**Variables Table**

| **Variable Name** | **Role** | **Type** | **Description** | **Units** | **Missing Values** |
| --- | --- | --- | --- | --- | --- |
| Date | Feature | Date |  |  | no |
| Time | Feature | Categorical |  |  | no |
| Global\_active\_power | Feature | Continuous |  |  | no |
| Global\_reactive\_power | Feature | Continuous |  |  | no |
| Voltage | Feature | Continuous |  |  | no |
| Global\_intensity | Feature | Continuous |  |  | no |
| Sub\_metering\_1 | Feature | Continuous |  |  | no |
| Sub\_metering\_2 | Feature | Continuous |  |  | no |
| Sub\_metering\_3 | Feature | Continuous |  |  | no |

**Additional Variable Information**

1.date: Date in format dd/mm/yyyy

2.time: time in format hh:mm:ss

3.global\_active\_power: household global minute-averaged active power (in kilowatt)

4.global\_reactive\_power: household global minute-averaged reactive power (in kilowatt)

5.voltage: minute-averaged voltage (in volt)

6.global\_intensity: household global minute-averaged current intensity (in ampere)

7.sub\_metering\_1: energy sub-metering No. 1 (in watt-hour of active energy). It corresponds to the kitchen, containing mainly a dishwasher, an oven and a microwave (hot plates are not electric but gas powered).

8.sub\_metering\_2: energy sub-metering No. 2 (in watt-hour of active energy). It corresponds to the laundry room, containing a washing-machine, a tumble-drier, a refrigerator and a light.

9.sub\_metering\_3: energy sub-metering No. 3 (in watt-hour of active energy). It corresponds to an electric water-heater and an air-conditioner.