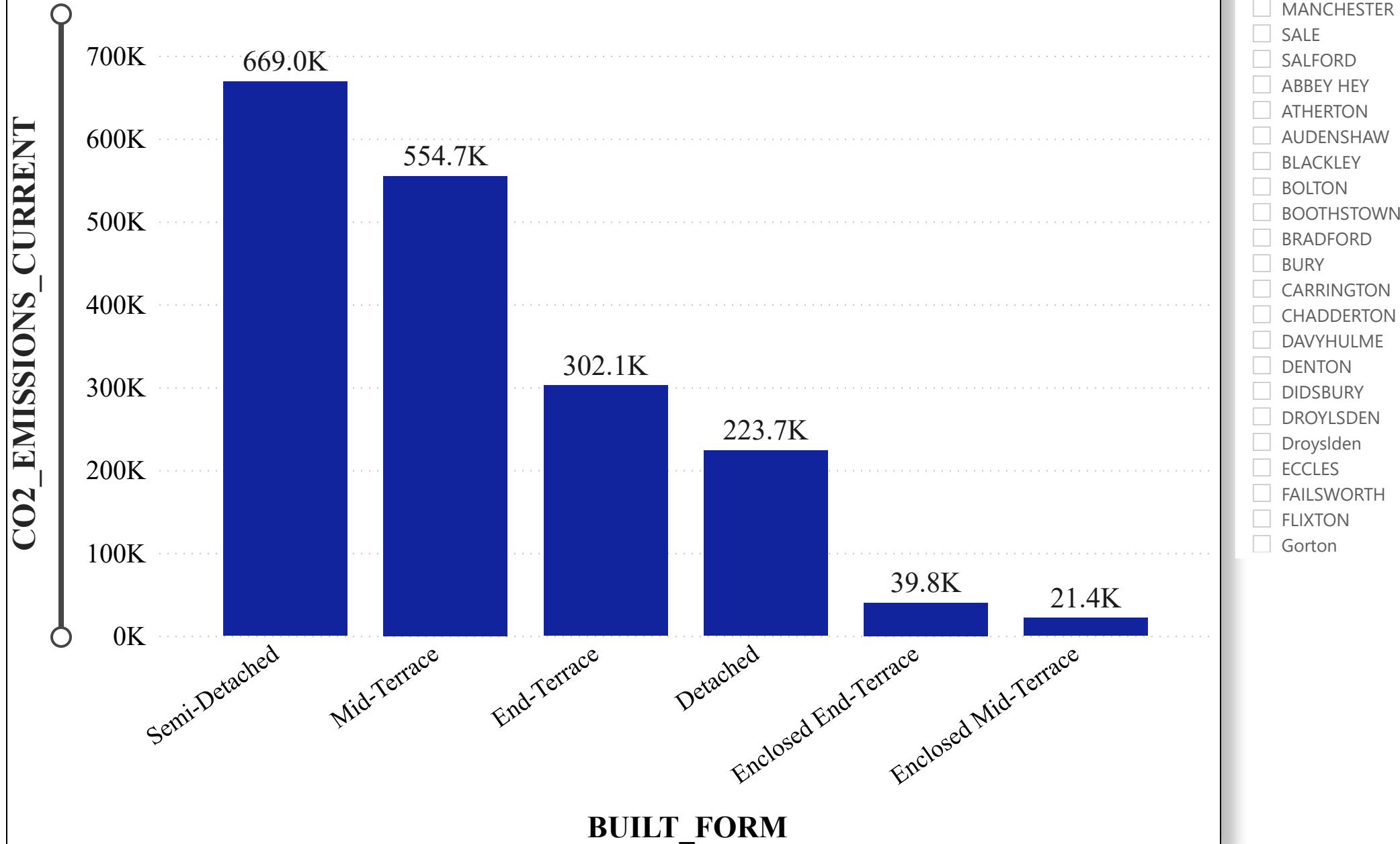
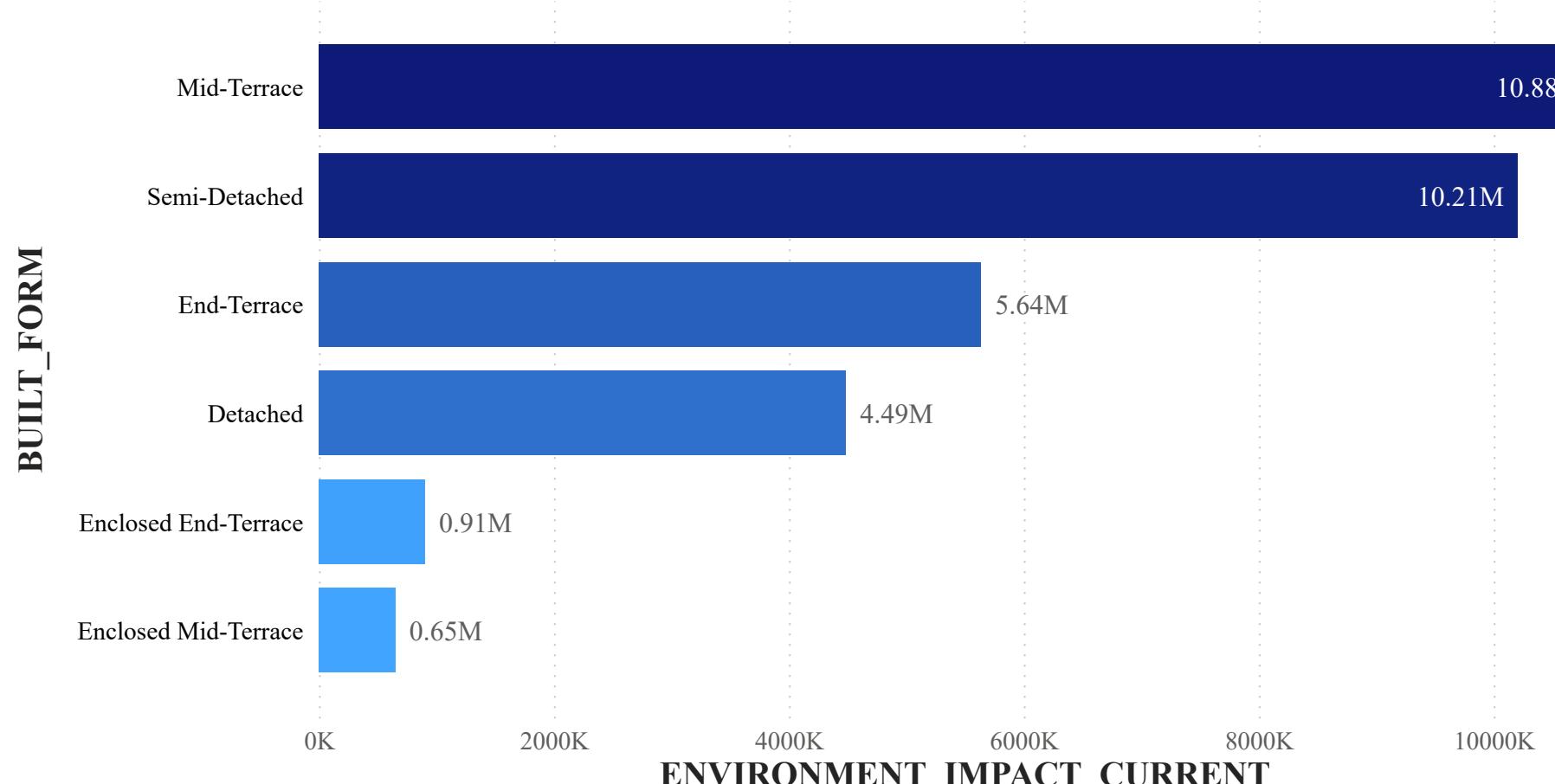


