Flat

python run\_kpi\_perfect2x2.py --gui --strategy flat --routes ev\_routes\_ev\_600.rou.xml --additional additional\_stop\_paper.add.xml --start-h 21 --start-min 30 --soc-thres 0.60 --target-soc 0.90 --beta0 -1.0 --beta1 2.8 --beta2 -2.5 --beta3 -1.8 --cooldown 30 --out flat\_2130\_2230.csv

Launching: C:\SUMO\sumo-1.24.0\bin\sumo-gui -n C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_map.net.xml -r C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_routes\_ev\_600.rou.xml --additional-files C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\additional\_stop\_paper.add.xml Done: flat | Revenue: 1.12 | PAR: 27.23

ToU

python run\_kpi\_perfect2x2.py --gui --strategy tou --routes ev\_routes\_ev\_600.rou.xml --additional additional\_stop\_paper.add.xml --start-h 21 --start-min 30 --soc-thres 0.60 --target-soc 0.90 --beta0 -1.0 --beta1 2.8 --beta2 -2.5 --beta3 -1.8 --cooldown 30 --out tou\_2130\_2230.csv

Launching: C:\SUMO\sumo-1.24.0\bin\sumo-gui -n C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_map.net.xml -r C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_routes\_ev\_600.rou.xml --additional-files C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\additional\_stop\_paper.add.xml Done: tou | Revenue: 0.99 | PAR: 25.61

Cleaned -> normalize\_ppo\_csv.py

PPO-CSV

python run\_kpi\_perfect2x2.py --gui --strategy ppo\_csv --routes ev\_routes\_ev\_600.rou.xml --additional additional\_stop\_paper.add.xml --csv ppo\_csv\_normalized.csv --base 0.28 --spread 0.18 --start-h 21 --start-min 30 --soc-thres 0.60 --target-soc 0.90 --beta0 -1.0 --beta1 2.8 --beta2 -2.5 --beta3 -1.8 --cooldown 30 --out ppo\_csv\_valley.csv

Launching: C:\SUMO\sumo-1.24.0\bin\sumo-gui -n C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_map.net.xml -r C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_routes\_ev\_600.rou.xml --additional-files C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\additional\_stop\_paper.add.xml Done: ppo\_csv | Revenue: 1.06 | PAR: 27.25

PPO-Time

python run\_kpi\_perfect2x2.py --gui --strategy ppo\_time --routes ev\_routes\_ev\_600.rou.xml --additional additional\_stop\_paper.add.xml --csv ppo\_csv\_normalized.csv --base 0.28 --spread 0.18 --period 240 --start-h 21 --start-min 30 --soc-thres 0.60 --target-soc 0.90 --beta0 -1.0 --beta1 2.8 --beta2 -2.5 --beta3 -1.8 --cooldown 30 --out ppo\_time\_valley.csv

Launching: C:\SUMO\sumo-1.24.0\bin\sumo-gui -n C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_map.net.xml -r C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\ev\_routes\_ev\_600.rou.xml --additional-files C:\Users\曦曦yyds\Desktop\EV\_SUMO\_SIM\additional\_stop\_paper.add.xml Done: ppo\_time | Revenue: 1.09 | PAR: 25.15