**Making comparisons between CEA output and ABM input data**

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|  |  | ABM Muaafa | CEA Sabine | Comments |
| RADIATION DATA |  |  |  |  |
| Location of data |  | C:\Thesis\2-Utility\_Death\_Spiral\Lancaster\data |  | From the CEA, Don’t use radiation\_10 etc files  Use |
| Excel file |  | Buildings-data.csv  Contains only building IDs and rooftop areas.  They use the NREL PVWatts calculator to find the PV generated on those rooftops | Yearly\_radiation.csv has all roofs separately – need to sum everything up.  Or, individual insolation files exist in the json format | Need to match ‘srf’ in yearly\_radiation with onsolation files, multiply each roof surface area with insolation to get actual insolation on that surface and then add everything up to get insolation |
|  | Building Ids | Column 1: 0 to 51540 | Z0030 etc...start with ‘Z’ |  |
|  | Rooftop Areas | Column 2: in square metres |  |  |
|  |  |  |  |  |
| Excel file  roofCat\_buildingType\_Dist | 19 building types | Probabilities of building type having a particular size of roof |  |  |
| Excel File  Roof\_category | 0 to 6  7 roof types based on size | Sizes of roofs  Put into different categories based on sizes and linked to building types |  |  |
| Excel File  Hourly\_demand\_PB |  | Hourly Demands based on type of building  VERY GENERAL | CEA will have much better granularity of this data  Individual building data  Will need to put it in one file |  |
| Excel file  roofCat\_solarType\_Dist |  | Probabilities of the size of PV system which will be installed, linked to the roof categories (0 to 6) |  |  |