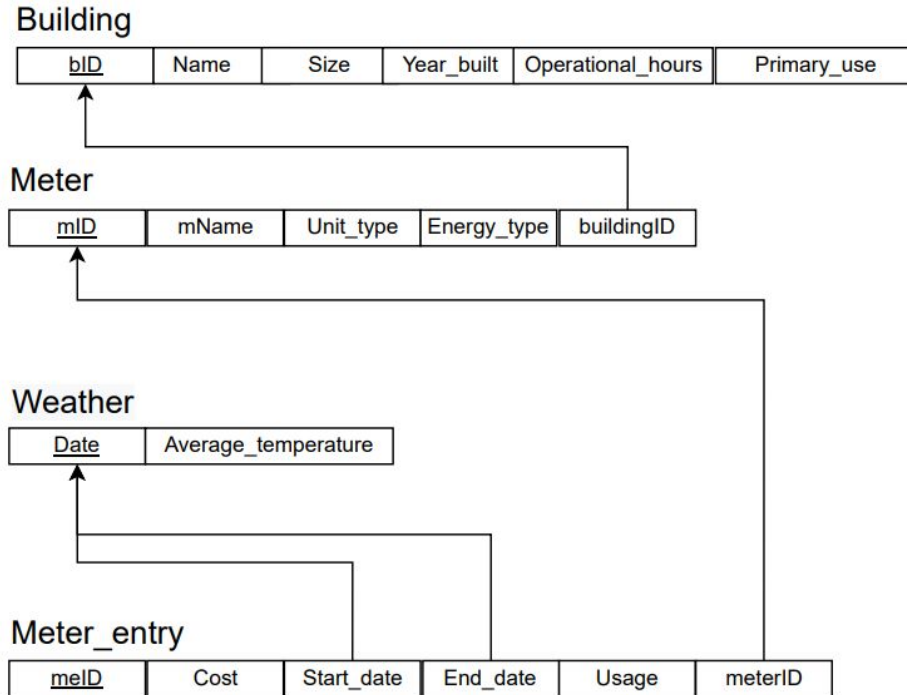
## **Cost Analysis**

Initially one of our objectives is to determine the efficiency of buildings across campus. However, we could not determine such factors with the data given. As an alternative we have chosen to focus on an analysis of daily cost of running a building including during different seasonal weather patterns. We will use the cost per kilowatt hour of energy demand to determine the cost of buildings per day using operational hours as a metric for each building.

# Entity Relationship Diagram



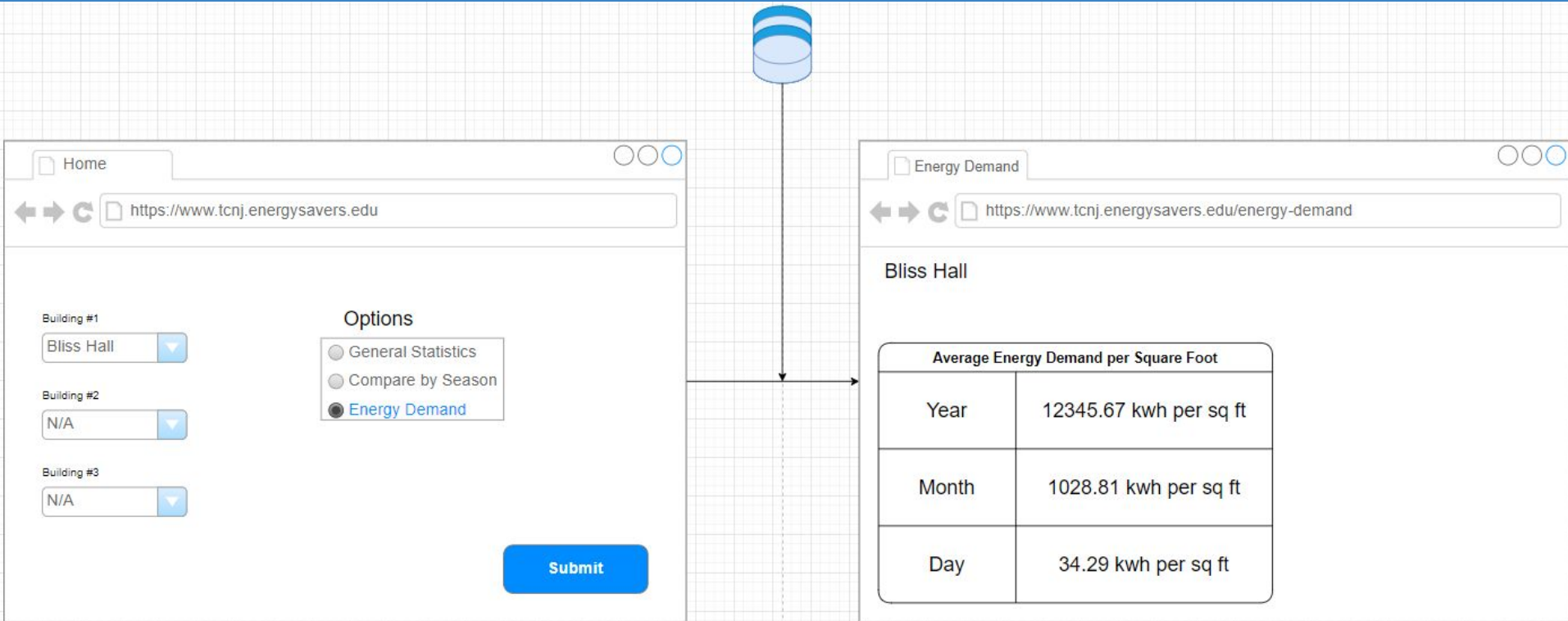
# Relational Schema



## Database Information:

- Database size: **5000**  
(Degree days, buildings, meter entries, meters)
- Most popular type of search: **Energy Demand**
- Average number of searches per year: **40**

# Energy Demand View Diagram



# General Statistics View