### *CO2 Emissions produced by Different Built forms*

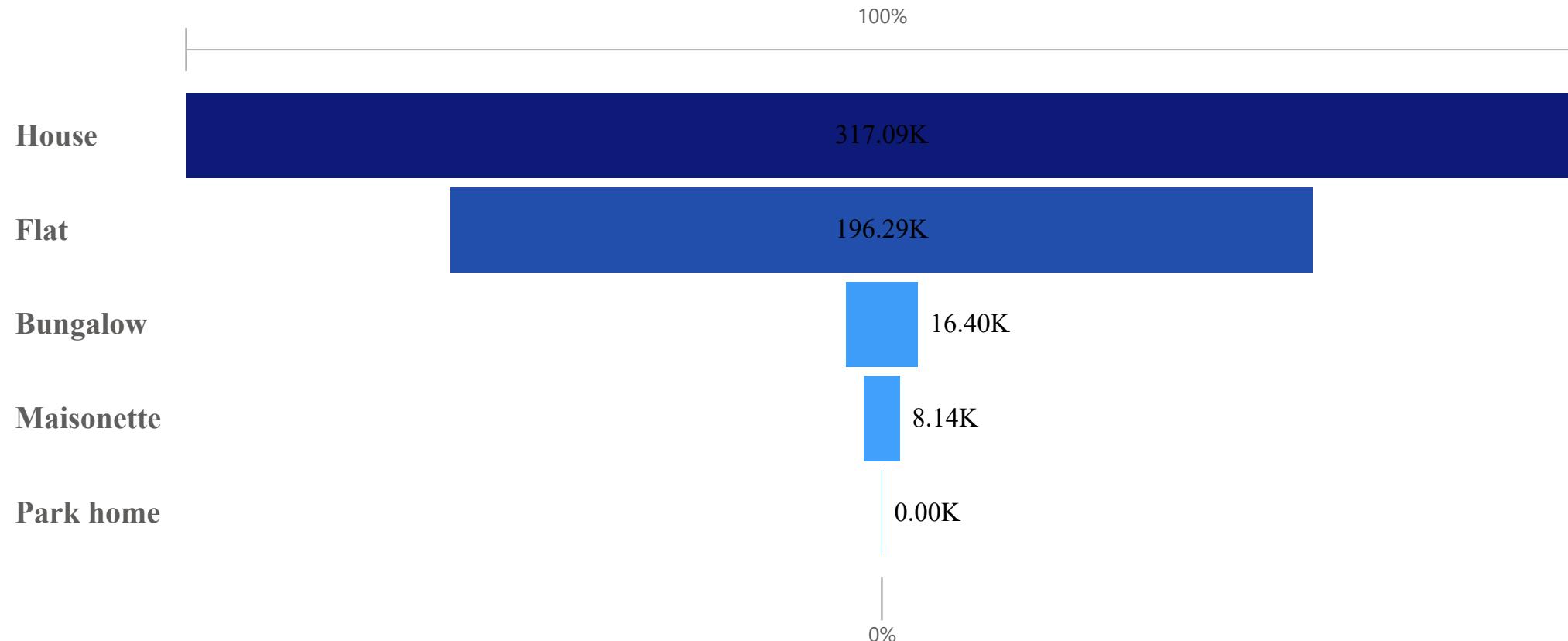


## *ENVIRONMENT\_IMPACT\_CURRENT by BUILT\_FORM*

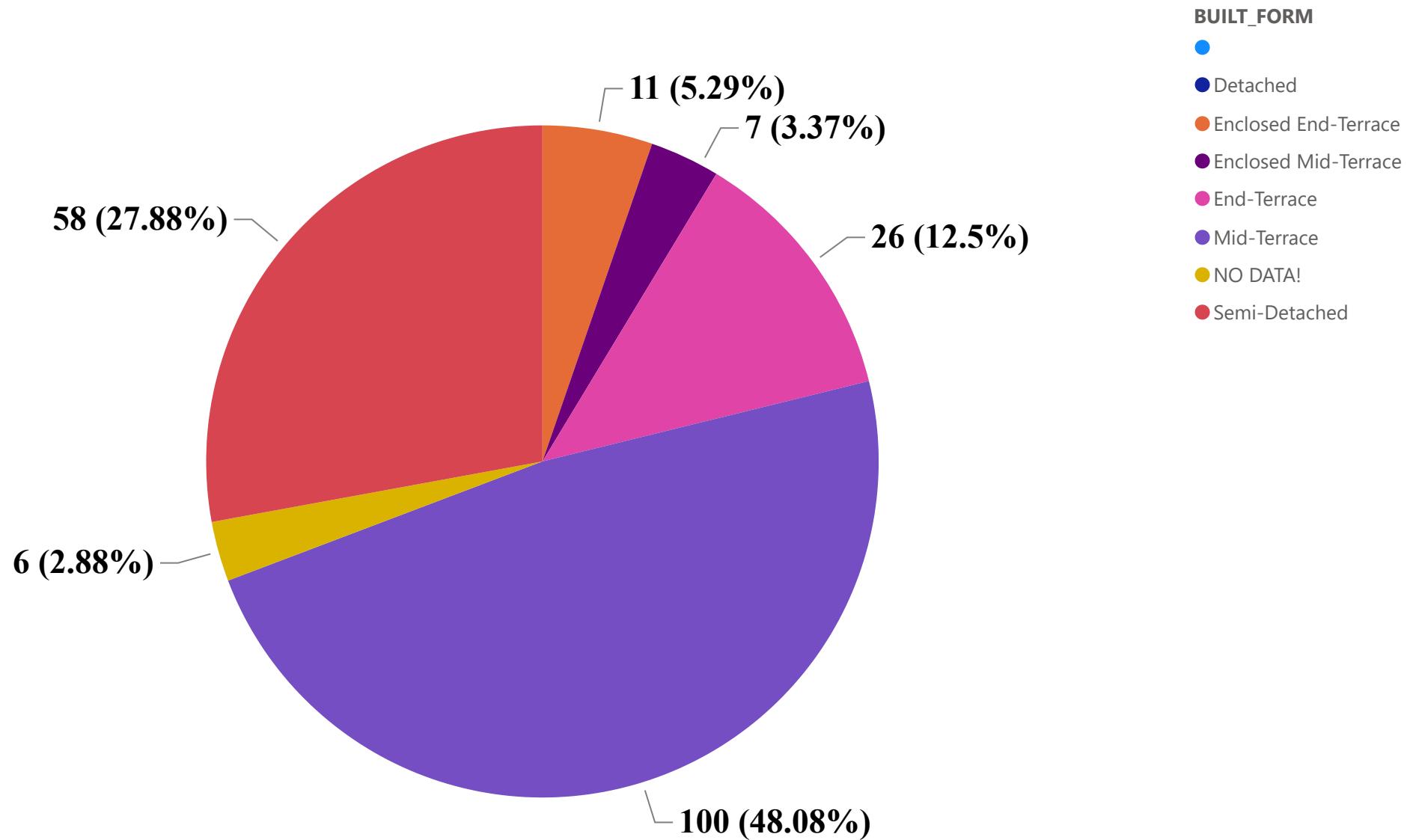
ENVIRONMENT\_IMPACT\_CURRENT 0.65M  10.88M



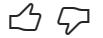
*Count of CURRENT\_ENERGY EFFICIENCY by PROPERTY\_TYPE*



### *WIND\_TURBINE\_COUNT by BUILT\_FORM*



## Key influencers Top segments



What influences CURRENT\_ENERGY EFFICIENCY to  ?

When...

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.09 W/m<sup>-1</sup>K

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.10 W/m<sup>2</sup>K

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.11 W/m<sup>2</sup>K

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.09 W/m<sup>2</sup>K

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.11 W/m<sup>2</sup>K

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.15 W/m<sup>2</sup>K

ROOF\_DESCRIPTION is  
Average thermal  
transmittance 0.11 W/m<sup>-1</sup>K

ROOF\_DESCRIPTION is

...the average of  
CURRENT\_ENERGY EFFICIENCY  
increases by

21.61

19.2

18.71

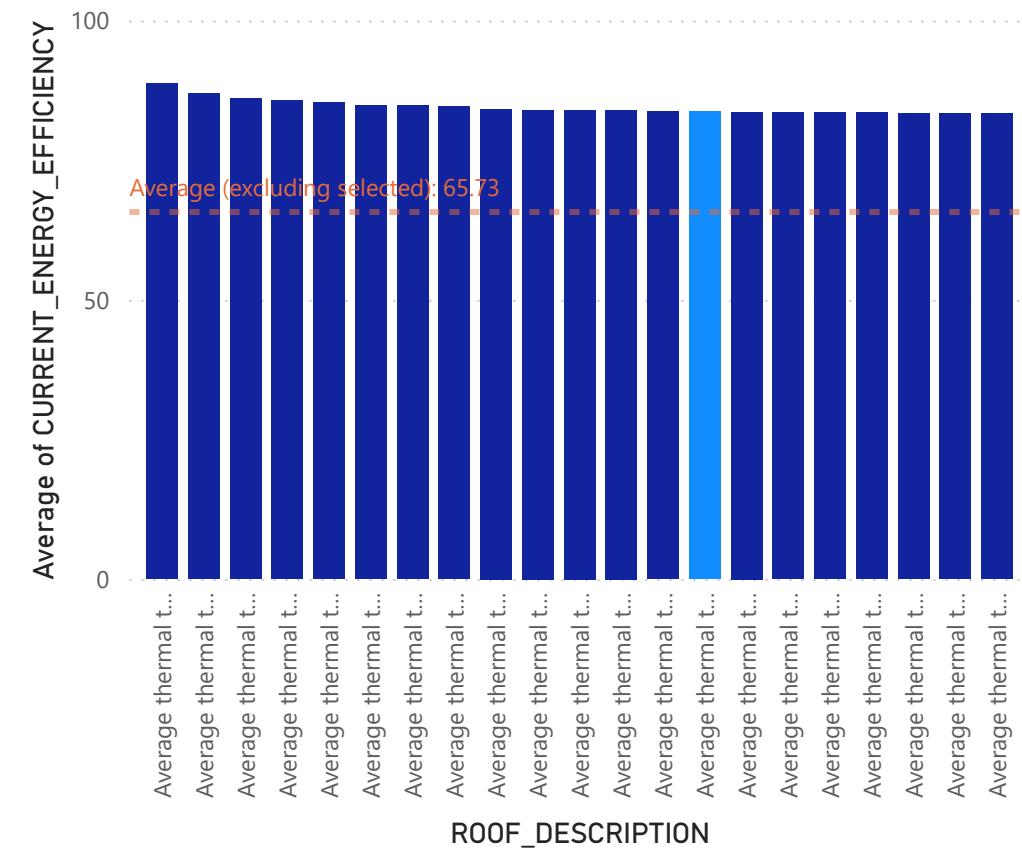
18.44

17.84

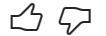
16.9

16.82

← CURRENT\_ENERGY EFFICIENCY is more likely to increase when ROOF\_DESCRIPTION is Average thermal transmittance 0.09 W/m<sup>-1</sup>K than otherwise (on average).



## Key influencers Top segments



What influences PROPERTY\_TYPE to be Bungalow ?

When...

