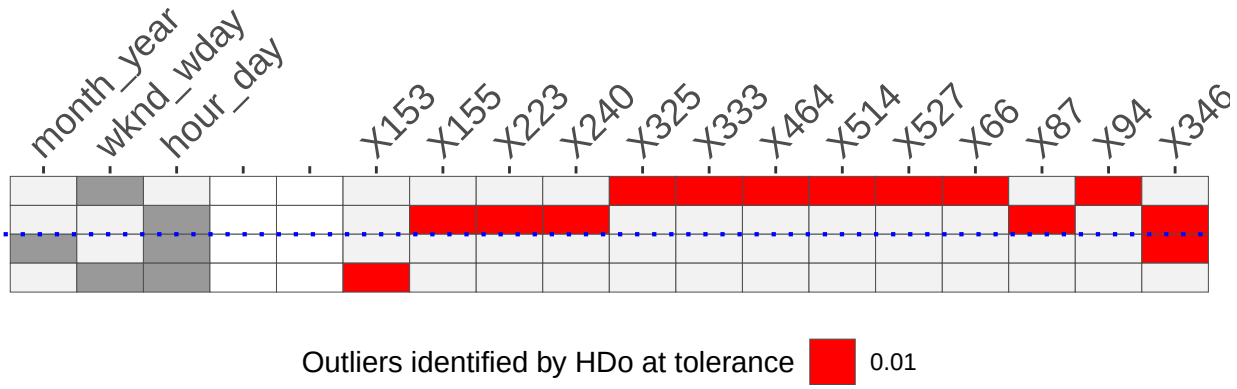
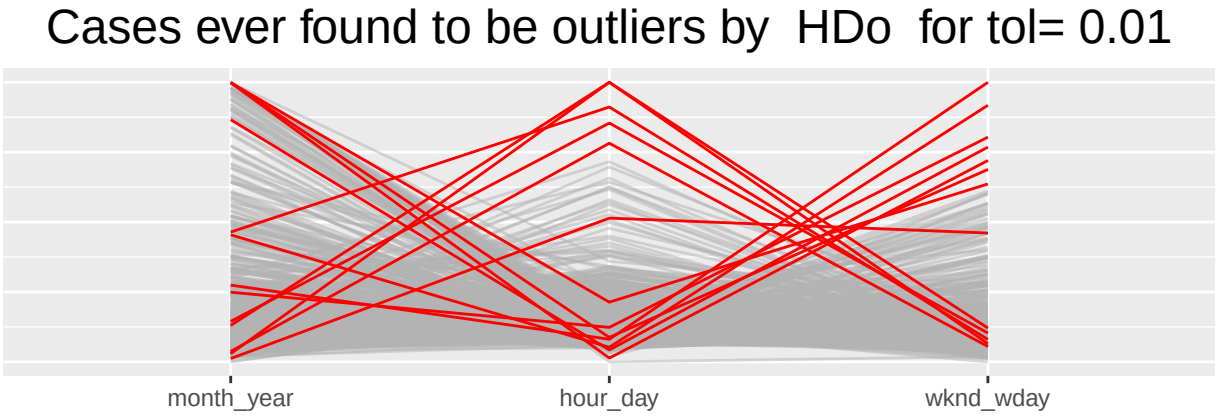
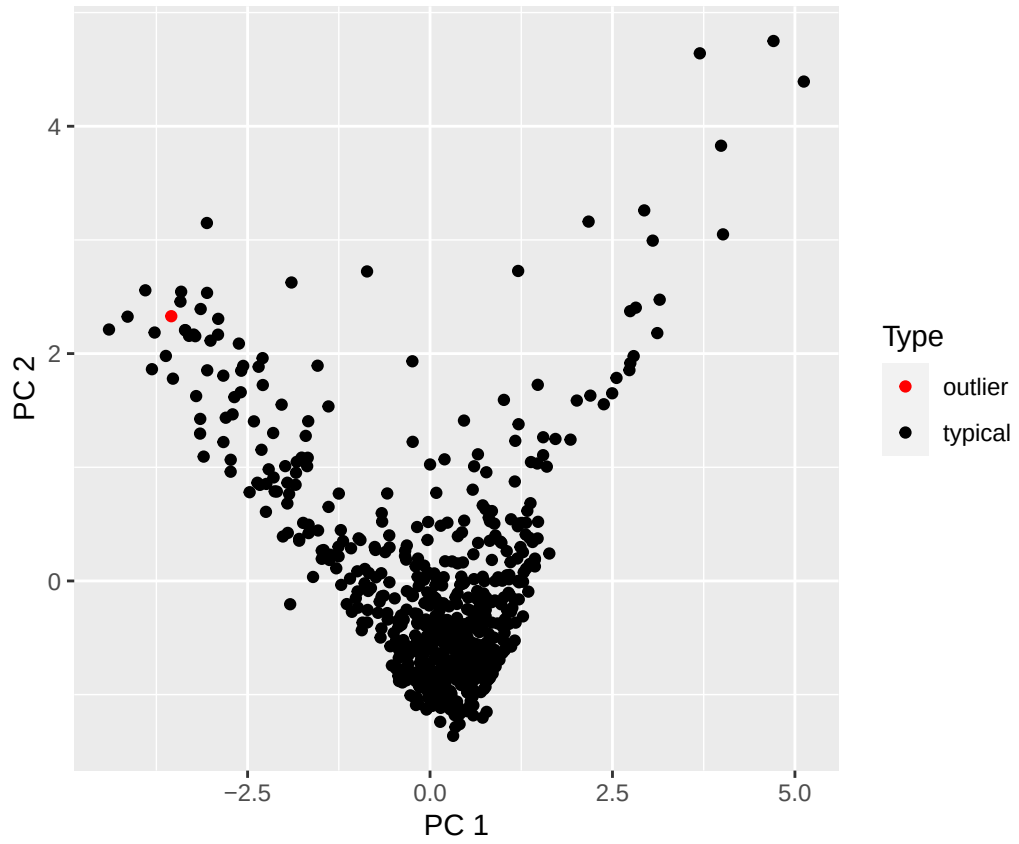
