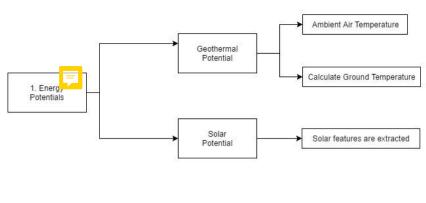
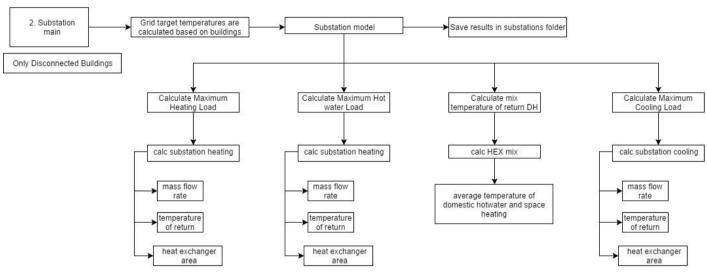
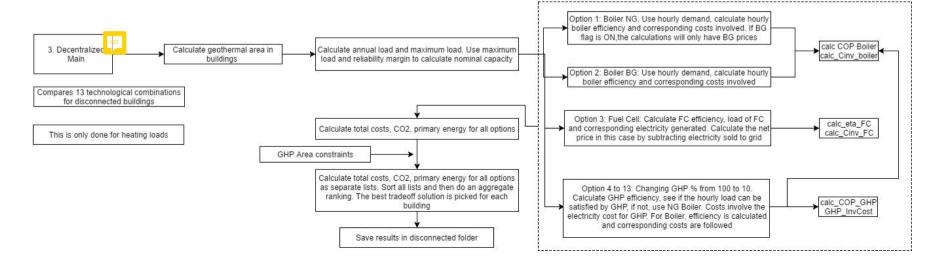
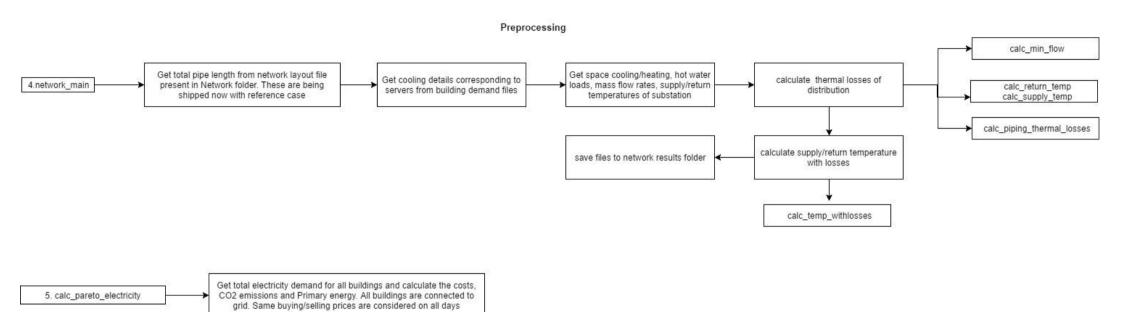
#### Preprocessing