CURRENT\_ENERGY\_EFFICI...  
is more than 88

...the likelihood of  
PROPERTY\_TYPE being  
Bungalow increases by

3.56x

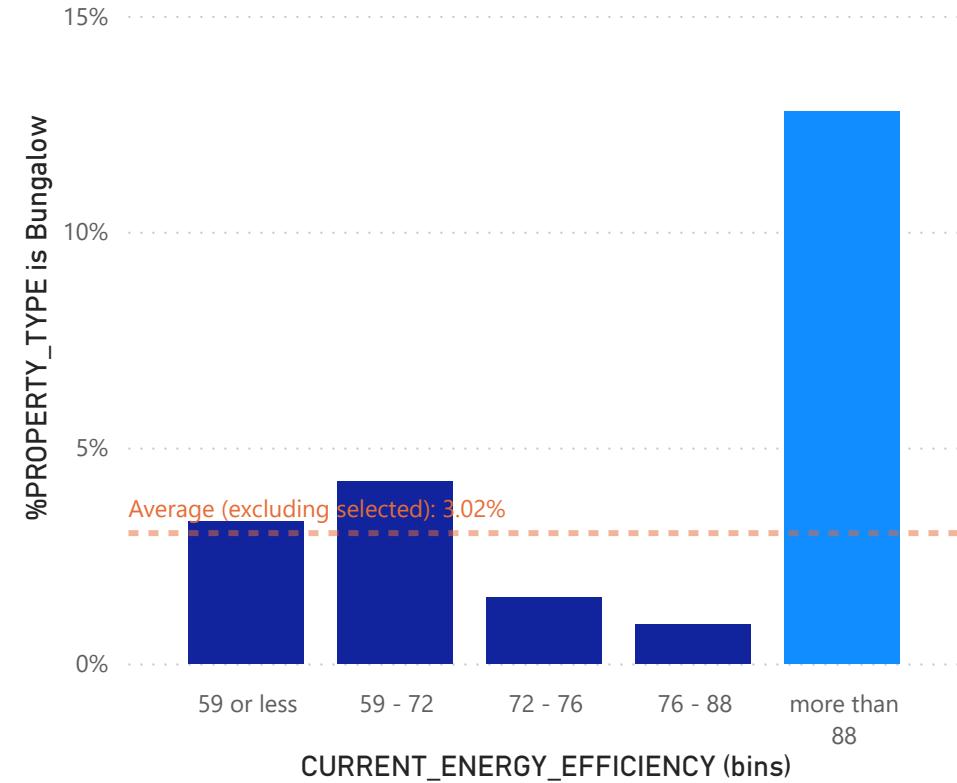
CURRENT\_ENERGY\_EFFICI...  
is 59 - 72

1.98x

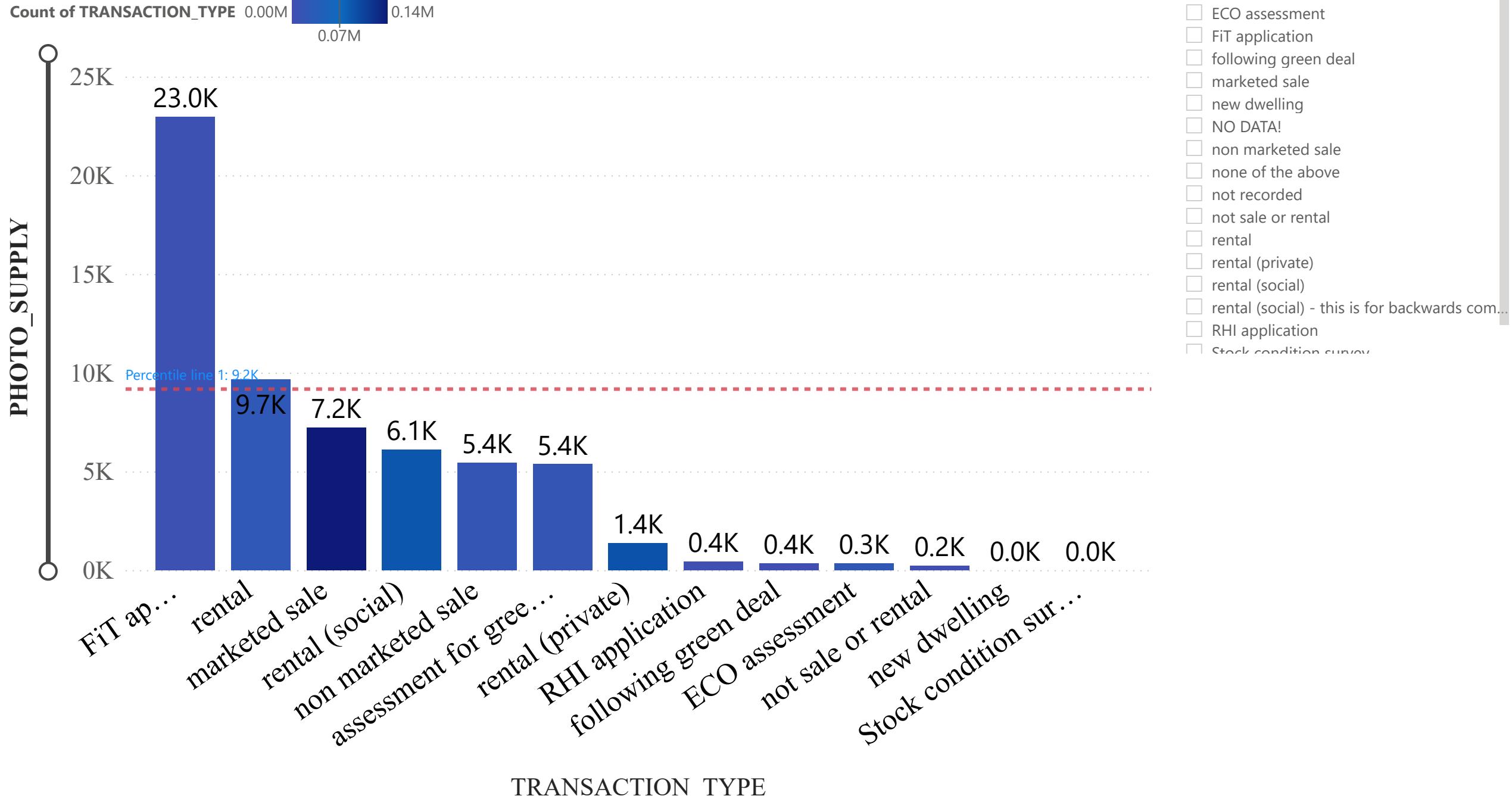
CURRENT\_ENERGY\_EFFICI...  
is 59 or less

1.06x

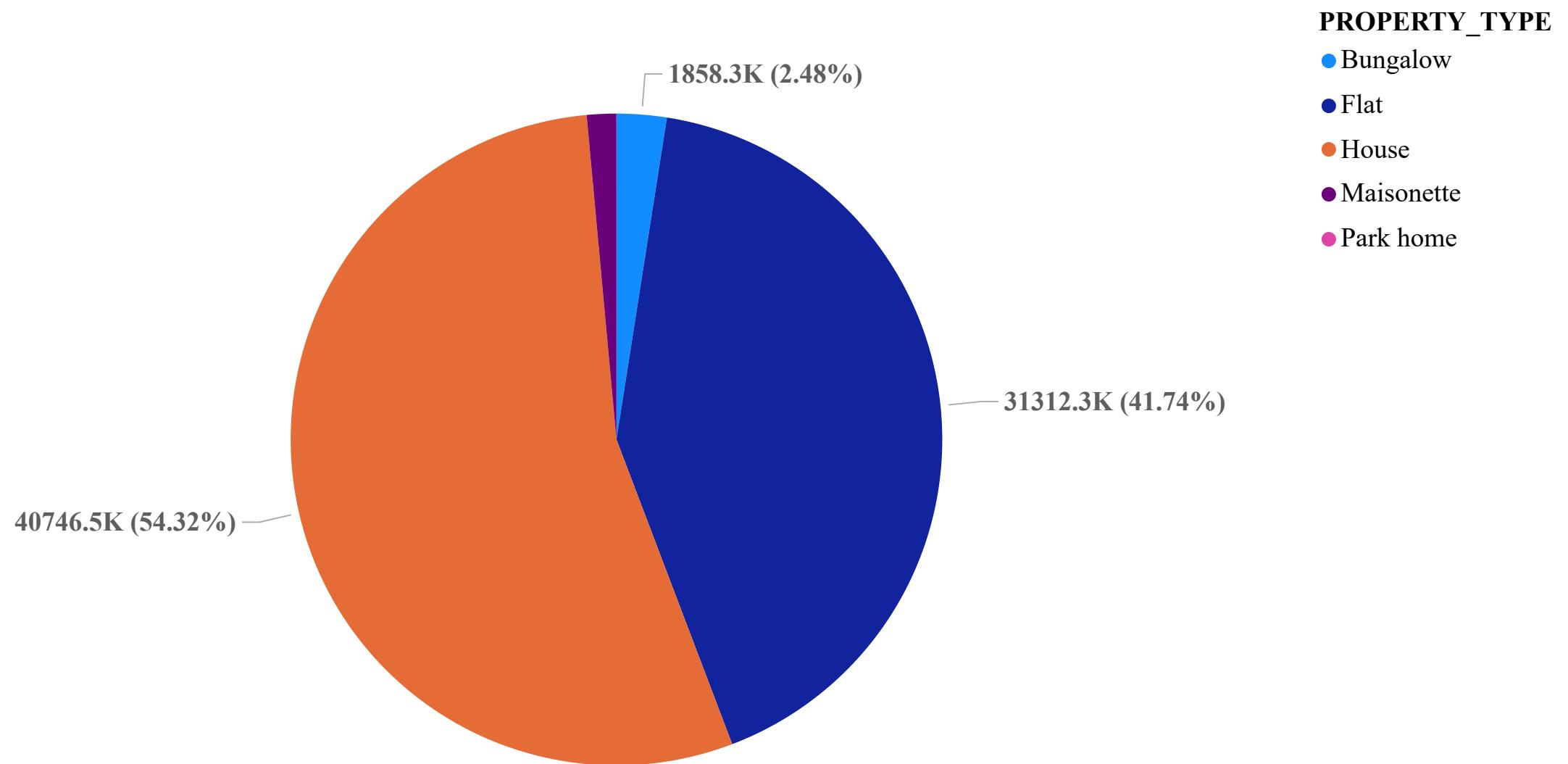
← PROPERTY\_TYPE is more likely to be Bungalow when CURRENT\_ENERGY EFFICIENCY is more than 88 than otherwise (on average).



