Roof of 6 Turvey Rd, Blacktown

4.6 kW system

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | SunSpoT | Python | SunSPoT | Python | Python |
|  | Base case | copying user inputs from SunSPoT and assuming Origin flat rate NSW (Endeavour) | Adapting both to include no smart meter, and a bill of [{"total": 500, "start\_date": "2019-07-01", "end\_date": "2019-09-30"}], and tariff of Origin Flat Rate NSW (Endeavour area) | | Using updated location, AC and dryer use |
| PV generated | 7103 | 7103 | 7103 | 7103 | 7103 |
| PV per kW | 1542 | 1544 | 1542 | 1544 | 1544 |
| Bill savings | 1002 | 980 | 708 | 696 | 710 |
| PV to grid | 5141 | 4912 | 6359 | 6423 | 6346 |
| PV self-consumption | 1961 | 2190 | 744 | 679 | 757 |
| FiT payment | 571 | 393 | 508 | 513 | 507 |
| New bill | 372 | 971 | 87 | 79 | 84 |
| Old bill | 1374 | 1951 | 795 | 775 | 795 |

Next: comparing output load profiles at this stage

Initial attempt; quite different both in magnitude and shape

A screenshot of a cell phone

Description automatically generated

Next attempt; remedied the latitude and longitude, AC\_type from ‘none’ to ‘NoAirCon’ and dryer\_usage from ‘high’ to ‘High’. This produced a much more similar shape, however the magnitudes vary on the order of ~0.01.

The change in shape is likely to be due to the handling of dryer use. SunSPoT uses capitals, which is not recognised in the code. I have updated the script to allow this to be accepted.

A screenshot of a social media post

Description automatically generated

|  |  |  |
| --- | --- | --- |
|  | SunSpoT | Python |
|  |  |  |
| PV generated |  |  |
| PV per kW |  |  |
| Bill savings |  |  |
| PV to grid |  |  |
| PV self-consumption |  |  |
| FiT payment |  |  |
| New bill |  |  |
| Old bill |  |  |

