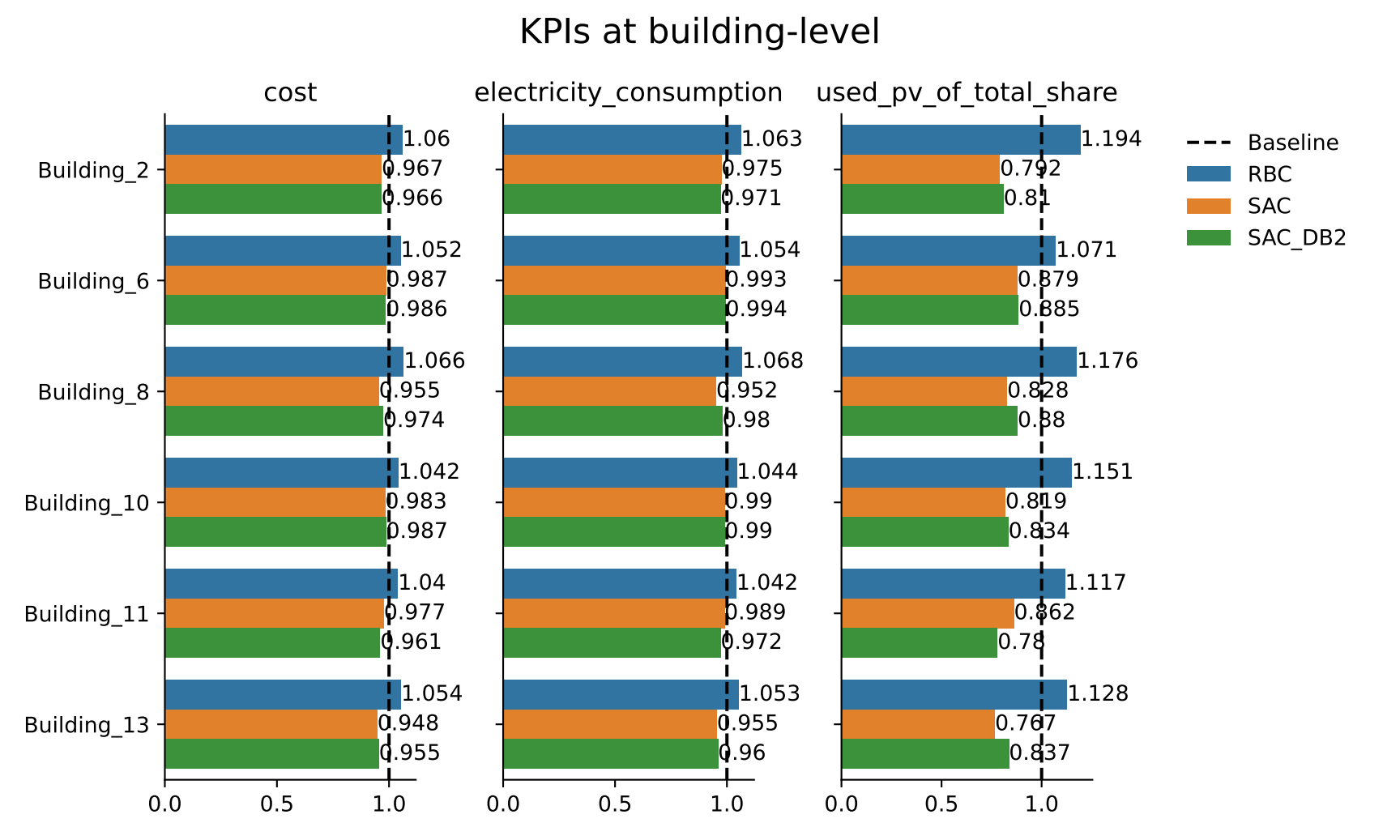
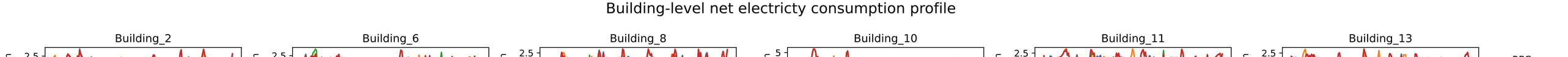
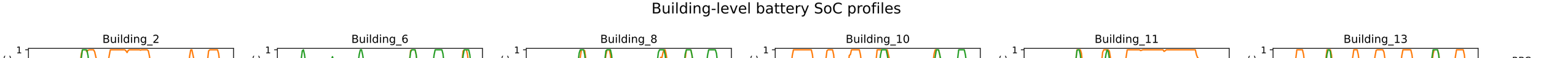
