**Manual Report to add pdf lines to PostgreSQL table.**

Following three steps are required to complete the task.

1. **Add not exiting points to egon\_etrago\_bus table:**

Use “points\_to\_postgresql.py” code to upload “egon\_etrago\_line\_pdf\_points” table to PostgreSQL. The name of “egon\_etrago\_bus\_new” in python code need to be changed to “egon\_etrago\_bus”.

1. **Fill all required data to “egon\_etrago\_line\_pdf.csv”**

Use below python codes in order to upload required data to above table. In each python code change the name of table from “egon\_etrago\_line\_pdf\_test.csv” to “egon\_etrago\_line\_pdf.csv”.

* 1. egon\_etrago\_line\_HV.py
  2. egon\_etrago\_line\_transfer\_buses.py
  3. egon\_etrago\_line\_MV.py
  4. egon\_etrago\_bus.py

1. **upload new transmission line information to PostgreSQL relevant table:**

use “line\_to\_postgresql.py” code to upload “egon\_etrago\_line\_pdf.csv” to “egon\_etrago\_line” table in PostgreSQL.

Also modify below points before uploading:

* 1. The name of “egon\_etrago\_line\_new” in python code need to be changed to “egon\_etrago\_line”.
  2. Extra columns, which has extra information is not neccessory to be uploaded to postgresql table and the data up to column AA is required, other columns from the csv file should be deleted.
  3. The value in column name v\_ang\_min is -infinity this need to be manually changed in csv file to “ ‘-infinity “.