



**Interreg**  
North Sea Region  
ACCESS  
European Regional Development Fund



EUROPEAN UNION

# Master class Interreg Europe ZCI Mechelen - June 2023

## Research purpose of the Access project in the administrative agreement of the city.

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The city is investigating how an energy community with locally produced solar energy combined with smart mobility (smart chargers and V2G) can work in a newly built parking tower.



# Eandis-Keerdok. Urban development project



## Piloting energy solutions for fossil-free electric mobility

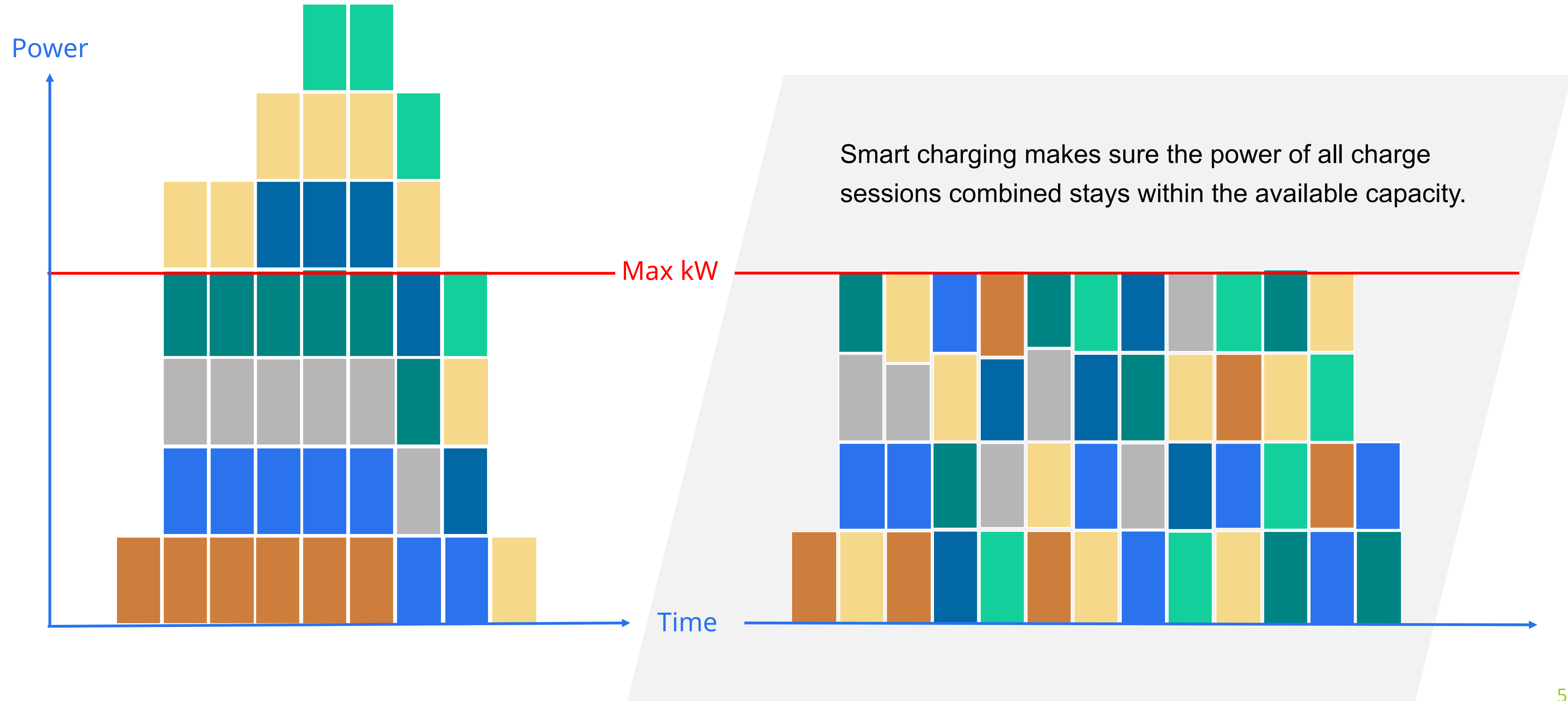


New multifunctional parking building & mobility hub with 528 parking spaces, offices and retail. New landmark for the city of Mechelen.

### Innovative pilot

- 20 AC charging points
- 4 DC charging points
- 2 V2G charging points
- Energy management system: maximum self-consumption and smart steering
- sharing of surplus solar energy between charging infrastructure operator, supermarket and offices on 2 floors.
- Charging lockers for batteries e-bikes
- V2G pilot: charging and discharging energy with electrical shared cars

# Basics of smart charging



# Main milestones - state of the art charging pilot

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|   |         |
|---|---------|
| Start project   | 09/2019 |
| Tender 1 Feasibility study                              | 01/2020 |
| Tender 2 Framework contract engineering company         | 09/2021 |
| Tender 3 Investment & operation charging infra 15 years | 04/2022 |
| Opening Keerdok parking                                 | 11/2022 |
| Final event & ending Interreg NSR Access                | 04/2023 |

## Lessons learned

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Building architecture in function of an optimal local energy production.

Market exploration interviews are important

Cooperation with independent energy experts

When growing e-mobility in your city, pay attention to the energy story.



The local government as a facilitator, pushing the innovation further, challenging the market.



**Mechelen took on a coordinator role to effectively source the right actors to make the Keerdok smart local energy system work**



# Final video Pilot city Mechelen

<https://www.youtube.com/watch?v=a3YEeOlylD8>



**WE PROMOTE  
A CLIMATE  
NEUTRAL CITY**

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