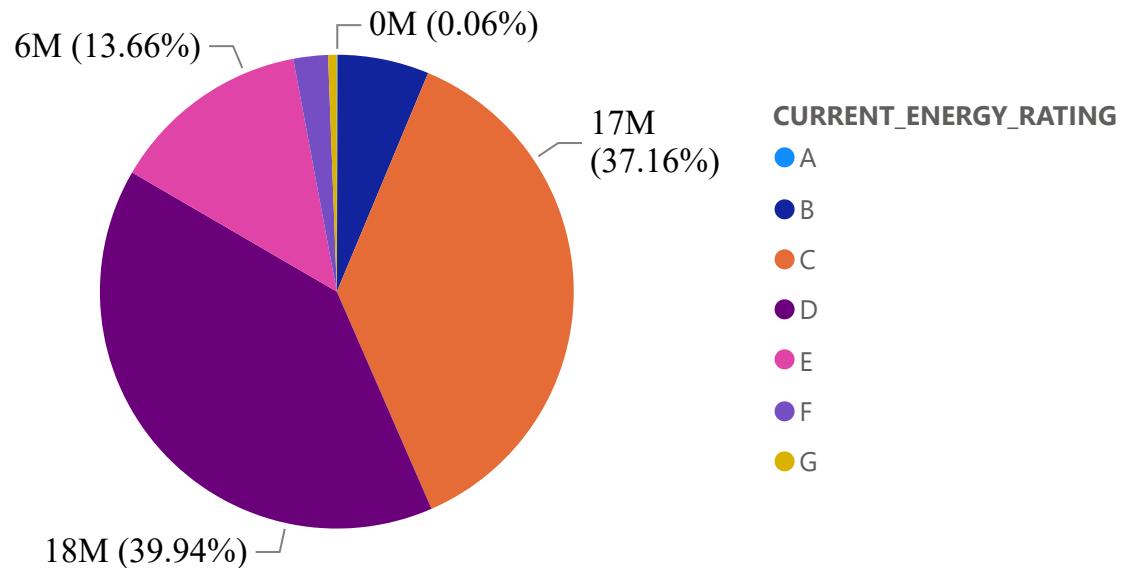
# Installed PV's by differet Transaction types



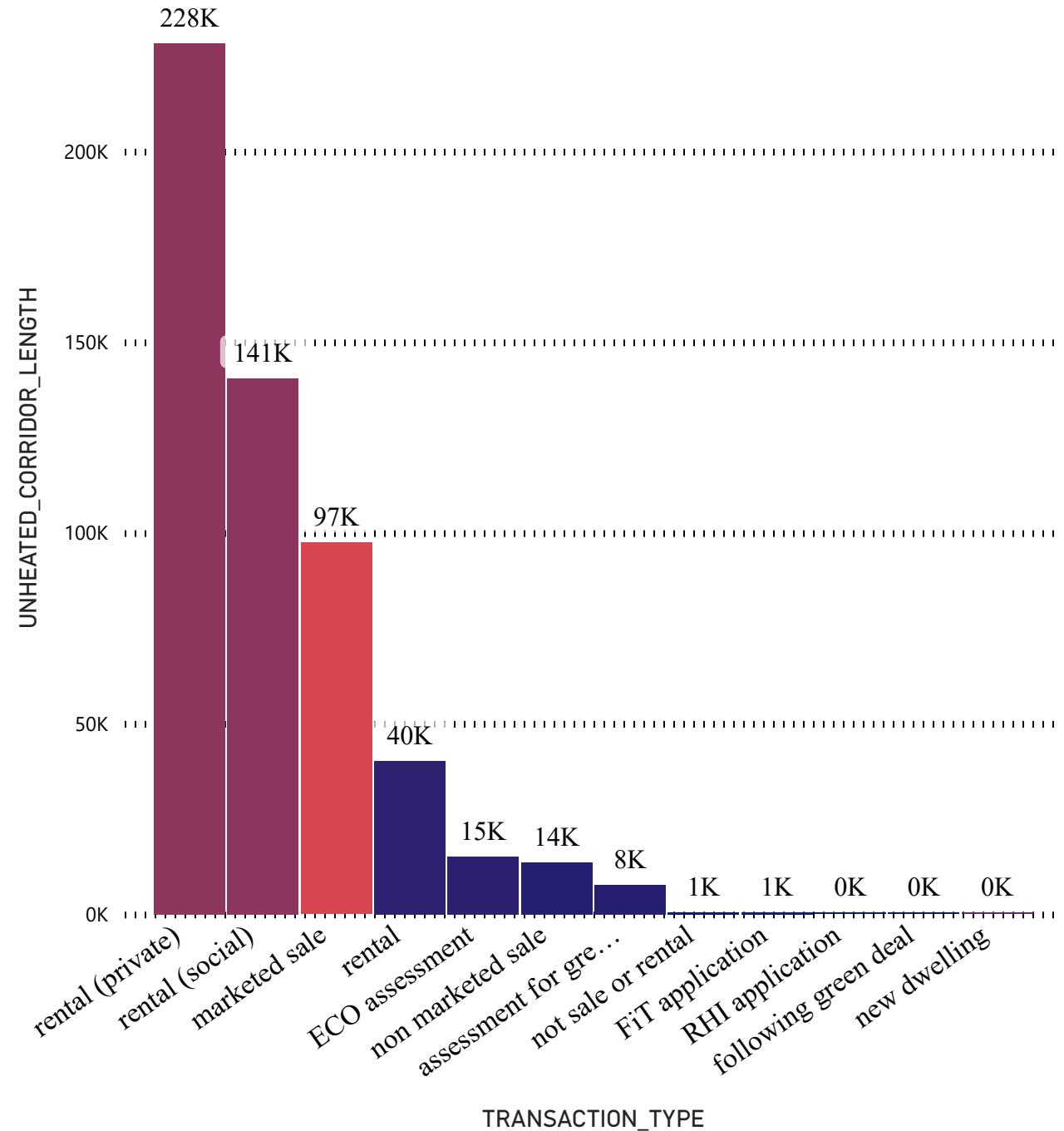
## HOT\_WATER\_COST\_CURRENT by PROPERTY\_TYPE



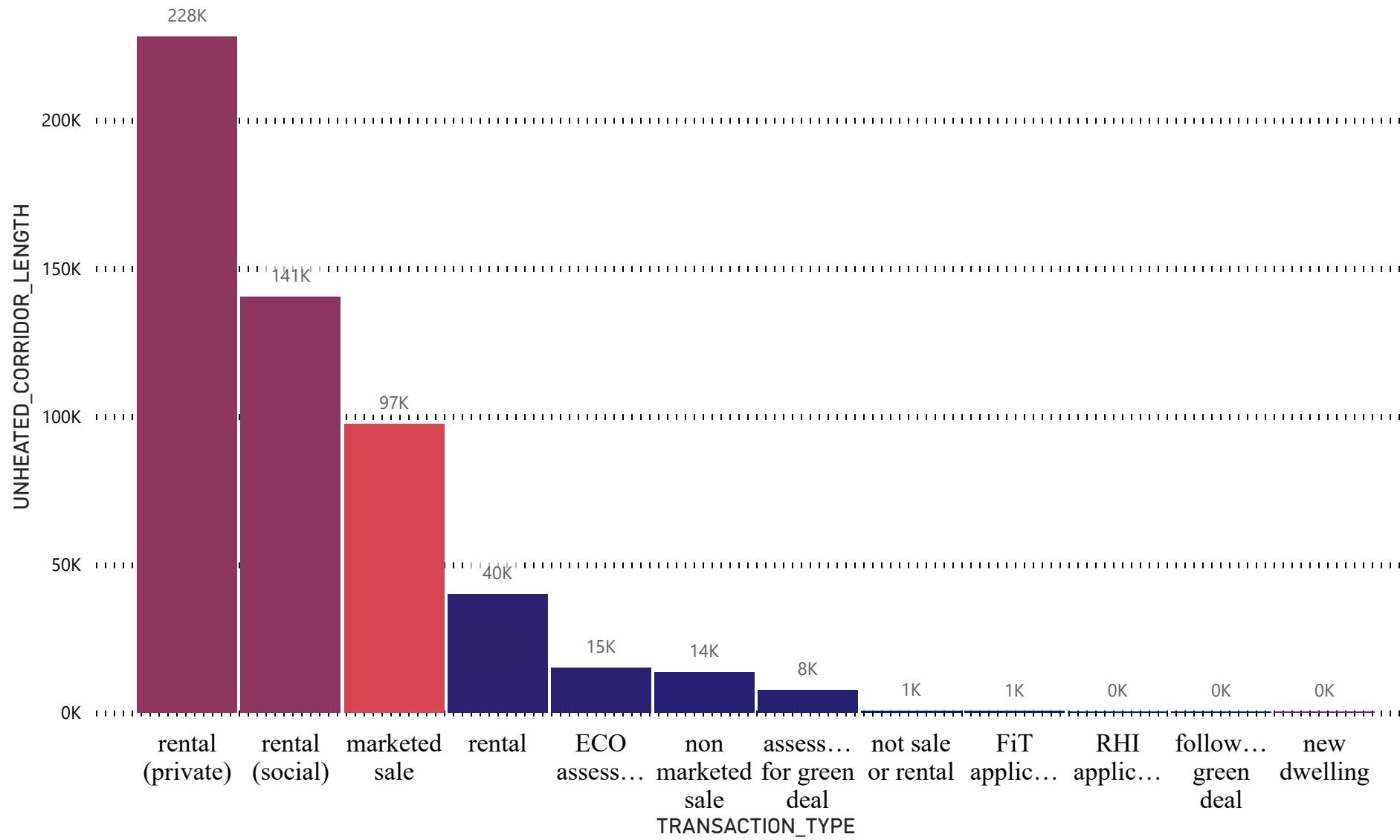
*MULTI\_GLAZE\_PROPORTION by CURRENT\_ENERGY\_RATING*