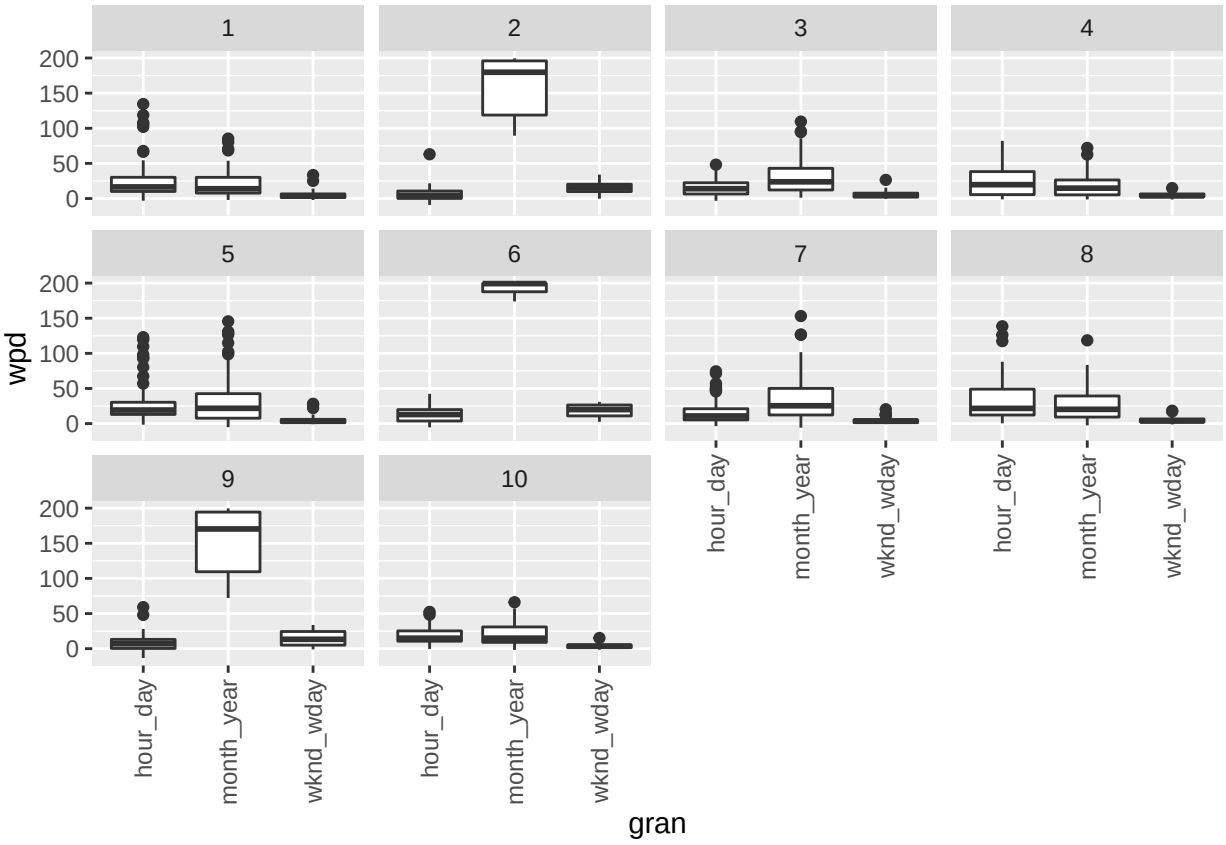
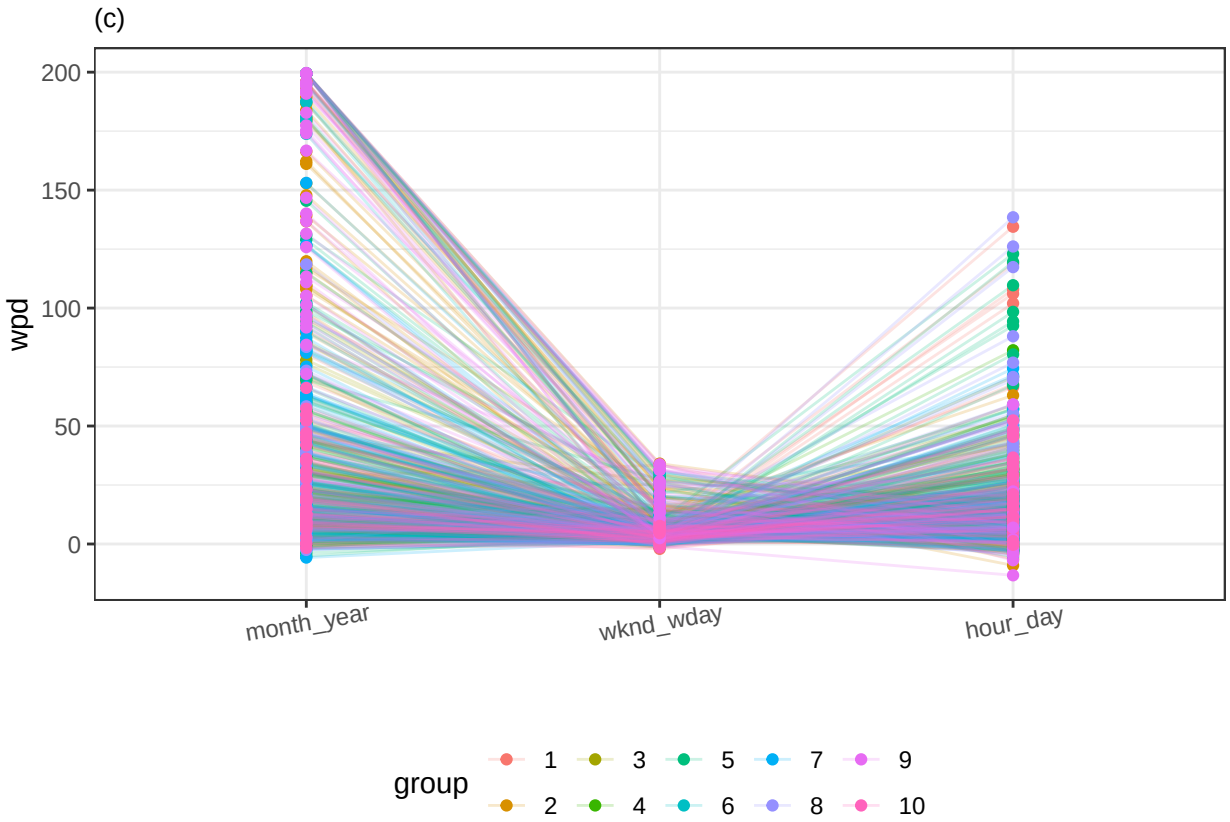
Algorithm using wpd values for clustering 600 households