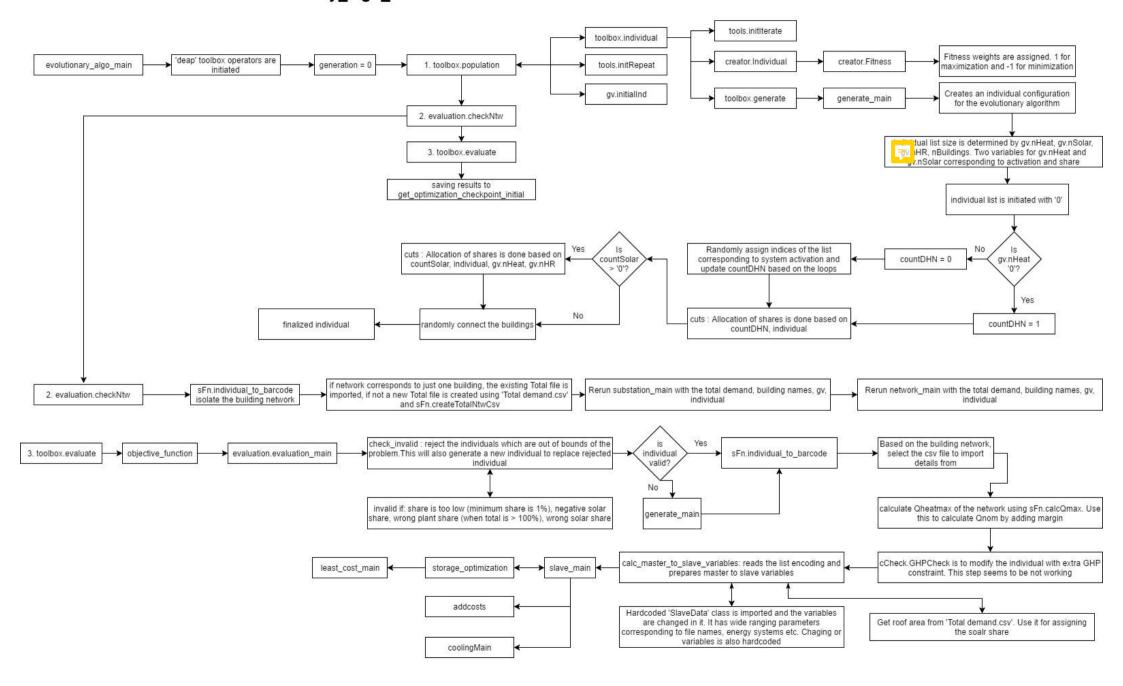
calc\_Cinv\_boiler

Get total process heat and calculate the corresponding costs, CO2 emissions and primary energy. A NG boiler is used to meet this

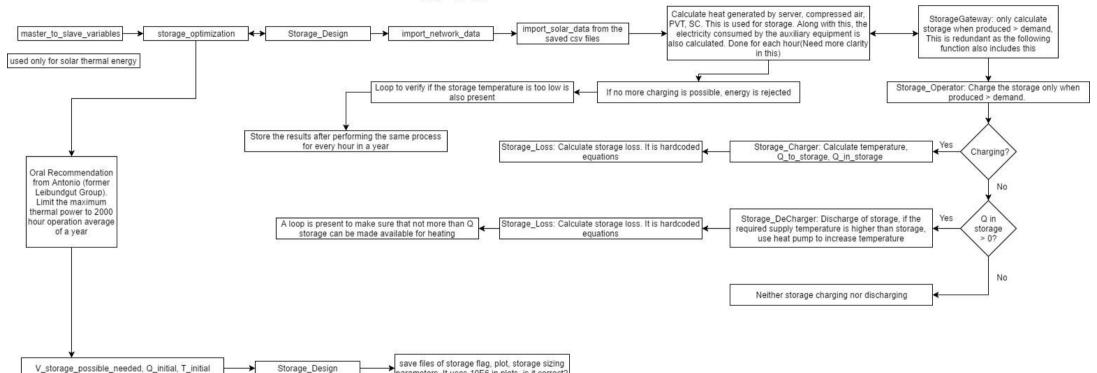
requirement. Nominal capacity is designed based on peak load plus margin of design.