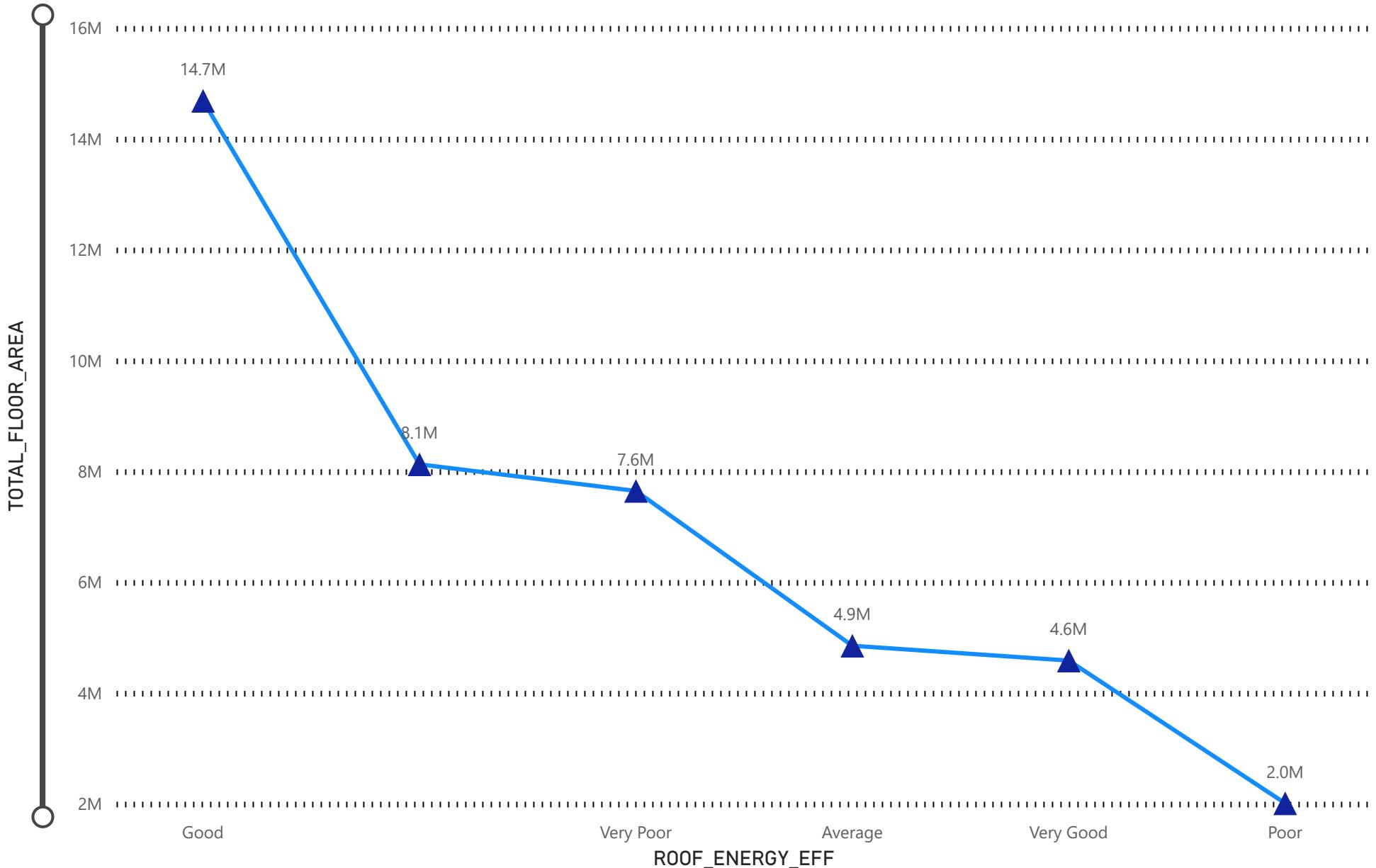
*UNHEATED\_CORRIDOR\_LENGTH by TRANSACTION\_TYPE*



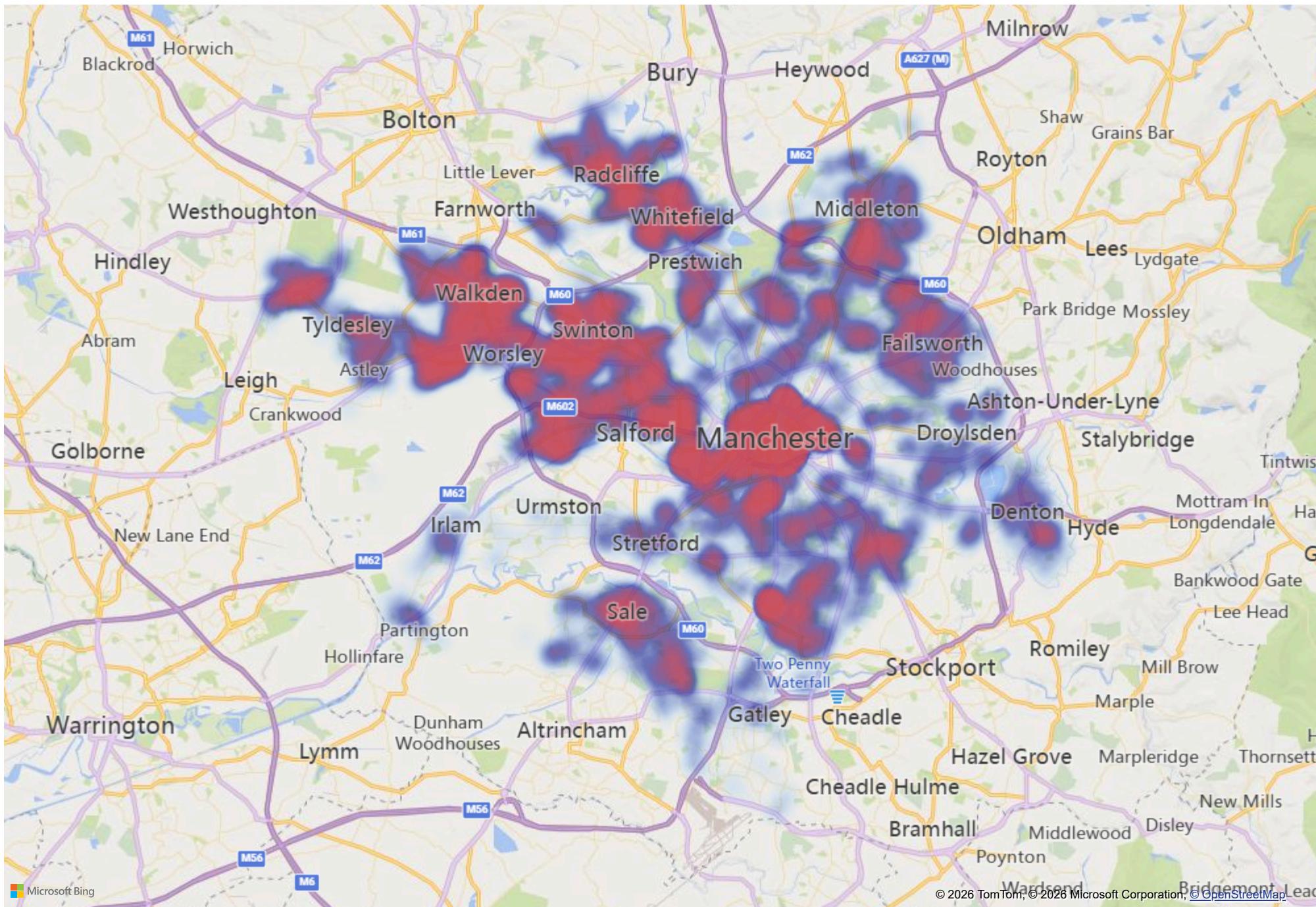
## ***UNHEATED\_CORRIDOR\_LENGTH by TRANSACTION\_TYPE***



## ***TOTAL\_FLOOR\_AREA by ROOF\_ENERGY\_EFF***



## Count of solar\_suitable by pd\_latitude and pd\_longitude



### POSTTOWN

- MANCHESTER
- SALE
- SALFORD
- ABBEY HEY
- ATHERTON
- AUDENSHAW
- BLACKLEY
- BOLTON
- BOOTHSTOWN
- BRADFORD
- BURY
- CARRINGTON
- CHADDERTON
- DAVYHULME
- DENTON
- DIDSBURY