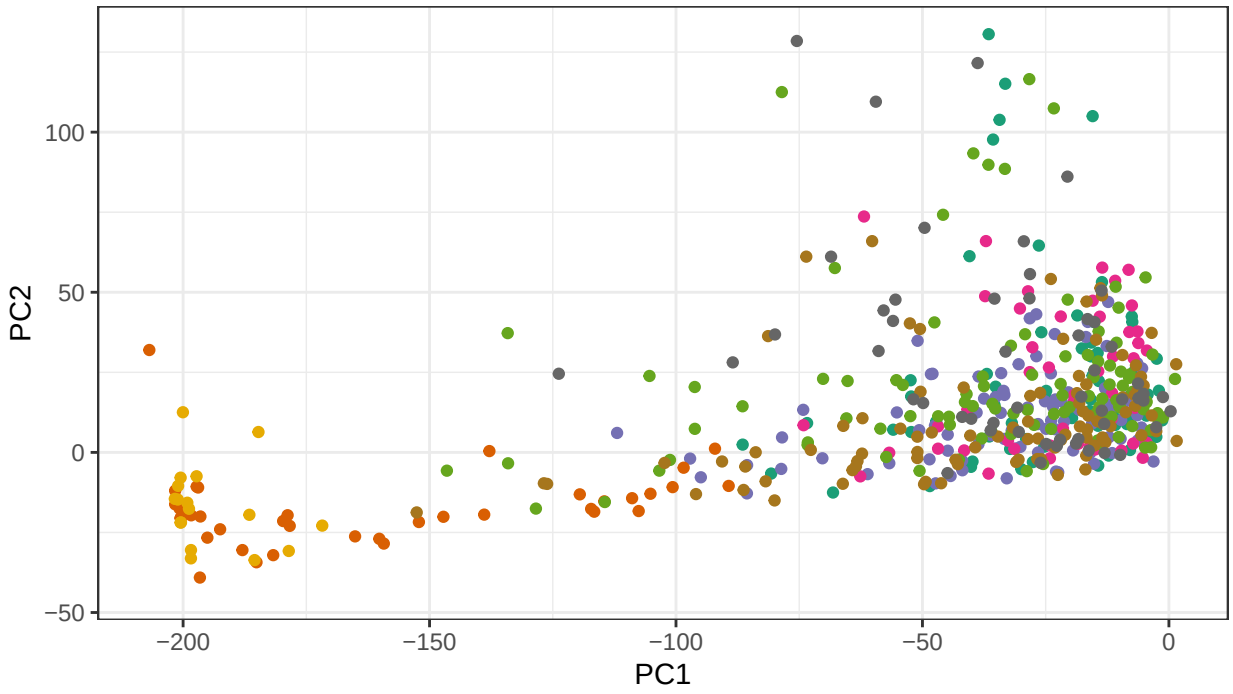



PC 2
PC 1
4
2
0
−2.5
0.0
2.5
5.0
Type
outlier
typical

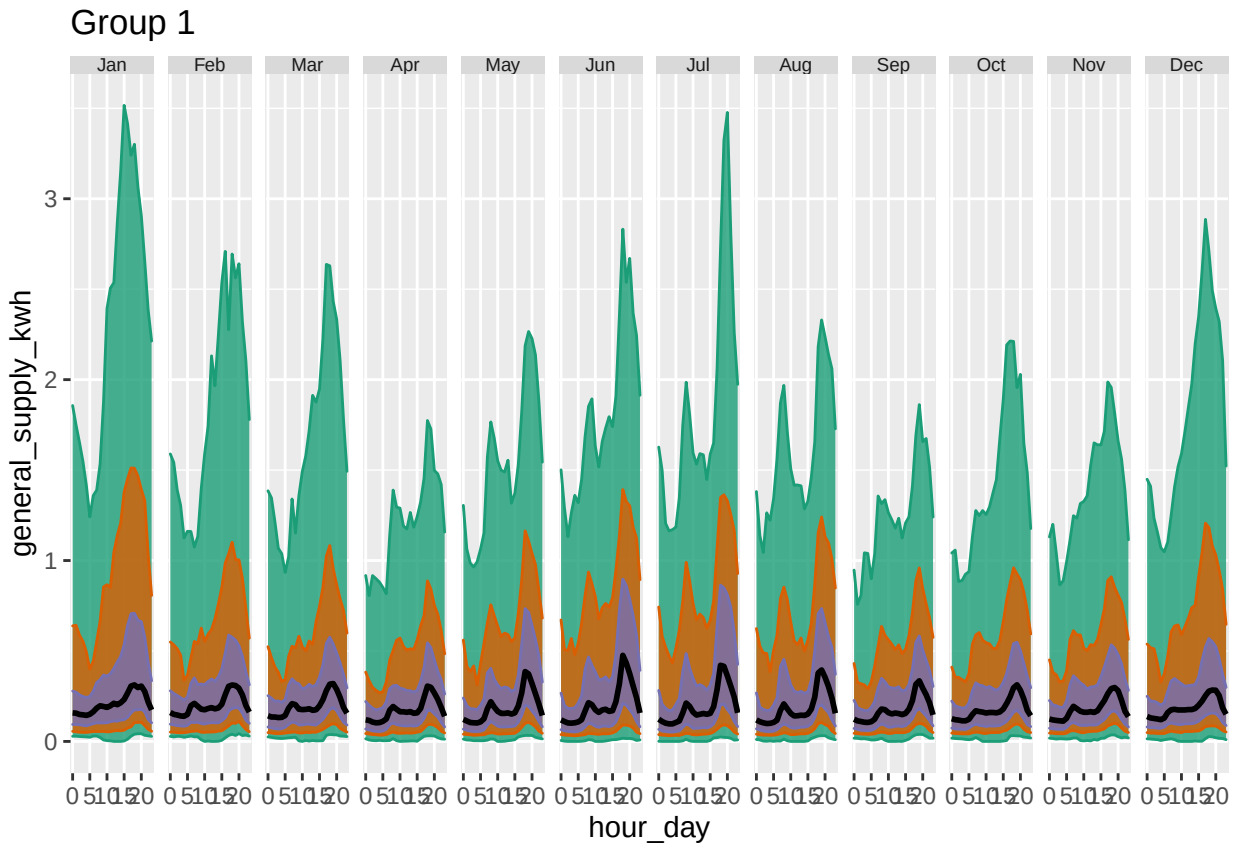

1
2
3
4
5
6
7
8
9
10
wpd
200
150
100
50
0
hour_day
month_year
wknd_wday
gran

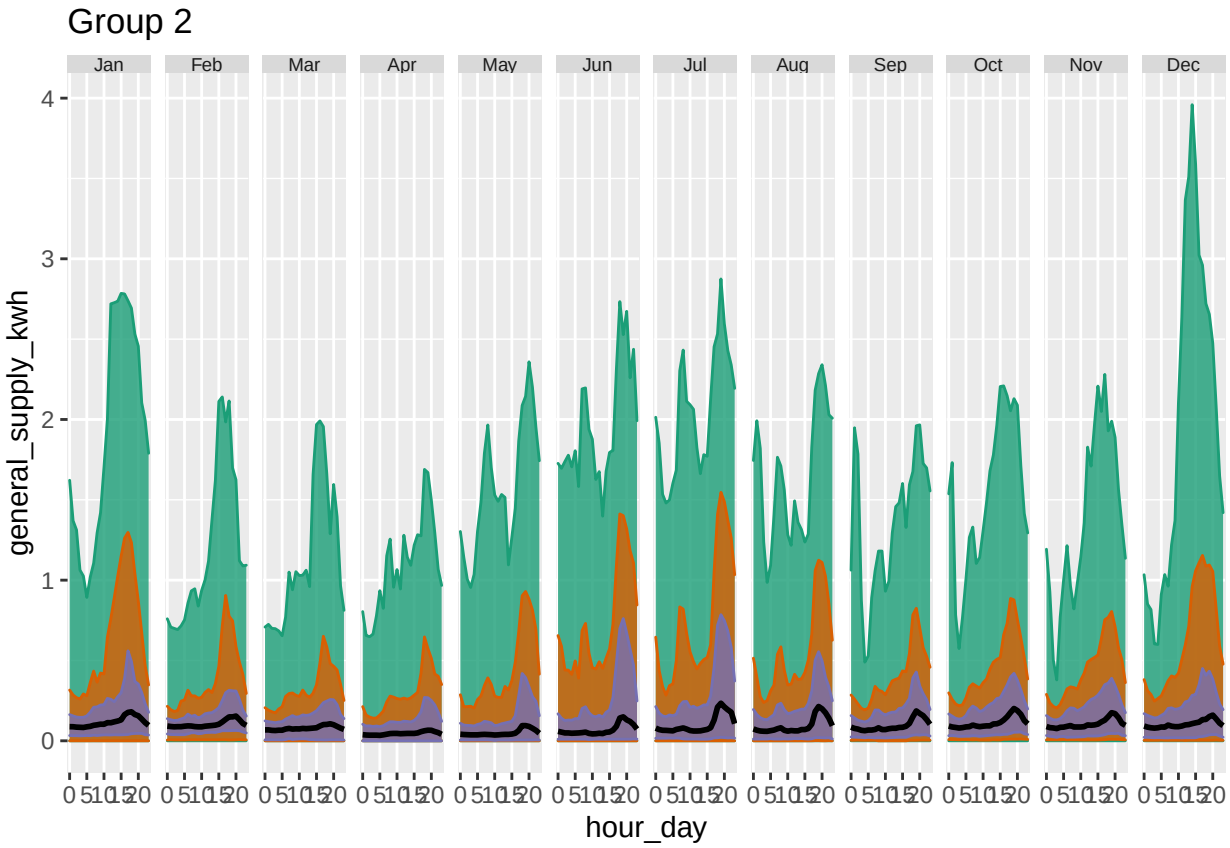


