



# Github microgrid data

How do I run a microgrid?

Running the microgrid is straightforward. Simply pass an action for each fixed module to `microgrid.run`. The microgrid can also provide you a random action by calling `microgrid.sample_action`. Once the microgrid has been run for a certain number of steps, results can be viewed by calling `microgrid.get_log`.

How do I use a microgrid in pymgrid?

The microgrid can also provide you a random action by calling `microgrid.sample_action`. Once the microgrid has been run for a certain number of steps, results can be viewed by calling `microgrid.get_log`. `pymgrid` also comes pre-packaged with a set of 25 microgrids for benchmarking.

How to run micro-grids in Python?

First of all Micro-Grids needs Python 3 installed on the computer. The easiest way to obtain it, is to download anaconda in order to have all the tools needed to run python scripts. The python libraries needed to run Micro-Grids are the following: `pyomo` Optimization object library, interface to LP solver (e.g. CPLEX)

Where are the input files stored in micro-grids library?

The Micro-grids library needs the input files are stored in the folder 'Inputs', these are the needed files: This file has to contain all the parameters for the Micro-Grids library to be able to perform an optimization of the nominal capacity of the PV, battery bank and diesel generator. This file has to be written in AMPL data format.

Are microgrids idiosyncratic?

Due to their distributed nature, microgrids are often idiosyncratic; as a result, control of these systems is nontrivial. While microgrid simulators exist, many are limited in scope and in the variety of microgrids they can simulate.

What is OpenModelica microgrid gym (OMG)?

OpenModelica Microgrid Gym (OMG): An OpenAI Gym Environment for Microgrids `pymgrid` is a python library to generate and simulate a large number of microgrids. This is Electra blockchain's repository for a decentralized micro-grid electricity exchange solution

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