## NUMBER\_HABITABLE\_ROOMS by BUILT\_FORM

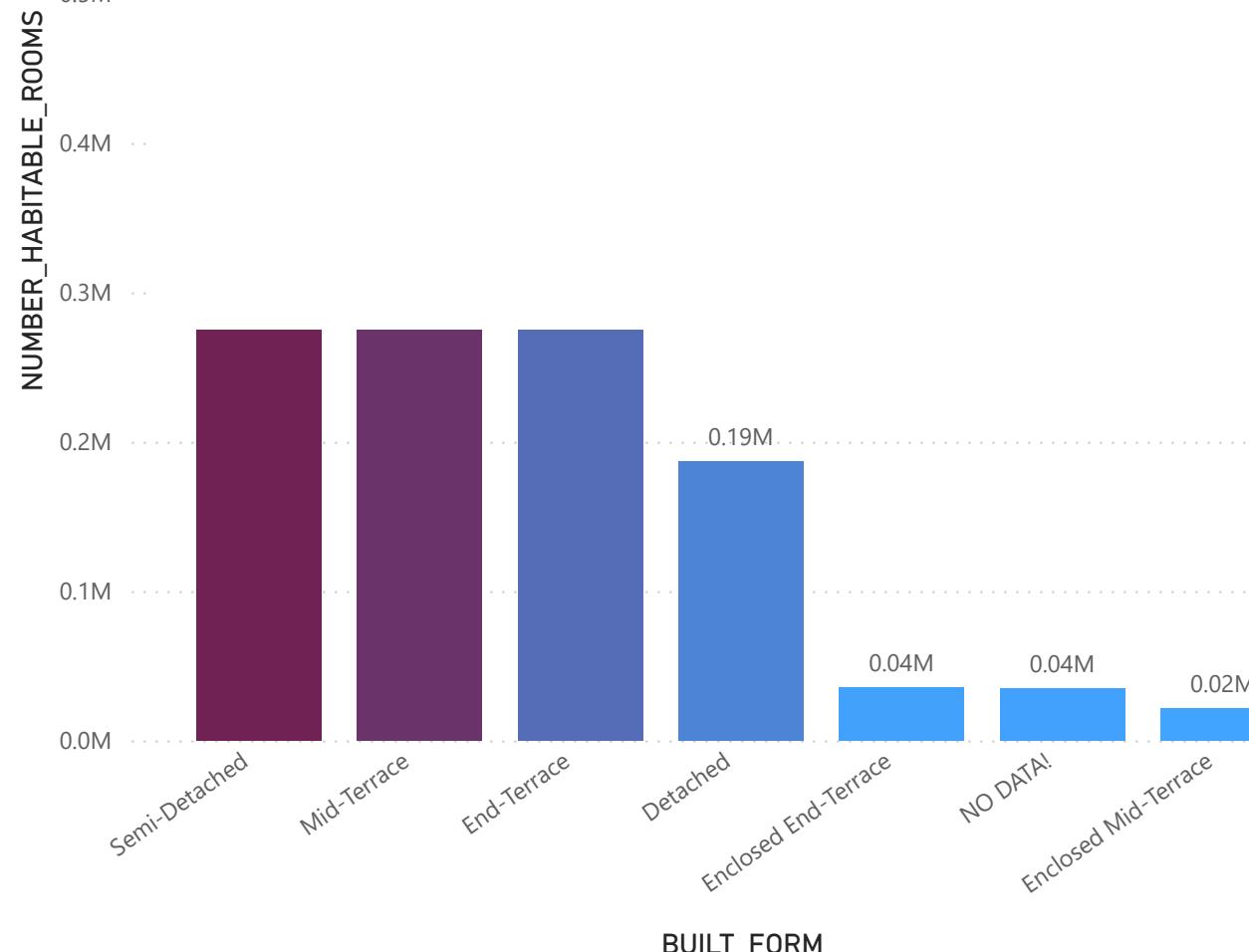
NUMBER\_HABITABLE\_ROOMS 0.02M  0.69M

0.7M  
0.6M  
0.5M  
0.4M  
0.3M  
0.2M  
0.1M  
0.0M

At 692107.0, Semi-Detached had the highest NUMBER\_HABITABLE\_ROOMS and was 3,069.86% higher than Enclosed Mid-Terrace, which had the lowest NUMBER\_HABITABLE\_ROOMS at 21834.0.

Semi-Detached accounted for 36.75% of NUMBER\_HABITABLE\_ROOMS.

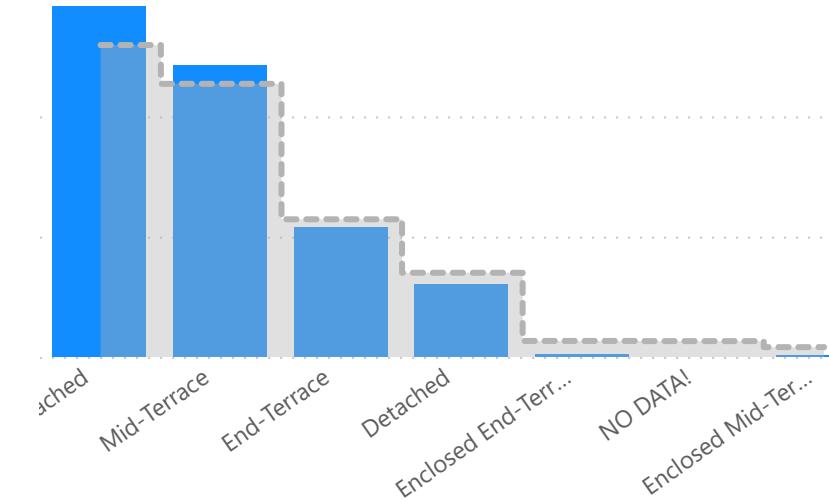
Across all 7 BUILT\_FORM, NUMBER\_HABITABLE\_ROOMS ranged from 21834.0 to 692107.0.



## NUMBER\_HABITABLE\_ROOMS for House and NUMBER\_HABITABLE\_ROOMS by BUILT\_FORM

● NUMBER\_HABITABLE\_ROOMS for House ● NUMBER\_HABITABLE\_ROOMS

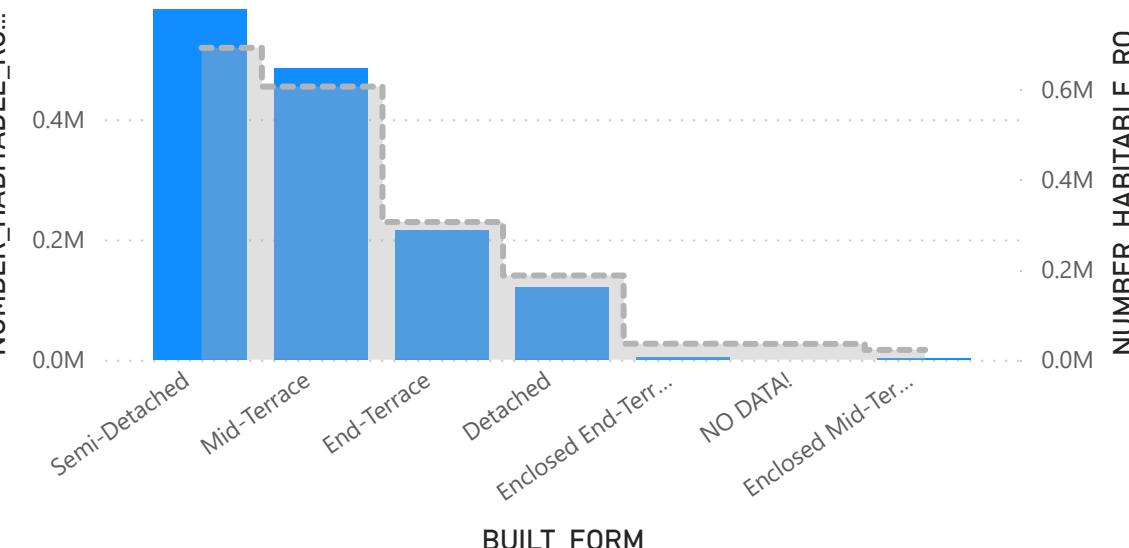
0.7M  
0.6M  
0.5M  
0.4M  
0.3M  
0.2M  
0.1M  
0.0M



## NUMBER\_HABITABLE\_ROOMS for House and NUMBER\_HABITABLE\_ROOMS by BUILT\_FORM

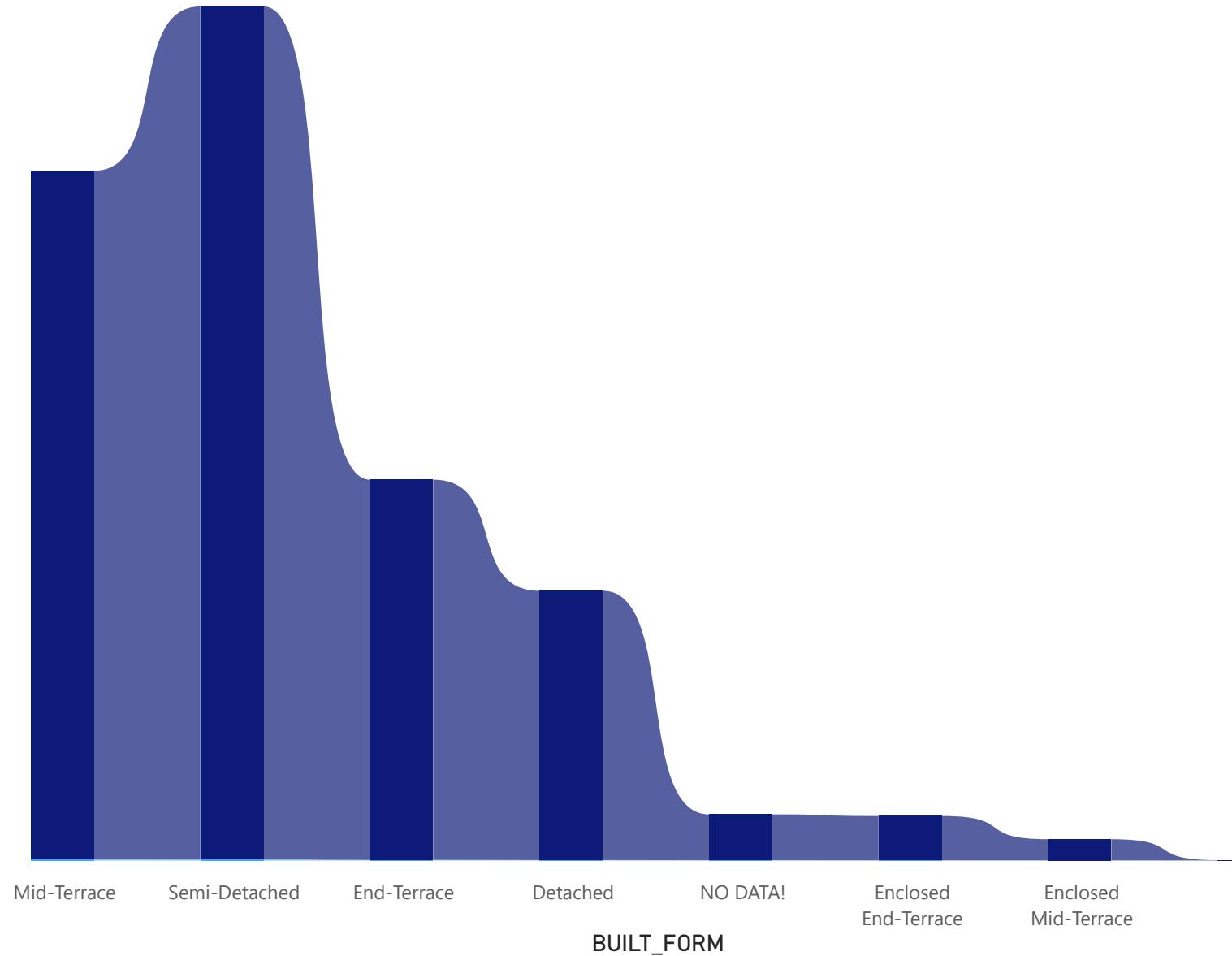
● NUMBER\_HABITABLE\_ROOMS for House ● NUMBER\_HABITABLE\_ROOMS

0.7M  
0.6M  
0.5M  
0.4M  
0.3M  
0.2M  
0.1M  
0.0M



## FLOOR\_HEIGHT and HEATING\_COST\_CURRENT by BUILT\_FORM

● FLOOR\_HEIGHT ● HEATING\_COST\_CURRENT



At 167,688.46, Mid-Terrace had the highest FLOOR\_HEIGHT and was 19,825.67% higher than NO DATA!, which had the lowest FLOOR\_HEIGHT at 841.57.