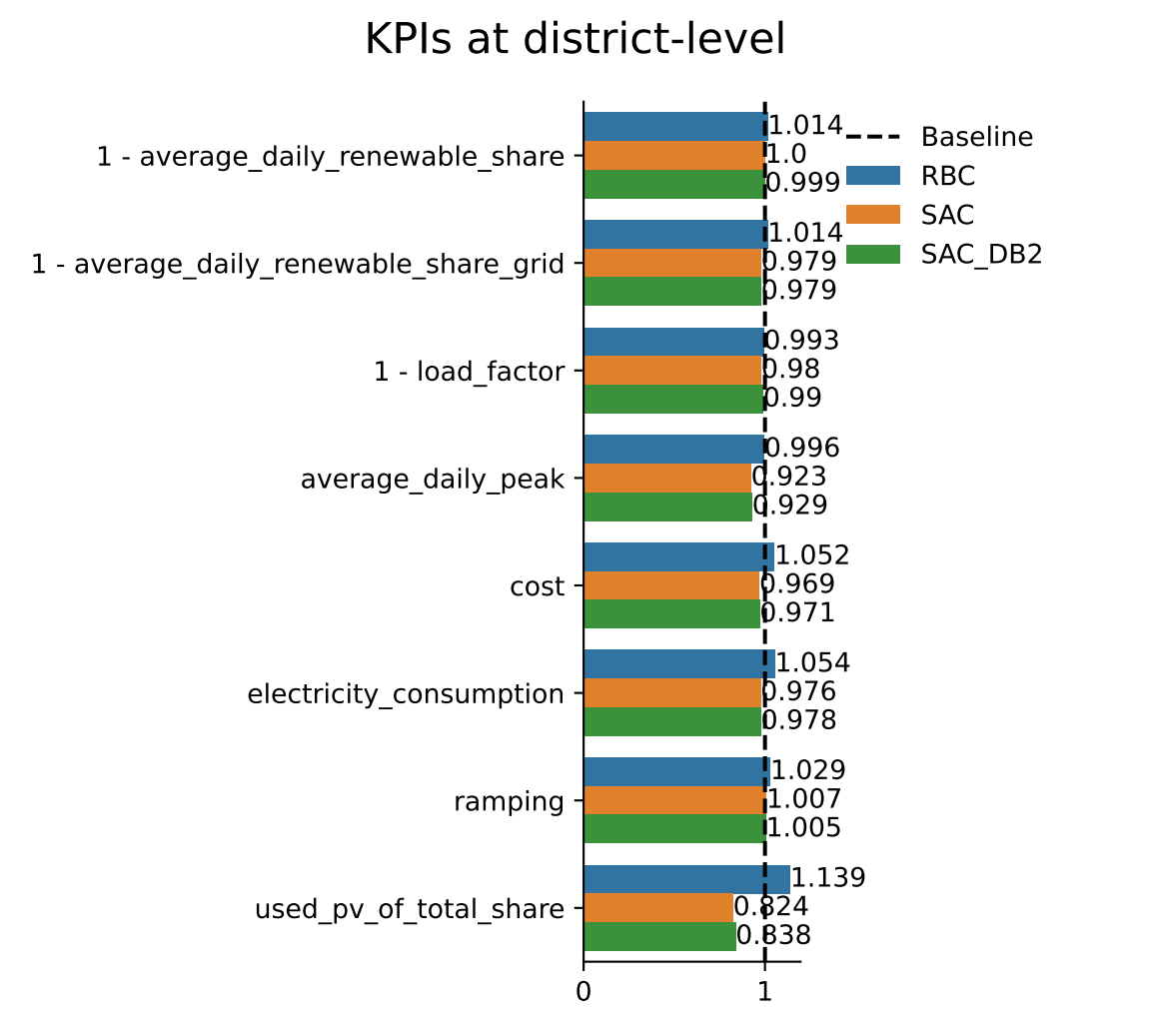
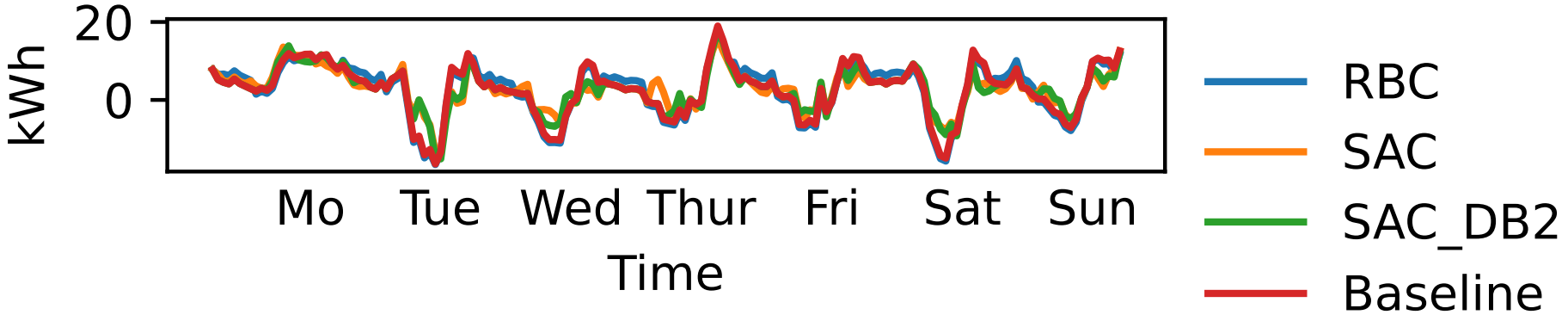

