Energy consumption and PV generation data of 50 prosumers and energy consumption of 40 electric vehicles - 15-minute resolution

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**Paper title: Local Electricity Markets for Electric Vehicles: An Application Study Using a Decentralized Iterative Approach, *Frontiers in Energy* Research (submitted in May 2021)**

Type: Energy consumption and PV generation data

Duration: 24 hours (15-minute 96 periods)

Resolution: 15 minutes

Application: Paper Submitted on Frontiers - Research Topic - Energy Flexible Buildings in Local Energy and Flexibility Markets

Sheets description:

* Gen: Contain the generation of each prosumer
* Load: Contain the load of each prosumer
* Prices\_buy: Buy prices for prosumers (EDP commercial retailer)
* Prices\_sell: Price of feed-in in Portugal (2019 and 2020)
* Bat: Contain the information of prosumers batteries
* Grid: Contain the information related with prosumers grid interactions
* EV\_Moves: contain the information if the EV are on movement or stopped (0- stopped, 1 on move)
* EV\_min: contain the minimum limit for EV batteries (% of maximum capacity of battery)
* EV\_con: contain the minimum limit for EV batteries (% of maximum capacity of battery)
* EV\_Buy\_Prices: Buy prices for EV (EDP commercial retailer)
* EV\_Grid: Contain the information related with EV grid interactions
* EV\_inf: contain information of EVs batteries
* EV\_model: Models of EVs used
* General Information: contain information regarding all 90 players
* Tariff: Contain 13 different tariff for buy electricity (EDP commercial retailer)