FLOOR\_HEIGHT and total HEATING\_COST\_CURRENT are positively correlated with each other.

Mid-Terrace accounted for 31.38% of FLOOR\_HEIGHT.

HEATING\_COST\_CURRENT and FLOOR\_HEIGHT diverged the most when the BUILT\_FORM was Semi-Detached, when HEATING\_COST\_CURRENT were 112,013,854.45 higher than FLOOR\_HEIGHT.

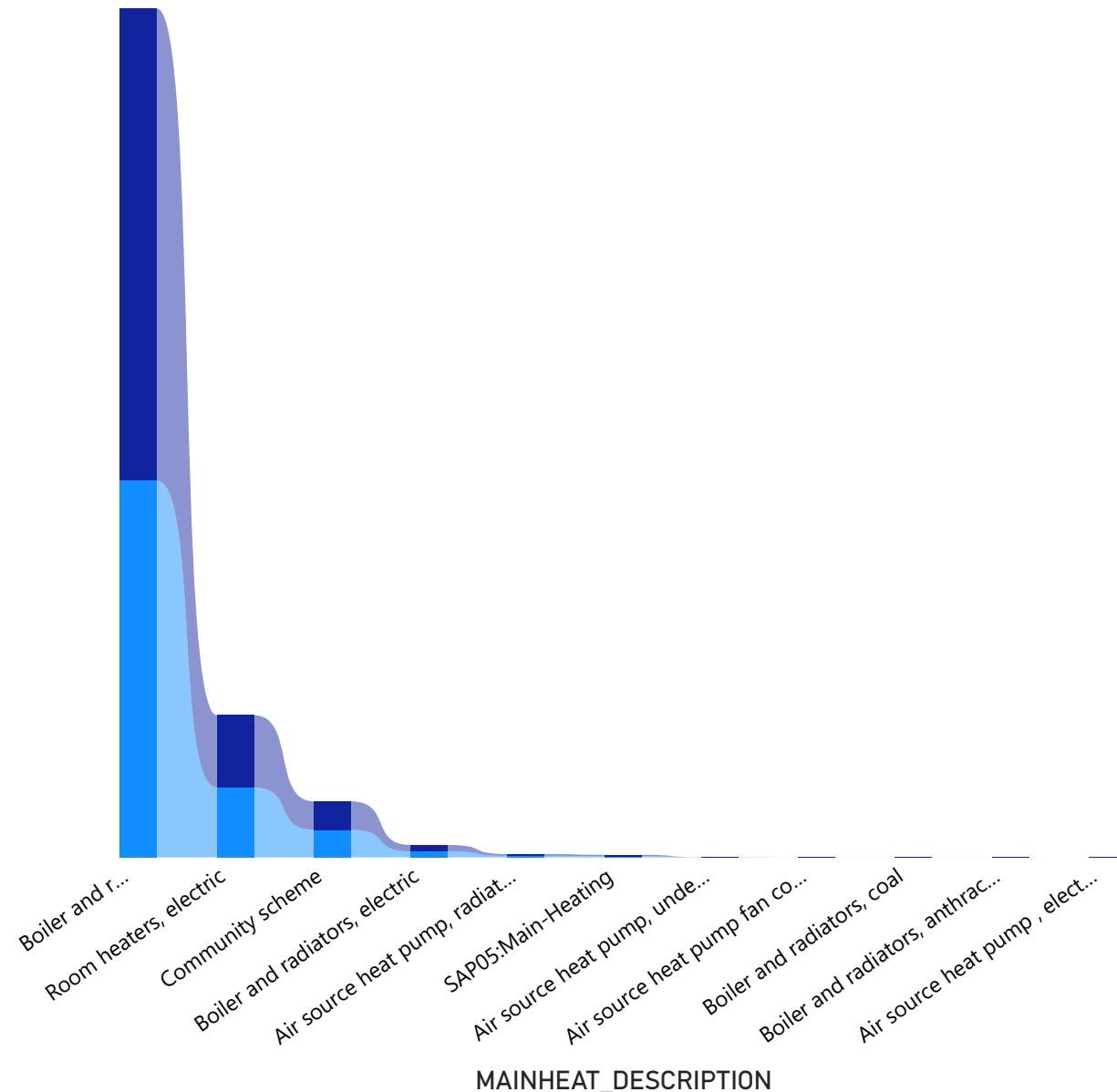
## CO2\_EMISSIONS\_CURRENT and CO2\_EMISSIONS\_POTENTIAL