KPIs at building-level
cost
electricity_consumption
used_pv_of_total_share
Baseline
RBC
SAC
SAC_DB2
Building_2
Building_6
Building_8
Building_10
Building_11
Building_13
1.06
0.967
0.966
1.052
0.987
0.986
1.066
0.955
0.974
1.042
0.983
0.987
1.04
0.977
0.961
1.054
0.948
0.955
1.063
0.975
0.971
1.054
0.993
0.994
1.068
0.952
0.98
1.044
0.99
0.99
1.042
0.989
0.972
1.053
0.955
0.96
1.194
0.792
0.81
1.071
0.879
0.885
1.176
0.828
0.88
1.151
0.819
0.834
1.117
0.862
0.78
1.128
0.767
0.837
0.0
0.5
1.0

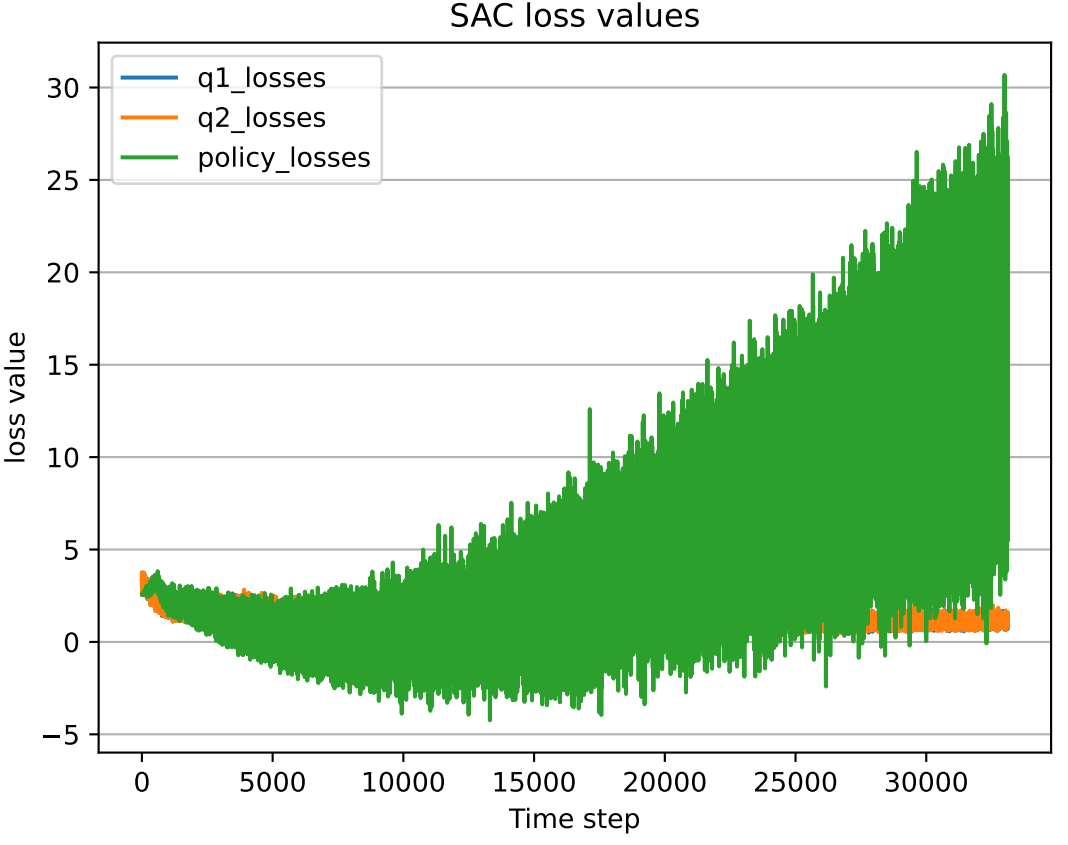

Building-level net electricty consumption profile
Building_2
Building_6
Building_8
Building_10
Building_11
Building_13
kWh
Mo Tue Wed Thur Fri Sat Sun
Time
RBC
SAC
SAC_DB2
Baseline

