Assignment 1 - You Wu

Test if the function works.

PJM onpeak 2018A hours: 4080
PJM offpeak 2018A hours: 4680
PJM flat 2018A hours: 8760

hours: 1760 PJM 7x8 2018A hours: 2920

PJM 2x16H 2018A

PJM onpeak 2018Q2

hours: 1024

PJM offpeak 2018Q2

hours: 1160 PJM flat 2018Q2 hours: 2184

PJM 2x16H 2018Q2

hours: 432 PJM 7x8 2018Q2 hours: 728

110uls. 720

PJM onpeak 2018Mar

hours: 352

PJM offpeak 2018Mar

hours: 391

PJM flat 2018Mar

hours: 743

PJM 2x16H 2018Mar

hours: 144 PJM 7x8 2018Mar hours: 247

PJM onpeak 2018-2-3

hours: 0

PJM offpeak 2018-2-3

hours: 24

PJM flat 2018-2-3

hours: 24

PJM 2x16H 2018-2-3

hours: 16

PJM 7x8 2018-2-3

hours: 8

get_hours(iso, peak_type, period) function works well.

Test with EnergyGPS data.

CAISO flat 2023Jan

hours: 744

CAISO onpeak 2023Jan

hours: 400

CAISO offpeak 2023Jan

hours: 344

CAISO flat 2023Feb

hours: 672

CAISO onpeak 2023Feb

hours: 384

CAISO offpeak 2023Feb

hours: 288

CAISO flat 2023Mar

hours: 743

CAISO onpeak 2023Mar

hours: 432

CAISO offpeak 2023Mar

hours: 311

CAISO flat 2023Apr

hours: 720

CAISO onpeak 2023Apr

hours: 400

CAISO offpeak 2023Apr

hours: 320

CAISO flat 2023May

hours: 744

CAISO onpeak 2023May

hours: 416

CAISO offpeak 2023May

hours: 328

CAISO flat 2023Jun

hours: 720

CAISO onpeak 2023Jun

hours: 416

CAISO offpeak 2023Jun

hours: 304

CAISO flat 2023Jul

hours: 744

CAISO onpeak 2023Jul

hours: 400

CAISO offpeak 2023Jul

hours: 344

CAISO flat 2023Aug

hours: 744

CAISO onpeak 2023Aug

hours: 432

CAISO offpeak 2023Aug

hours: 312

CAISO flat 2023Sep

hours: 720

CAISO onpeak 2023Sep

hours: 400

CAISO offpeak 2023Sep

hours: 320

CAISO flat 2023Oct

hours: 744

CAISO onpeak 2023Oct

hours: 416

CAISO offpeak 2023Oct

hours: 328

CAISO flat 2023Nov

hours: 721

CAISO onpeak 2023Nov

hours: 400

CAISO offpeak 2023Nov

hours: 321

CAISO flat 2023Dec

hours: 744

CAISO onpeak 2023Dec

hours: 400

CAISO offpeak 2023Dec

hours: 344

Results match the EnergyGPS data.

Test consistency of results.

ERCOT offpeak 2020A

annually hours: 4672

total quarterly hours: 4672

ERCOT offpeak 2020Q1

quarterly hours: 1159

total monthly hours: 1159

ERCOT offpeak 2020Q2

quarterly hours: 1160

total monthly hours: 1160

ERCOT offpeak 2020Q3

quarterly hours: 1168

total monthly hours: 1168

ERCOT offpeak 2020Q4

quarterly hours: 1185

total monthly hours: 1185

ERCOT offpeak 2020Jan monthly hours: 392 total daily hours: 392 ERCOT offpeak 2020Feb monthly hours: 376 total daily hours: ERCOT offpeak 2020Mar monthly hours: 391 total daily hours: 391 ERCOT offpeak 2020Apr monthly hours: 368 total daily hours: ERCOT offpeak 2020May monthly hours: 424 total daily hours: 424 ERCOT offpeak 2020Jun monthly hours: 368 total daily hours: 368 ERCOT offpeak 2020Jul monthly hours: 376 total daily hours: 376 ERCOT offpeak 2020Aug monthly hours: 408 total daily hours: 408 ERCOT offpeak 2020Sep monthly hours: 384 total daily hours: 384 ERCOT offpeak 2020Oct monthly hours: 392 total daily hours: 392 ERCOT offpeak 2020Nov monthly hours: 401 total daily hours: 401 ERCOT offpeak 2020Dec monthly hours: 392 total daily hours: 392

Results are consistent.