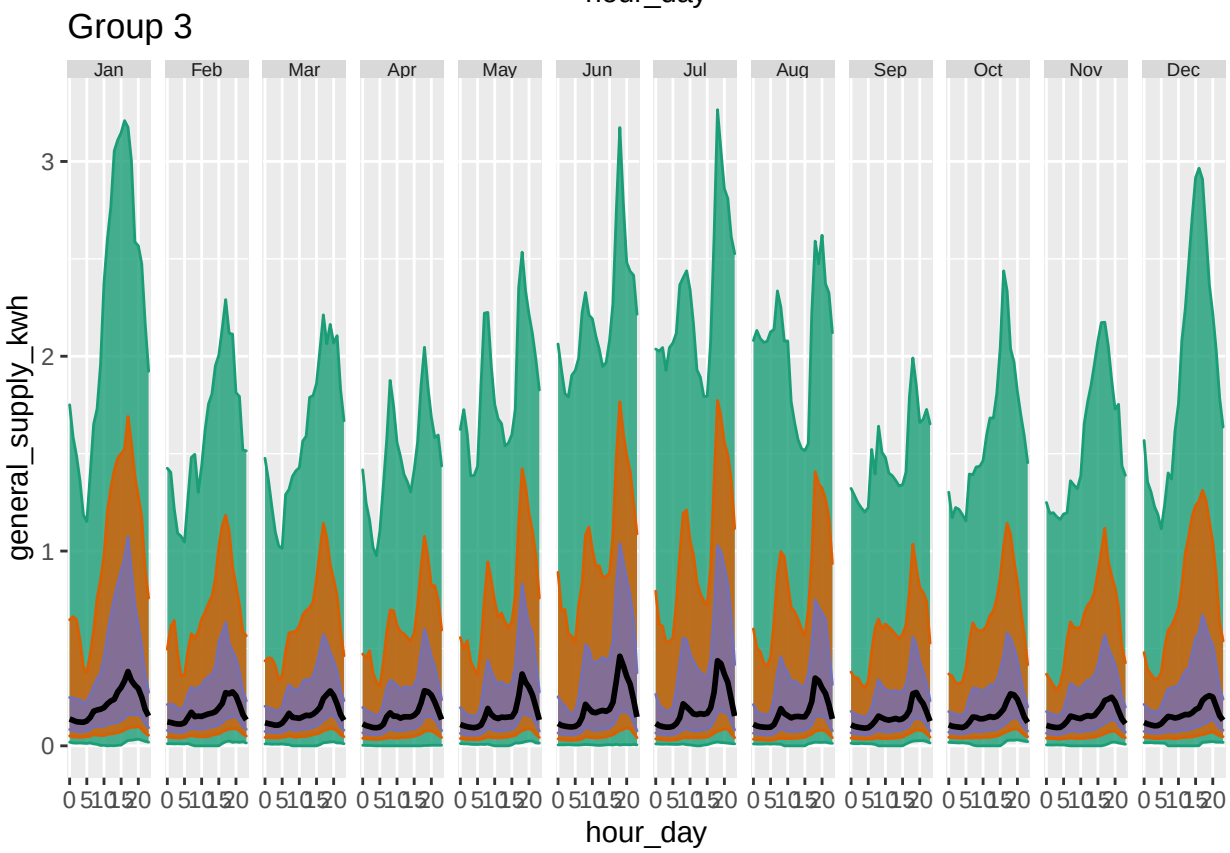

```
## Importance of components:
##                            PC1     PC2     PC3
## Standard deviation     75.3866 28.3062 5.17876
## Proportion of Variance  0.8728  0.1231 0.00412
## Cumulative Proportion   0.8728  0.9959 1.00000
```