● CO2\_EMISSIONS\_CURRENT ● CO2\_EMISSIONS\_POTENTIAL



## ENVIRONMENT\_IMPACT\_CURRENT and ENVIRONMENT\_IMPACT\_POTENTIAL by MAINHEAT\_DESCRIPTION

● ENVIRONMENT\_IMPACT\_CURRENT ● ENVIRONMENT\_IMPACT\_POTENTIAL



## Count of PROPERTY\_TYPE by CURRENT\_ENERGY\_RATING

CURRENT\_ENERGY\_RATING ● A ● B ● C ● D ● E ● F ● G

200K

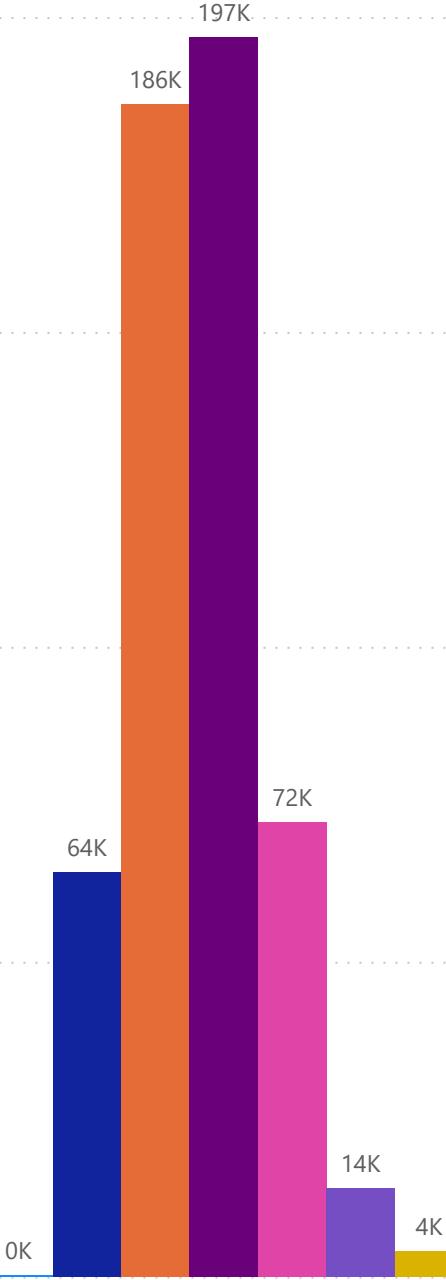
150K

100K

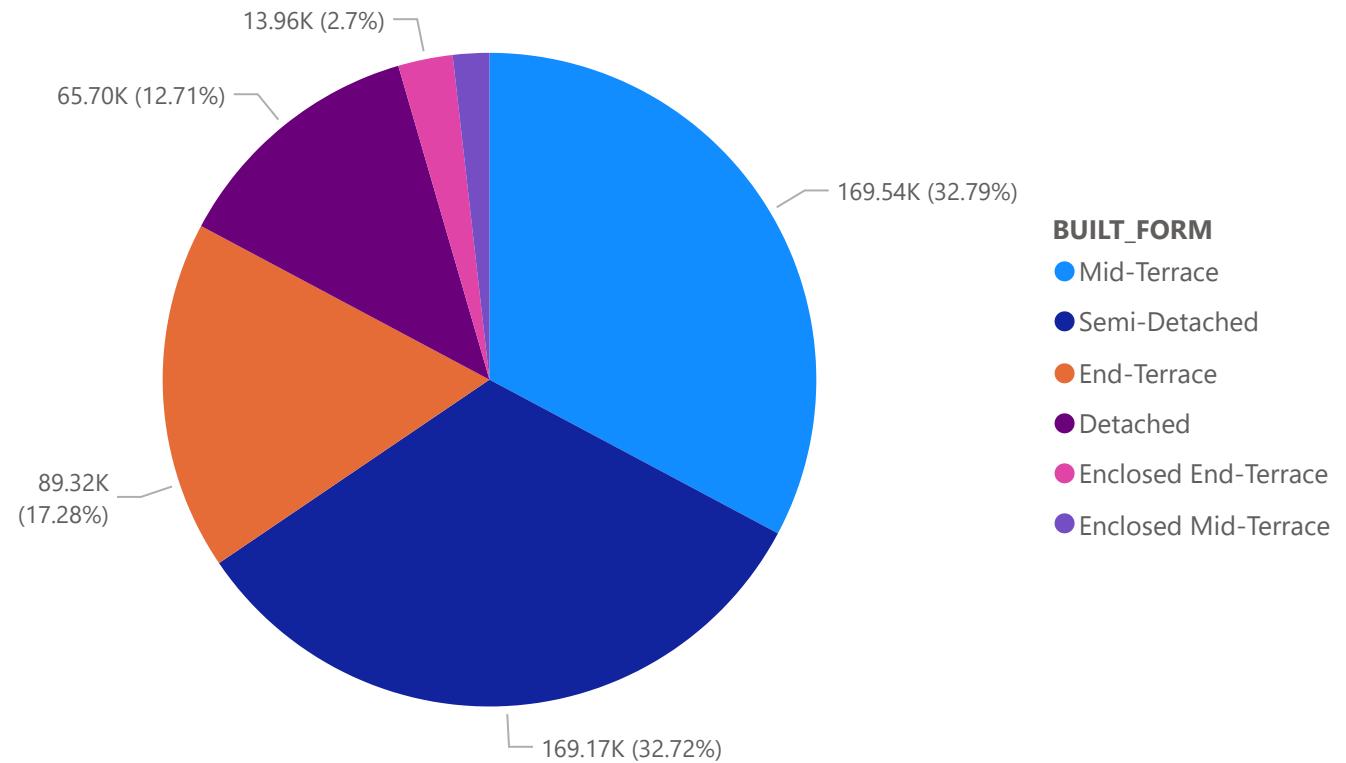
50K

0K

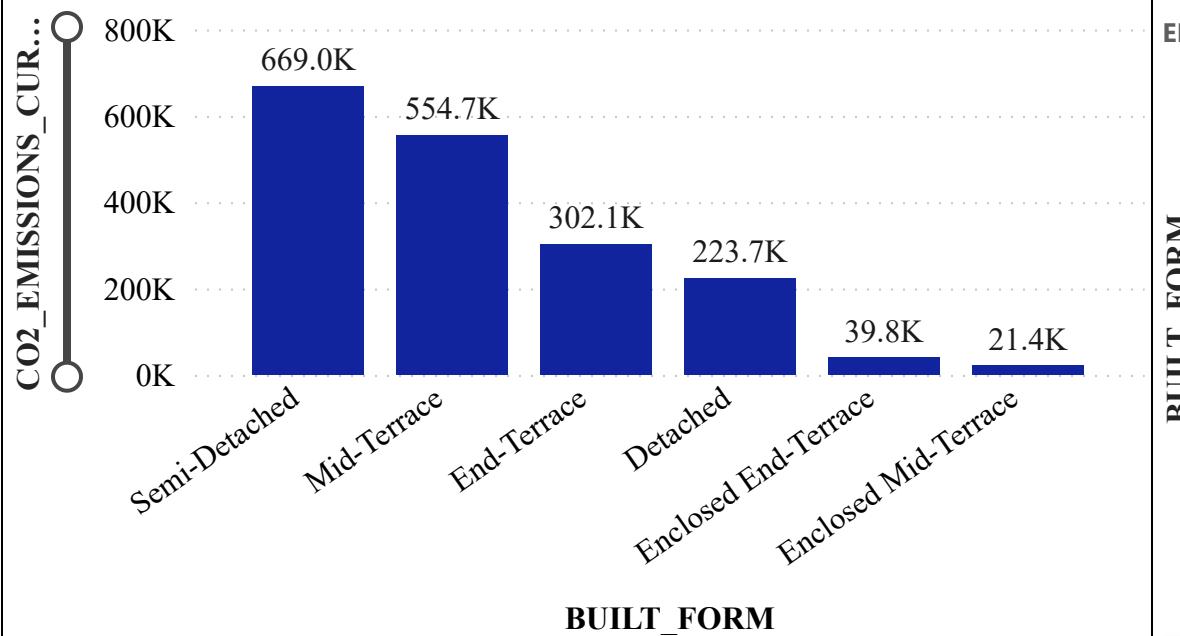
Count of PROPERTY\_TYPE



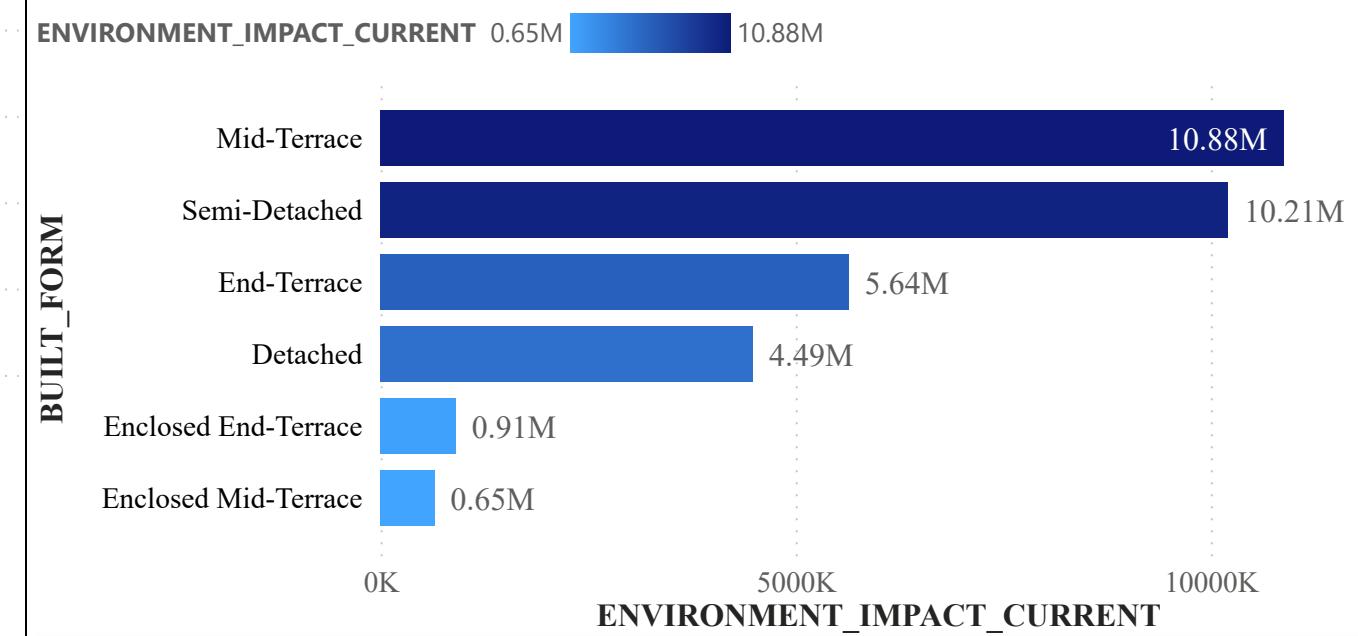
Count of solar\_suitable by BUILT\_FORM



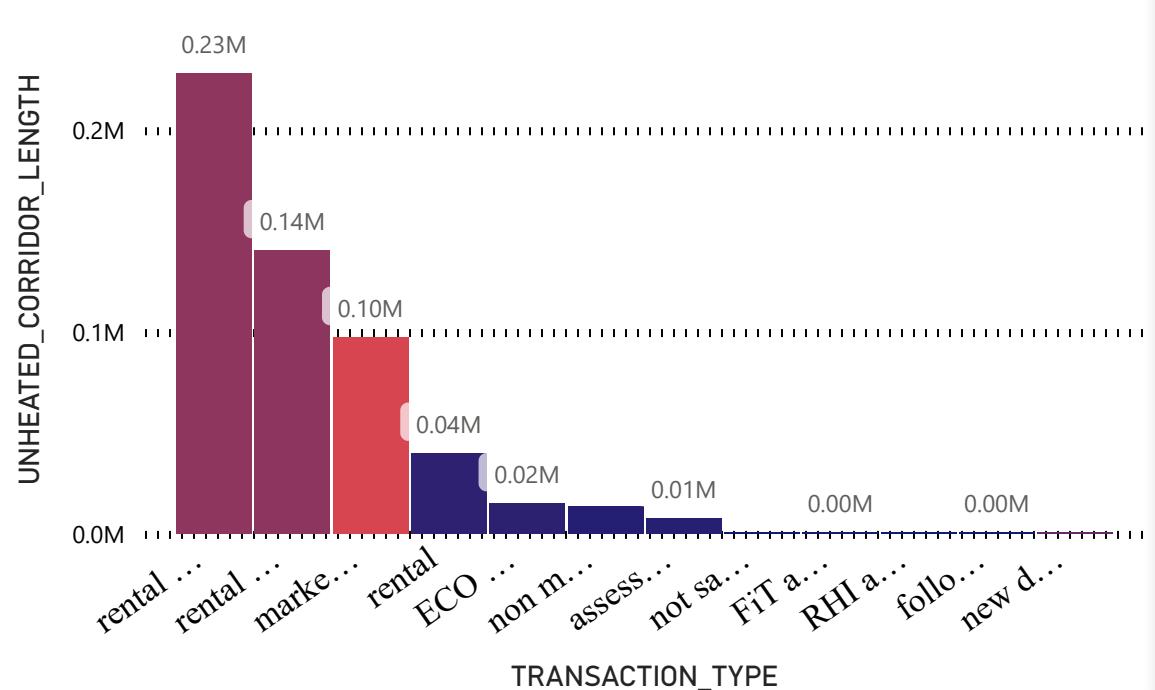
### *CO2 Emissions produced by Different Built forms*



### *ENVIRONMENT\_IMPACT\_CURRENT by BUILT\_FORM*



### *UNHEATED\_CORRIDOR\_LENGTH by TRANSACTION\_TYPE*



### *Count of solar\_suitable by pd\_latitude and pd\_longitude*