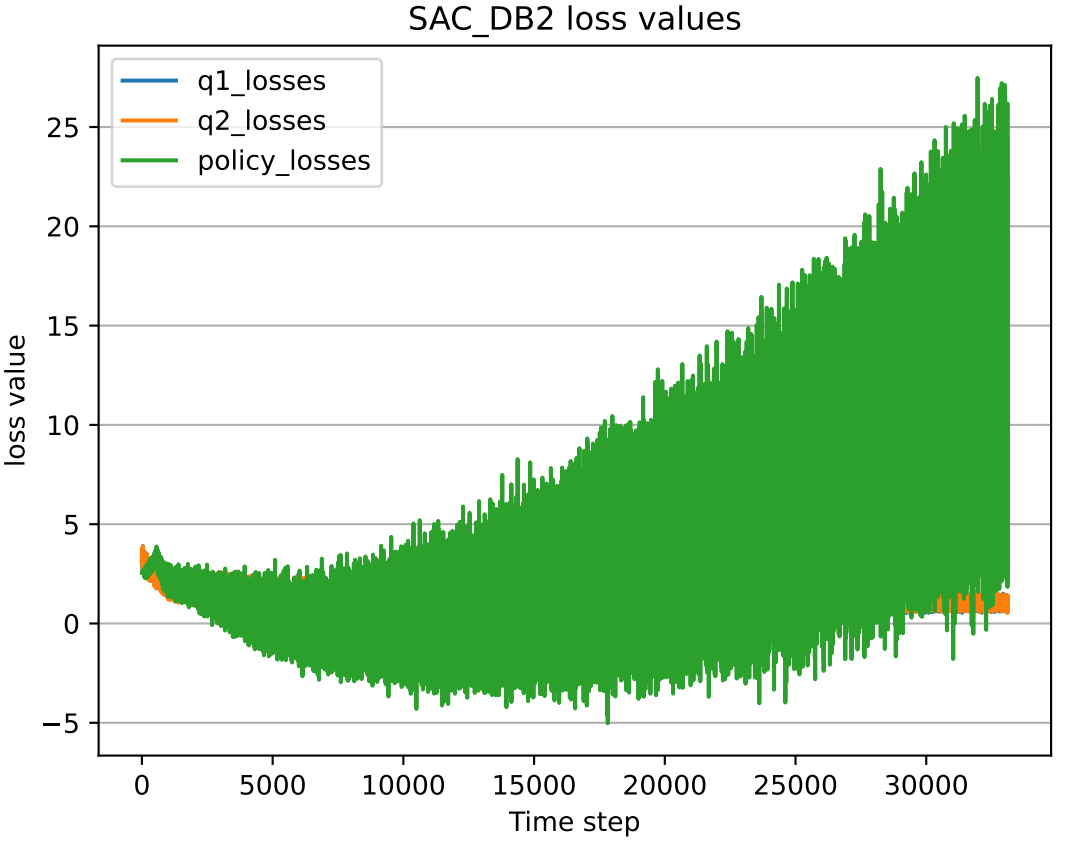

Building-level battery SoC profiles
Building_2
Building_6
Building_8
Building_10
Building_11
Building_13
SoC
1
0
Mo
Tue
Wed
Thur
Fri
Sat
Sun
Time
RBC
SAC
SAC_DB2

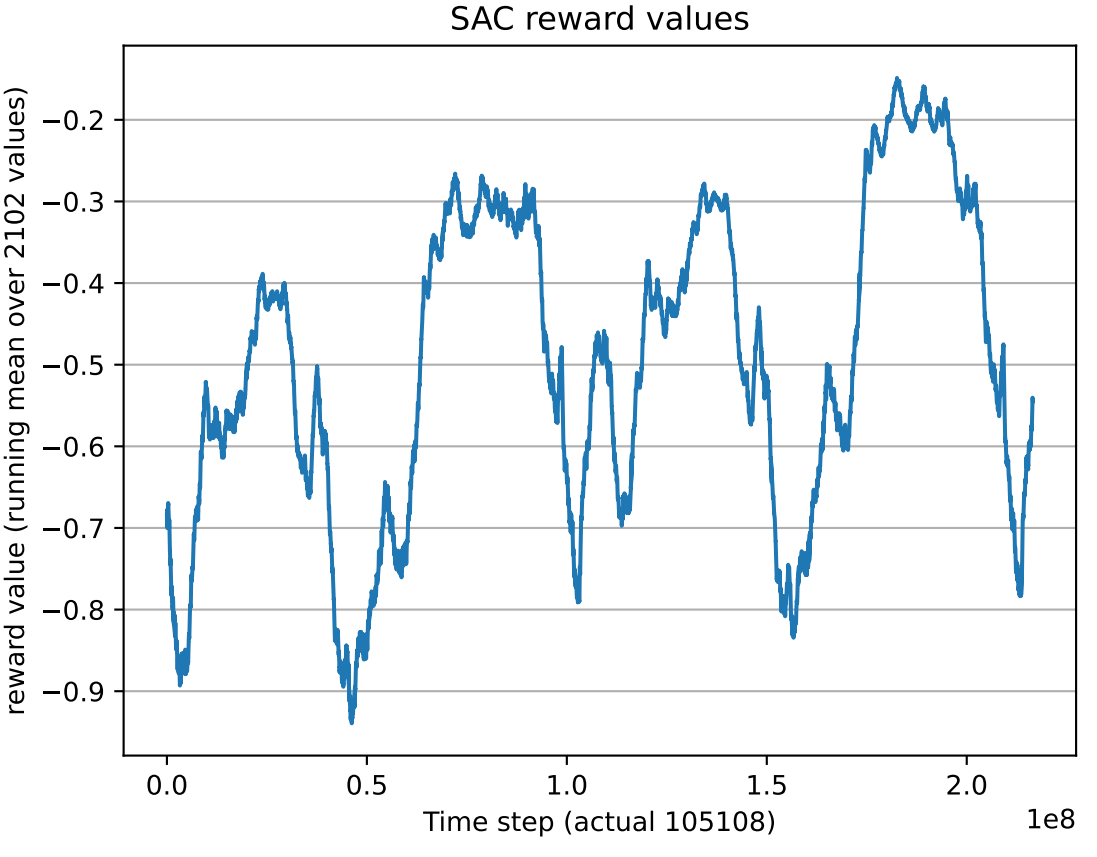

KPIs at district-level
1 - average_daily_renewable_share
1 - average_daily_renewable_share_grid
1 - load_factor
average_daily_peak
cost
electricity_consumption
ramping
used_pv_of_total_share
1.014
1.0
0.999
1.014
0.979
0.979
0.993
0.98
0.99
0.996
0.923
0.929
1.052
0.969
0.971
1.054
0.976
0.978
1.029
1.007
1.005
1.139
0.824
0.838
Baseline
RBC
SAC
SAC_DB2
0
1

