

PM table to json converter

SEED project

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1 Matching and mapping

1. SEED and PM

The following description of the connection between Portfolio Manager and SEED platform is summarized from <https://cc.readytalk.com/cc/playback/Playback.do>

For commercial building benchmarking, the city government need to acquire energy consumption data of buildings in the city. As a result, there are requirements to collect building energy consumption information for buildings greater than 5000 sq. ft. The city will create a list of buildings they need to collect energy information from. The owners of the buildings in the list will report the energy consumption data through the Portfolio Manager developed by U.S. Environmental Protection Agency (EPA) and share the report with the city. The city can government can download the data from the Portfolio Manager site into one big folder.

In order to hold and process the large amount of data, a database is needed. DOE developed the SEED platform to assist cities to manage the building energy consumption data. The city government would import 1) the list of buildings into the SEED database, and 2) import the energy consumption data from the portfolio manager. The two sets of data just imported would go through a process called **“Map Fields” (Mapping)** which standardized the fields of the two data sources. Then **“Matching”** (using fuzzy logic) is performed between the two so that the building is associated with its energy consumption records. Then the database is ready to carry out analysis.

In the “Mapping” process, the program will predict based on the original name of the excel sheet user uploaded (my understanding) and the user will confirm which field of the original uploaded data is associated to the standard database field.

Other sources of data started to be incorporated into the SEED platform: GreenButton Data (short interval energy consumption data) and Audit Data (Procedures For Commercial Building Energy Audits).

Building list: the fields in the building list include: UBI(??), GBA(Gross Building Area), BLDGS, Address, Owner, City, State, Zip, Property Type, AYB_YearBuilt. PM data has fields such as: Property ID, Property Name, YearEnding, PropertyFloorArea, Address 1, Address 2, City, ... Although the two might both have ID field, they might not be related. The suggested field for matching the building list with the PM data is with Address (“Address Line 1” in SEED). In general, there are four suggested fields

that improve the matching result: Tax Lot ID, PM Property ID (“Property ID” field in PM), Custom ID and Address Line 1.

References