Data Files for Hotplates Project

(which can be found in the folder data within the data room)

**Raw Data Smart Meter**

Name: <project>\_<#meters>\_<country>\_raw.csv

Includes: All data directly after fetching from the server (1 line per data point/minute)

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | VALUE | DESCRIPTION |
| account\_id | ID | unique database identifier of smart meter |
| meter\_number | ID | unique identifier of smart meter |
| timestamp\_lt | YYYY-MM-DD HH:MM:SS (lt) | timestamp of measurement in local time |
| region | Country Code Partner (Alpha-2 Name) | two digit country code and partner abbreviation |
| region\_timezone | Continent/City | name of the continent and a city in timezone |
| energy | Kilowatt hour (kWh) | cumulative energy used by appliance |
| voltage | Volt (V) | active voltage at time of measurement |
| current | Ampere (A) | active current at time of measurement |
| power | Kilowatt (kW) | active real power at time of measurement |
| power\_factor | Ratio (-) | apparent power / real power |
| frequency | Herz (Hz) | frequency at time of measurement |
| household\_id | ID | unique identifier of the household |
| application | Grid/Hot plate | type of application |

**Cooking Event Data Smart Meter**

Name: <project>\_<#meters>\_<country>\_events\_list.csv

Includes: Information on cooking sessions (1 line per cooking event)

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | VALUE | DESCRIPTION |
| account\_id | ID | unique database identifier of smart meter |
| meter\_number | ID | unique identifier of smart meter |
| region | Country Code Partner (Alpha-2 Name) | two digit country code and partner abbreviation |
| region\_timezone | Continent/City | name of the continent and a city in timezone |
| event\_time\_utc\_start | YYYY-MM-DD HH:MM:SS (utc) | timestamp at start of cooking event in utc |
| event\_time\_utc\_end | YYYY-MM-DD HH:MM:SS (utc) | timestamp at end of cooking event in utc |
| event\_time\_lt\_start | YYYY-MM-DD HH:MM:SS (lt) | timestamp at start of cooking event in local time |
| event\_time\_lt\_end | YYYY-MM-DD HH:MM:SS (lt) | timestamp at end of cooking event in local time |
| event\_duration | Minutes (min) | duration of cooking event in minutes |
| event\_energy\_start | Kilowatt hour (kWh) | energy count at start of event |
| event\_energy\_end | Kilowatt hour (kWh) | energy count at end of event |
| event\_energy | Kilowatt hour (kWh) | energy consumption of cooking event |
| event\_current\_max | Ampere (A) | maximum of current within that cooking event |
| household\_id | ID | unique identifier of the household |
| application | Grid/Hot plate | type of application |

**Daily Statistics Smart Meter**

Name: <project>\_<#meters>\_<country\_daily\_stats.csv

Includes: Daily information on cooking minutes and energy per user (1 line per user per day)

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | VALUE | DESCRIPTION |
| meter\_number | ID | unique identifier of smart meter |
| event\_time\_utc\_start | YYYY-MM-DD (utc) | date of cooking event (utc) |
| daily\_event\_count | (-) | number of cooking events per day per user |
| daily\_event\_duration | Minutes (min) | total cooking time per day per user |
| daily\_energy\_consumption | Kilowatt hour (kWh) | total energy consumption per day per user |
| household\_id | ID | unique identifier of the household |
| application | Grid/Hot plate | type of application |