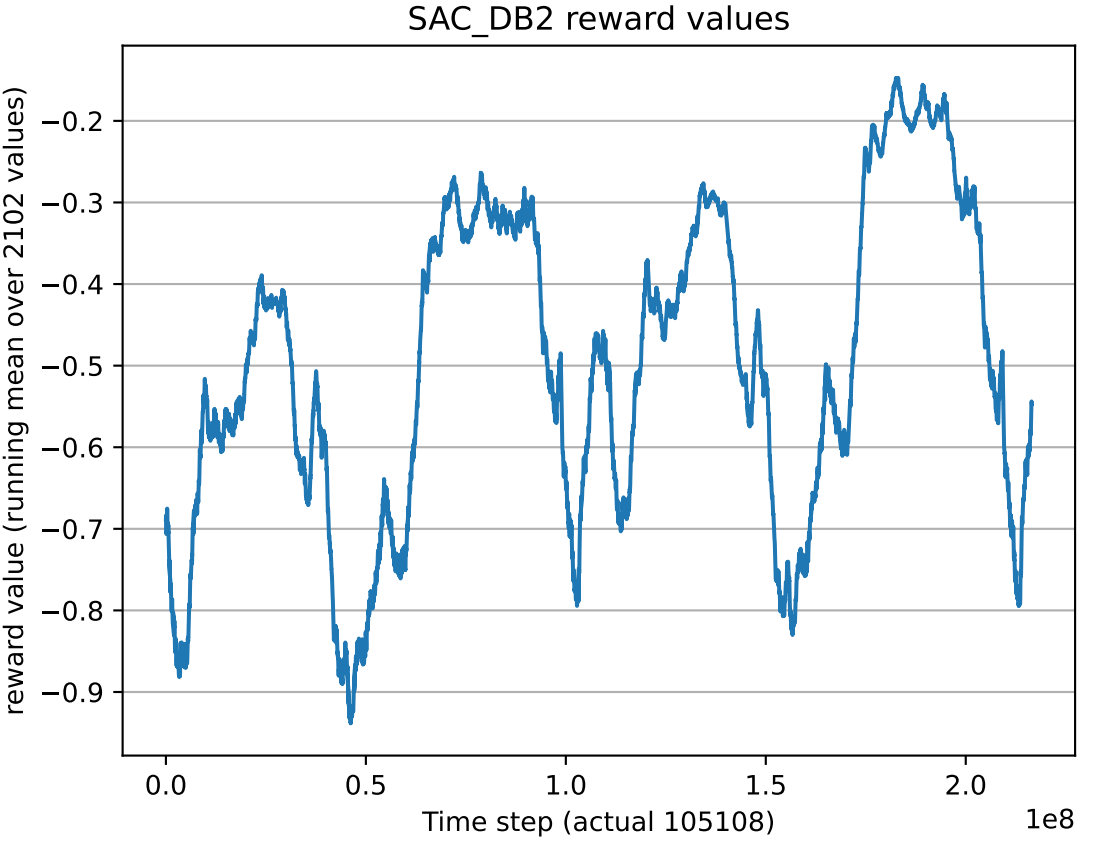
District-level net electricty consumption profile




SAC loss values
q1_losses
q2_losses
policy_losses
loss value
30
25
20
15
10
5
0
−5
0
5000
10000
15000
20000
25000
30000
Time step


SAC_DB2 loss values
q1_losses
q2_losses
policy_losses
loss value
25
20
15
10
5
0
−5
0
5000
10000
15000
20000
25000
30000
Time step


SAC reward values
reward value (running mean over 2102 values)
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0.0
0.5
1.0
1.5
2.0
Time step (actual 105108)
1e8


SAC_DB2 reward values
reward value (running mean over 2102 values)
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0.0
0.5
1.0
1.5
2.0
Time step (actual 105108)
1e8