



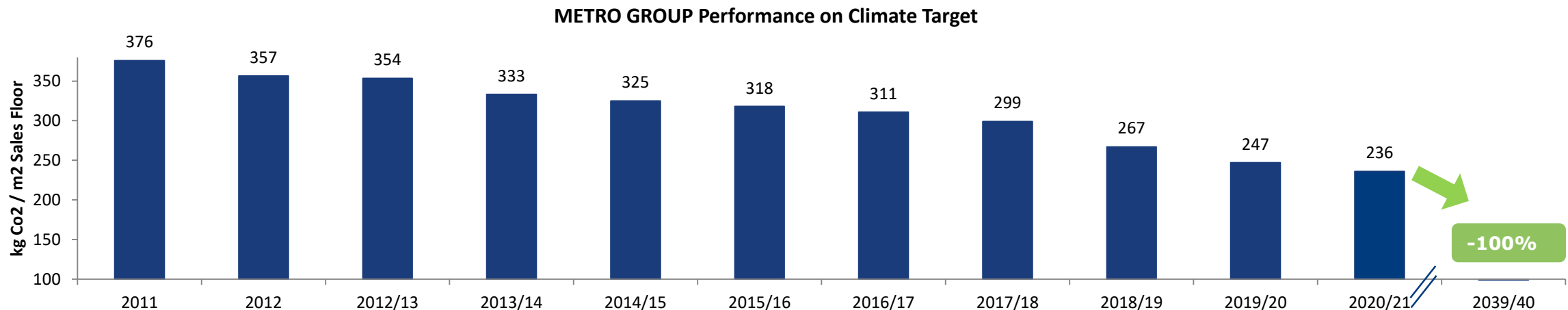
ENERGY: PHOTOVOLATICS + EV CHARGERS IN FR + DE

DFBEW - MEETING

13. Dec. 2022

METRO ZERO EMISSION TARGET 2040.

- Climate protection target 2020 already achieved in 2015:
=> Reduction of CO2 emissions per m2 of sales area by 20% compared with 2011. 
- Climate protection target for 2030 extended in 2015:
=> Reduction of CO2 emissions per m2 of sales and delivery area by 50% compared to 2011. 
- NEW Zero emission target 2040:
=> No CO2 emissions in operations (Scope 1+2) from 2040 onwards.



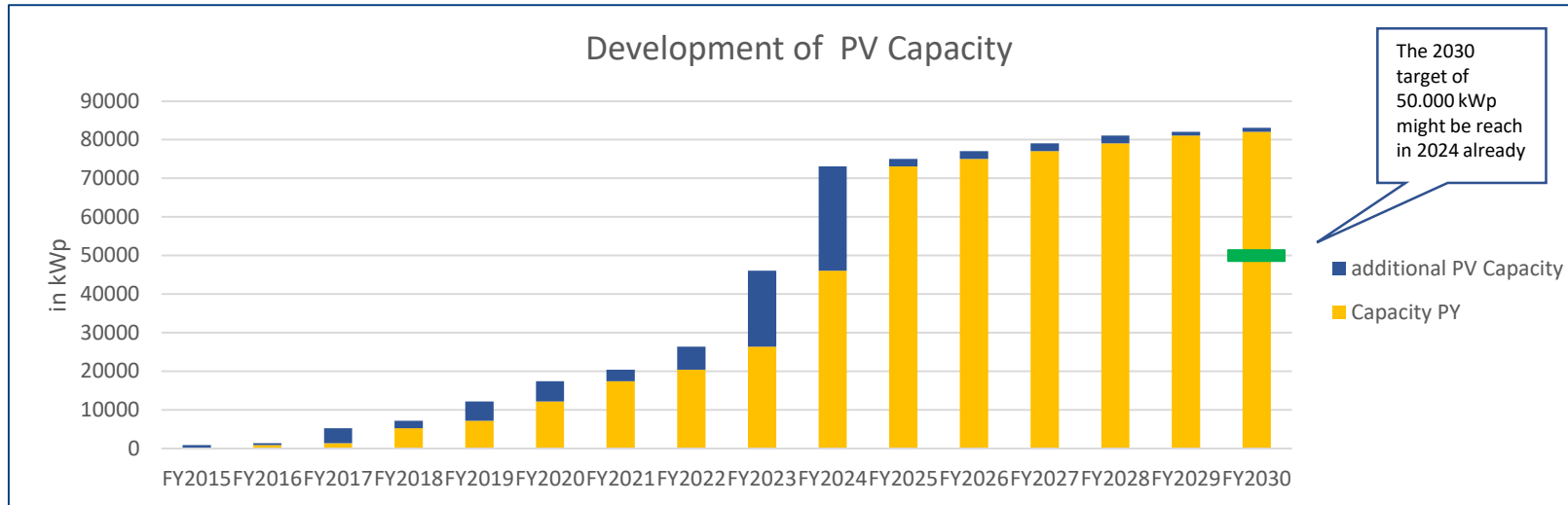
ZERO EMISSION STRATEGY.