5. calc\_pareto\_Qhp

#### evolutionary\_algo\_main

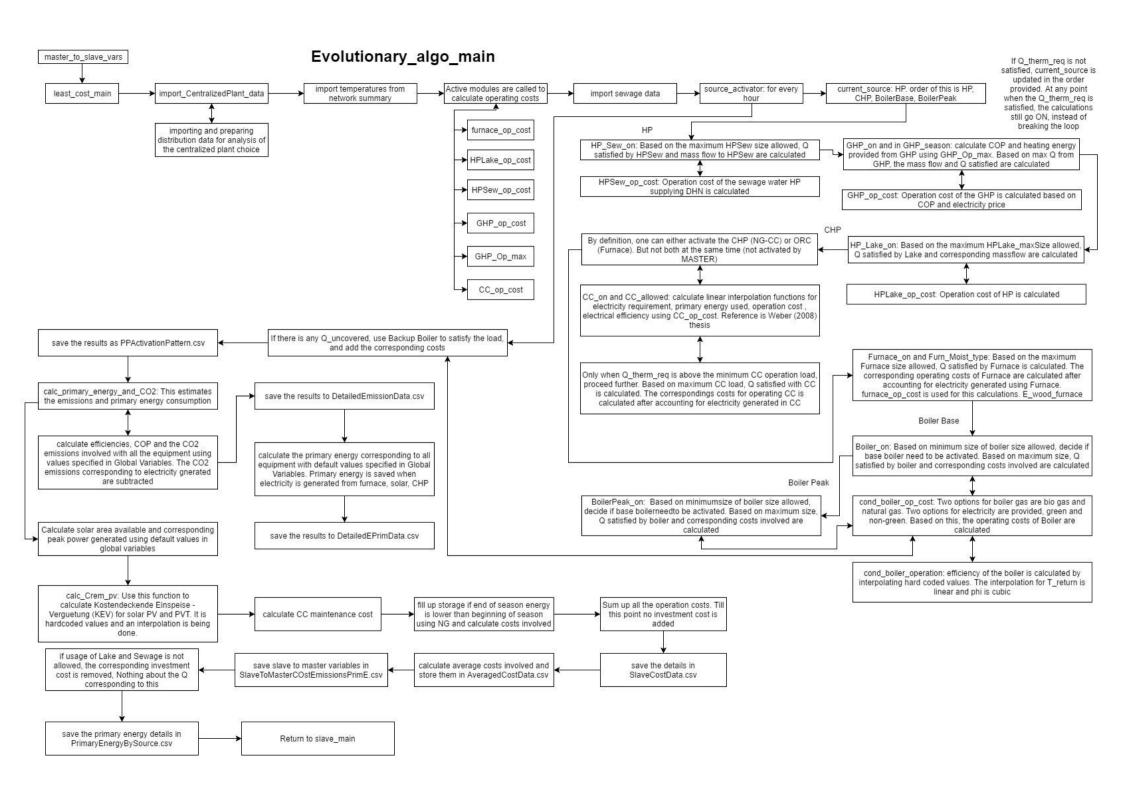


### Evolutionary\_algo\_main

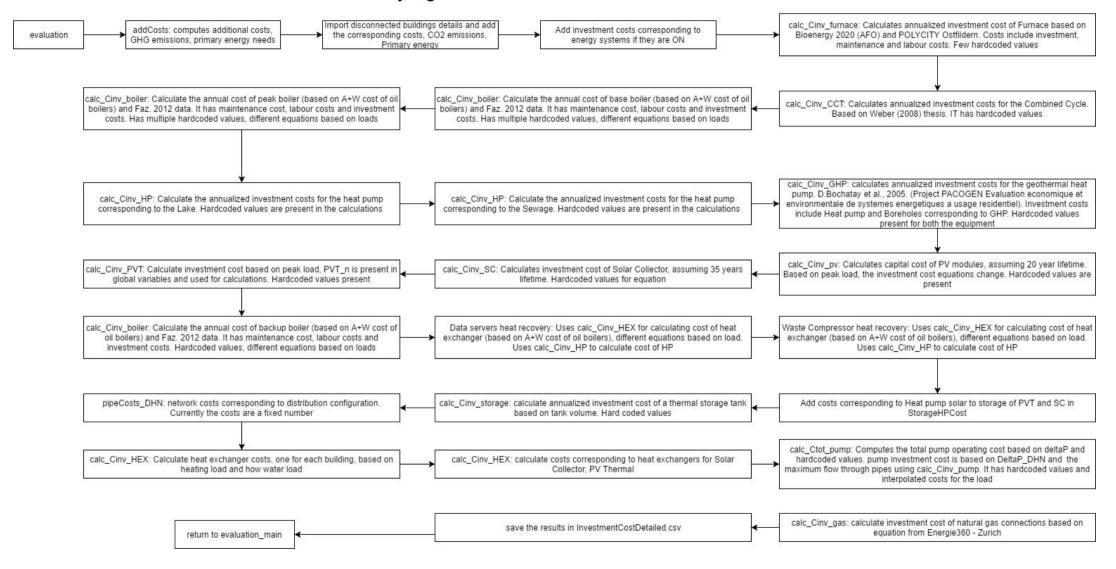


parameters. It uses 10E6 in plots, is it correct?

Loop for 6 rounds, if the deviation between initial storage content and final storage content is not less than 1%. If after 6 rounds, it does not go below 1%, use conventional heat pump to satisfy demand



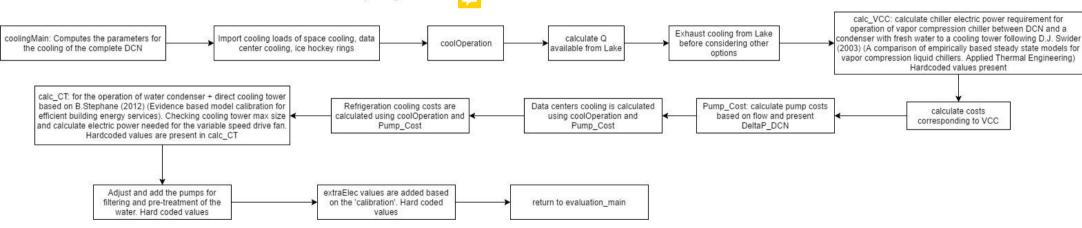
#### **Evolutionary algo main**







## Evolutionary algo main





# **Evolutionary algo main**