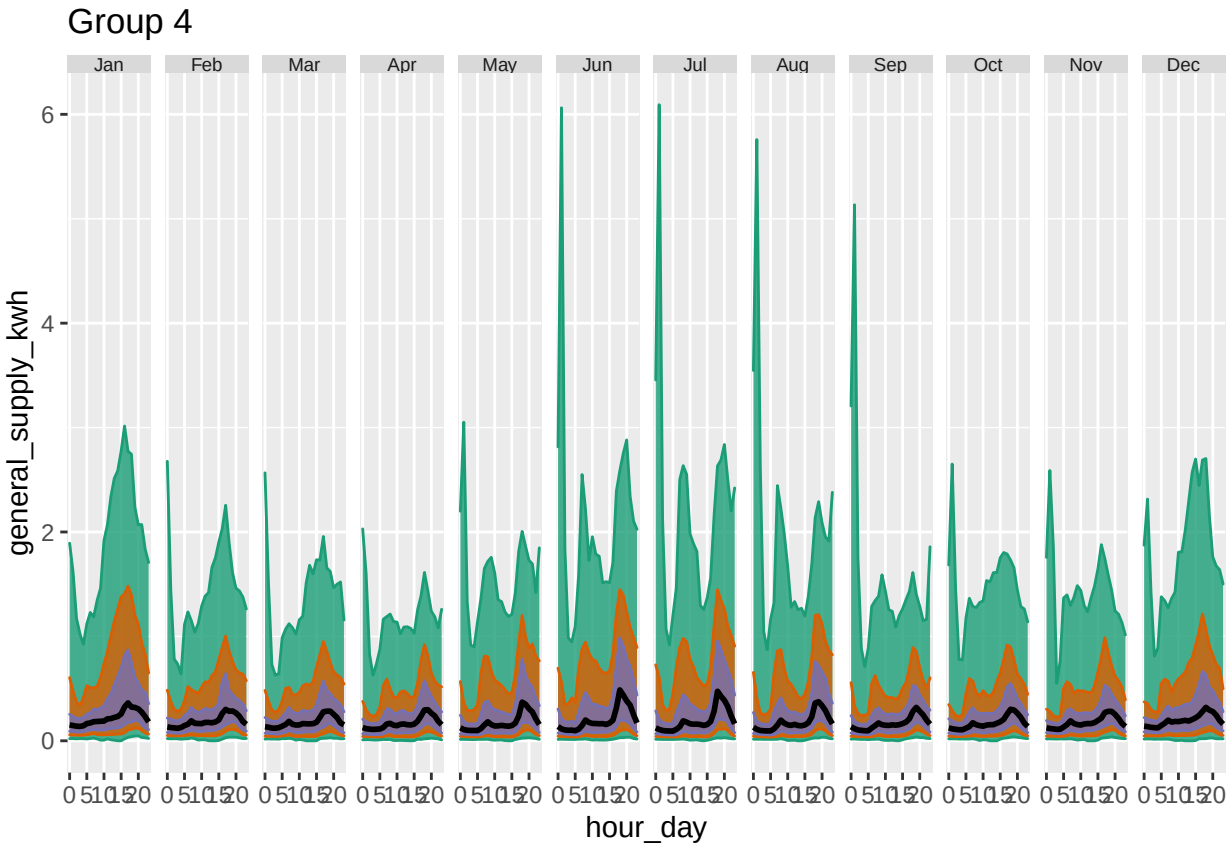

PC2
100
50
0
−50
−200
−150
−100
−50
0
PC1

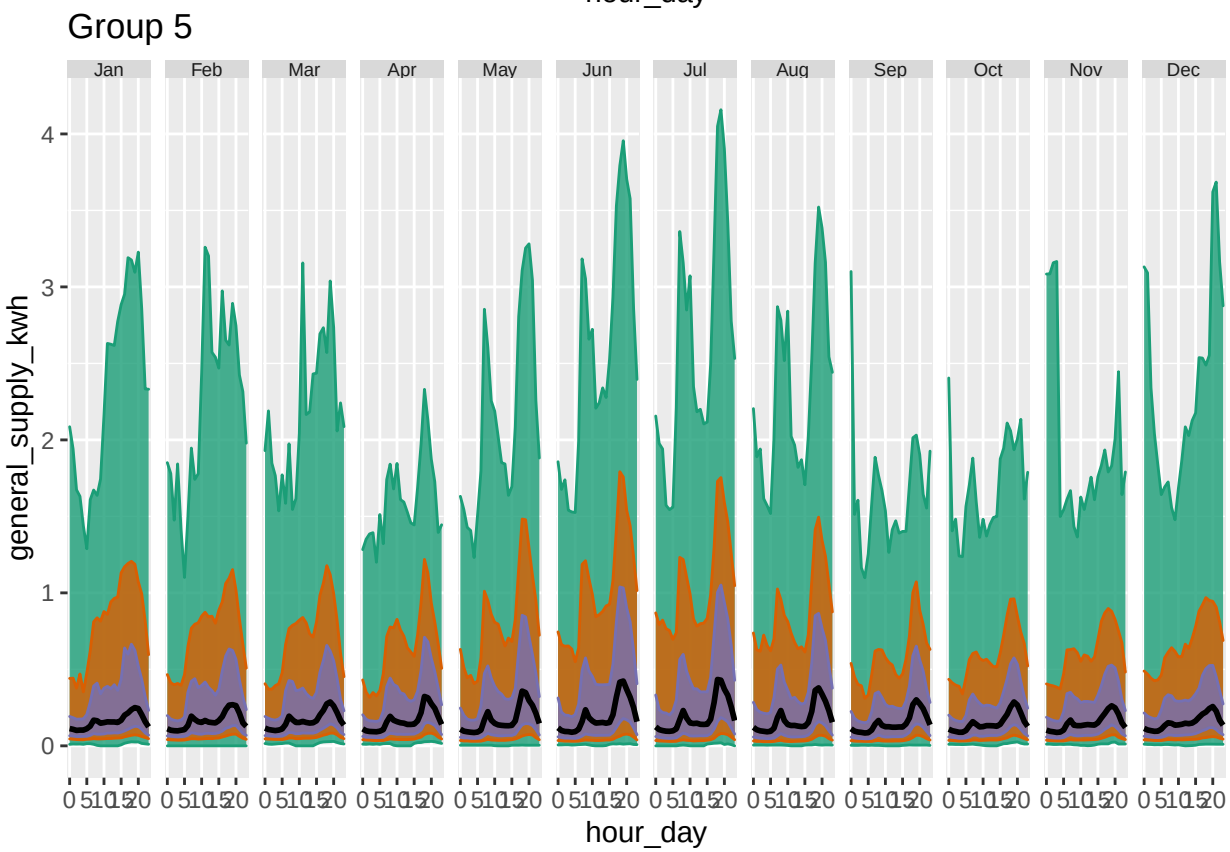
group
1
2
3
4
5
6