METRO's programs to achieve the net zero 2040 target:

1. Energy Savings Programs: Behavioral Changes (EAP) & Investments (ESP).
2. F-Gas Exit Program (FEP)
3. Heat Exit Program (HEP)
4. Use of renewable energy sources (at the store).
5. GREENSTORE + ZEUS (Zero Emission Unit Store)
6. Green Logistics - Transport + Company Cars

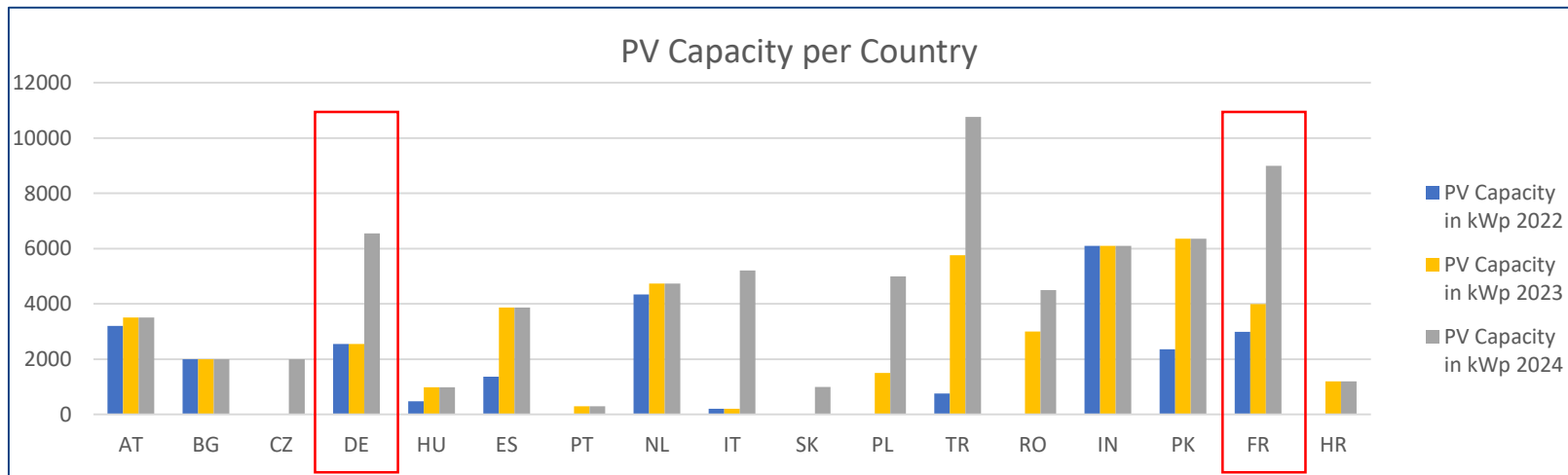


ACCELERATED PV ROLL-OUT.



Status

- Total: 67 stores with 26.055 kWp
- DE: 5 stores with 2.551 kWp
- FR: 17 stores with 2.991 kWp



Challenges

- Building lease durations
- Roof statics
- Roof conditions
- Currently also offers + pricing!

ONGOING EV ROLL-OUT.

EU Country	No of Stores	stores with EV Chargers	No of EV Ports
MCCAT	12	4	12
MCCBG	12	9	18
MCCCZ	13	1	2
MCCDE	103	6	33
MCCHU	13	13	52
MCCRO	30	5	12
MCCFR	101	21	243
MCCHR	10	0	0
MCCNL	17	6	40
MCCIT	49	2	10
MCCES	38	13	90
MCCPT	10	10	58
MCCPL	29	29	58
MCCSK	6	6	17
Sum	443	125	645

Status Charger

- Total: 147 locations with 821 plugs
- DE: 17 locations with 176 plugs
- FR: 21 locations with 243 plugs

Challenges

- Building lease durations
- No charging business case
- Not for all locations third party interest
- In DE: long DSO approval time
- For own logistics in pilot phase

Status EV Company Fleet

- DE: 15 BEV + 332 PhEV = 21%
- FR: 112 BEV + 145 PhEV = 24%



Thank you!
Vielen Dank!
Merci Beaucoup!

Olaf Schulze

Vice President Energy Management

Tel: +49 (151) 15111870

Mail: olaf.schulze@metro-properties.de