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DAT6 – HW2

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**What is the question you hope to answer?**

I want to know which of my measured sites are performing well against my power models, performing similarly, performing poorly.

How to integrate multiple yet similar data sets together (100+ sample feeds)?

How do sites perform in similar weather conditions or similar building constructions?

What events may be affecting my models that are not accounted for. IE. Binary, news, etc.

Stretch goal: I want to know when my HVAC systems should trigger on and off based on weather, energy pricing and ambient temperature of the conditioned space.

**What data are you planning to use to answer that question?**

Exisiting power data

Streaming power data

Local weather - noaa api

weather channel api

HVAC Integration - BayWeb API

Twitter API

**What do you know about the data so far?**

I know the overall energy of each building under study and have a general baseline of what the typical energy behavior is.

**Why did you choose this topic?**

This is the next step for the projects we are looking to complete at work. We need to look into more effective ways to evaluate, manage and compare large amounts of data with minimal manpower.

In general I am looking for a project that will show me the wide range of tools that I may be able to leverage going forward.