7
8
9
10

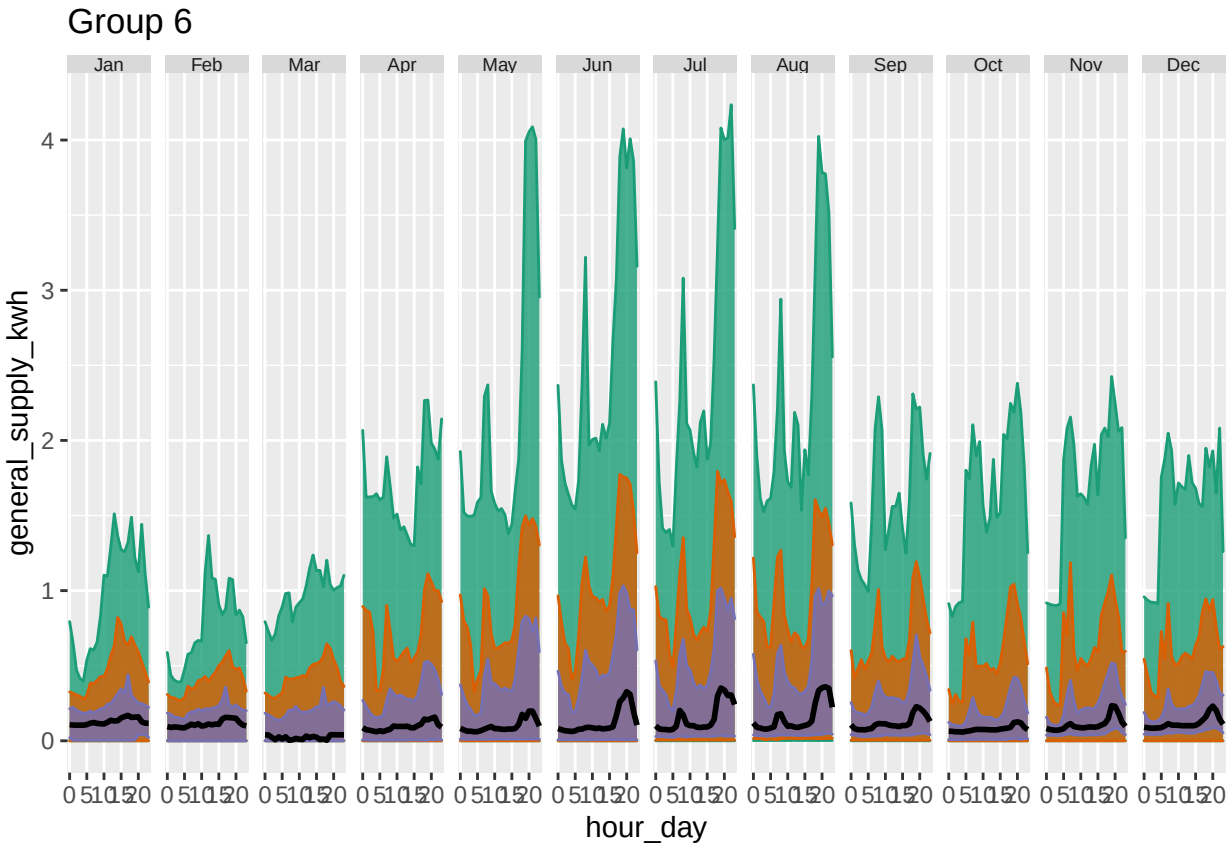

Group 1
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
3
2
1
0
0 5 10 15 20
hour_day

