Data Download would cost over 1 hour. If don’t want to wait. The downloaded data is already in target folder. **If just want to test, please start at Step3.**

Step1: Get hiflddata:

1. Enter the workspace "\HIFLD\_Profile\_APP"
2. Run command "python data\_trans.py".
3. Run command "python plant\_agg.py".
4. Copy the documents in “output”, paste in “powersimdata/network/usa\_tamu/data” manually. If it is the first time to run project，also copy the zone.csv in “hiflddata/data” folder to “powersimdata/network/usa\_tamu/data”.

Step2: Download HIFLD profile:

1. Enter the environment of PreReise.
2. Run winddata.py, solardata\_nsrdb\_sam.py, hydrodata.py
3. Move the output(wind.csv, solar.csv, hydro.csv) to folder “\HIFLD\_Profile\_APP\output\PreReise\_HIFLD\_Profiles\_Raw”

(Data Download would cost over 1 hour. If don’t want to wait. The downloaded data is already in target folder.)

Step3: Get wind\solar\hydro data:

1.Enter the workspace "\HIFLD\_Profile\_APP"

2.Run command "python src\wind\_plant\_cross\_validation.py" to transfer the wind data. The output will be in folder "output\HIFLD\_Profiles\_Final".

3.Run command "python src\solar\_plant\_cross\_validation.py" to transfer the solar data. The output will be in folder "output\HIFLD\_Profiles\_Final".

4.Run command "python src\hydro\_plant\_cross\_validation.py" to transfer the hydro data. The output will be in folder "output\HIFLD\_Profiles\_Final".

5(optional. If need Eastern\Western\Texas data).

Run command "python src\tamu\_data\_devide.py". The output will be in folder "output\HIFLD\_Profiles\_Final\Texas(Eastern,Western)"

Step4:Get demand data:

1.Enter the workspace "\HIFLD\_Profile\_APP\Demand"

2.Run command "python demand\_trans.py". The output will be in folder "demand\_output".

3(optional. If need Eastern\Western\Texas data).

Run command "python src\tamu\_data\_devide.py". The output will be in folder "demand\_output\Texas(Eastern,Western)".