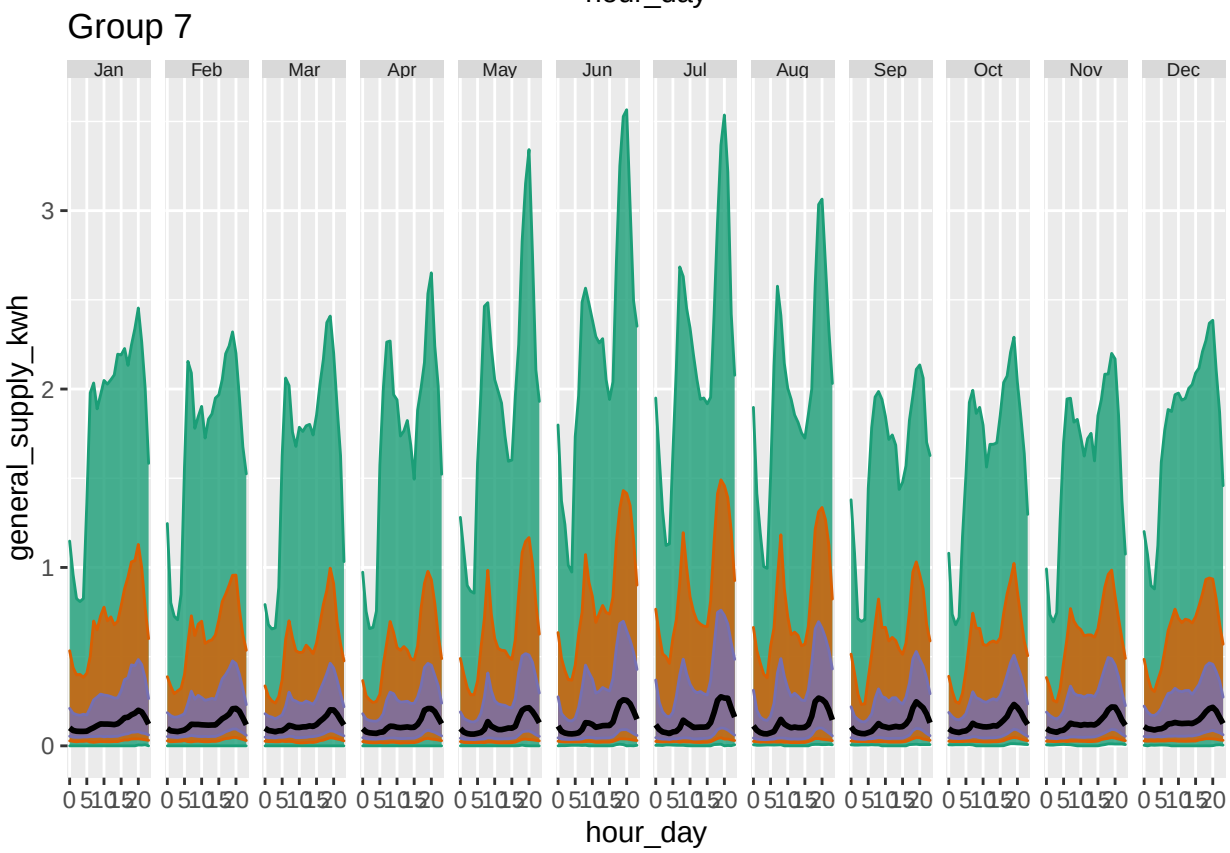

Group 2
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
hour_day

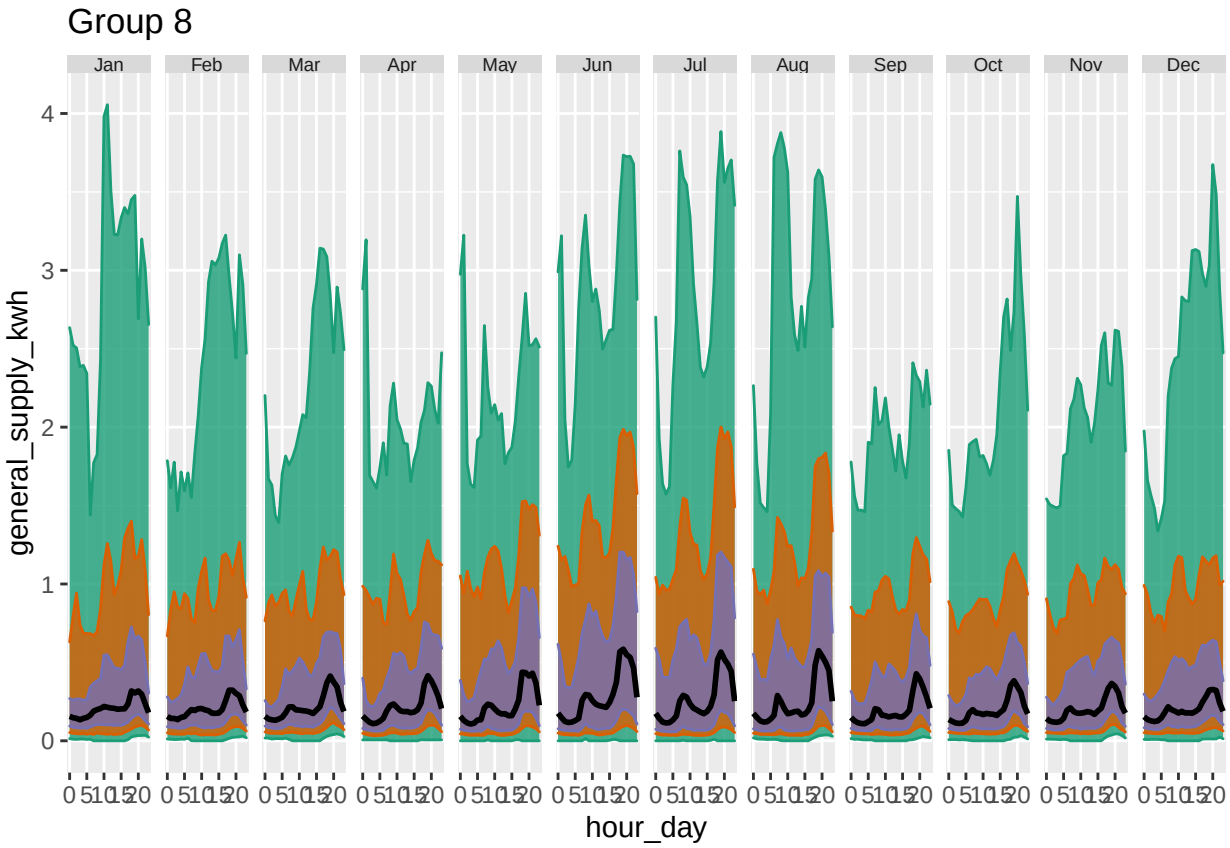

Group 3
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
hour_day

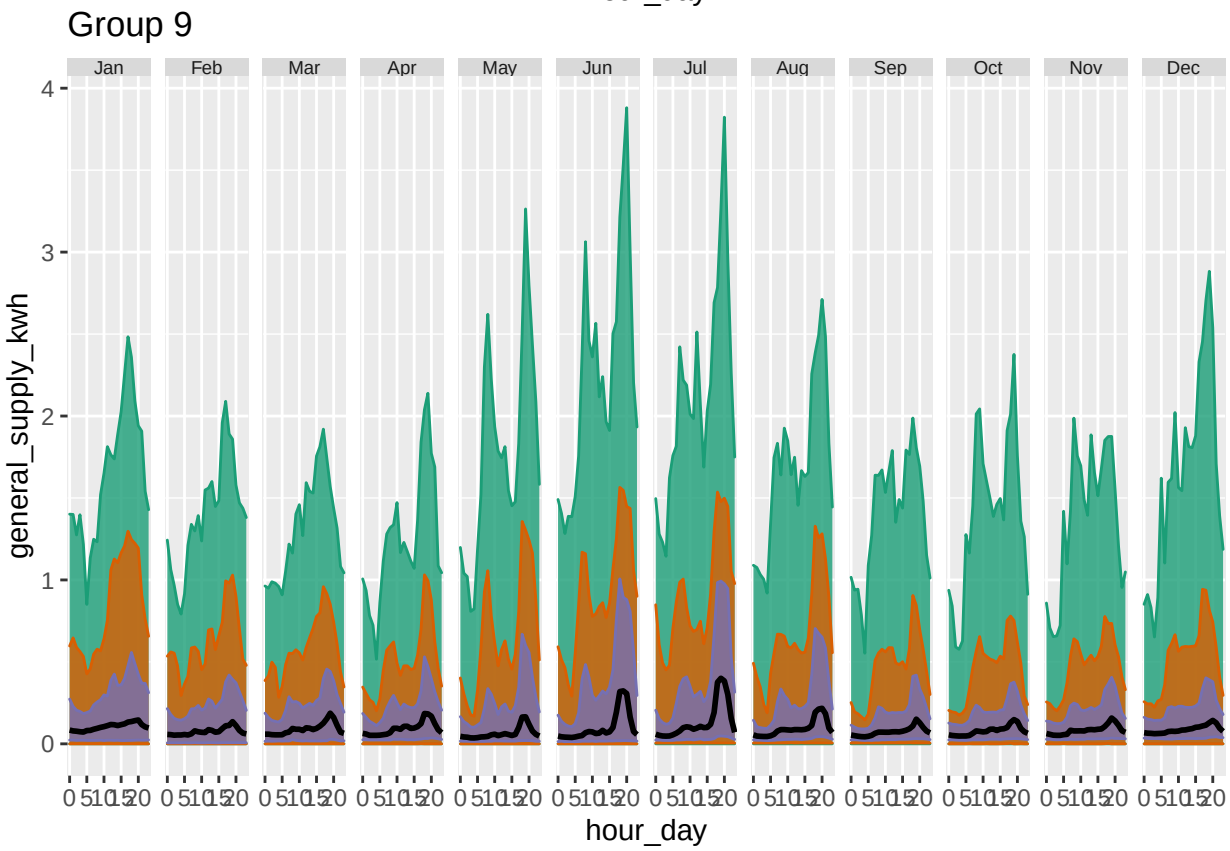

Group 4
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
hour_day

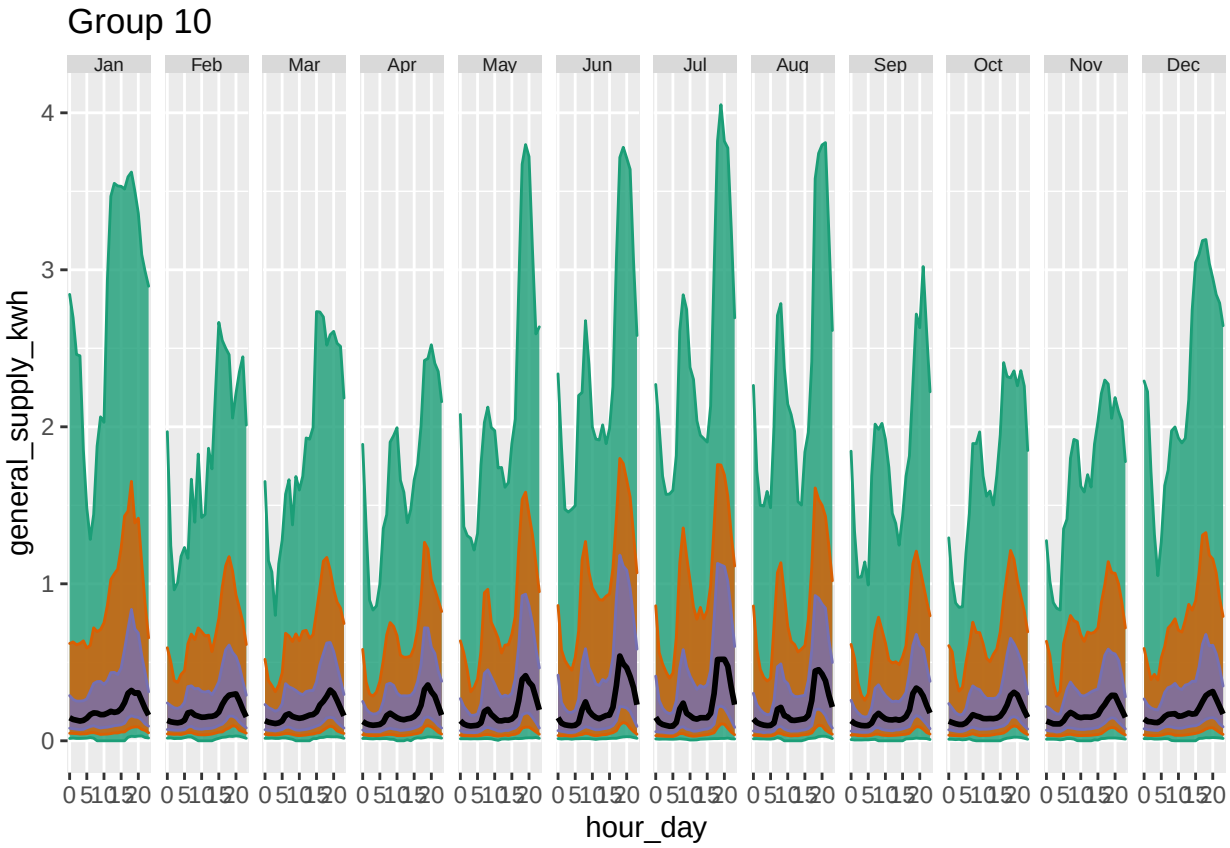

Group 5
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
hour_day


Group 6
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
0
1
2
3
4
0 5 10 15 20
hour_day


Group 7
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
0
1
2
3
0 5 10 15 20
hour_day


Group 8
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
hour_day


Group 9
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
hour_day


Group 10
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
general_supply_kwh
0
1
2
3
4
0 5 10 15 20
hour_day