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**SEL** SMART  
ENERGY  
LINK



## SunnYparc Project

SWEET Conference – September 6th 2023, Bern

Mathieu Boccard, Planair

SunnYparc  

# SunnYparc Project



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Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra  
  
Bundesamt für Energie BFE  
Office fédéral de l'énergie OFEN

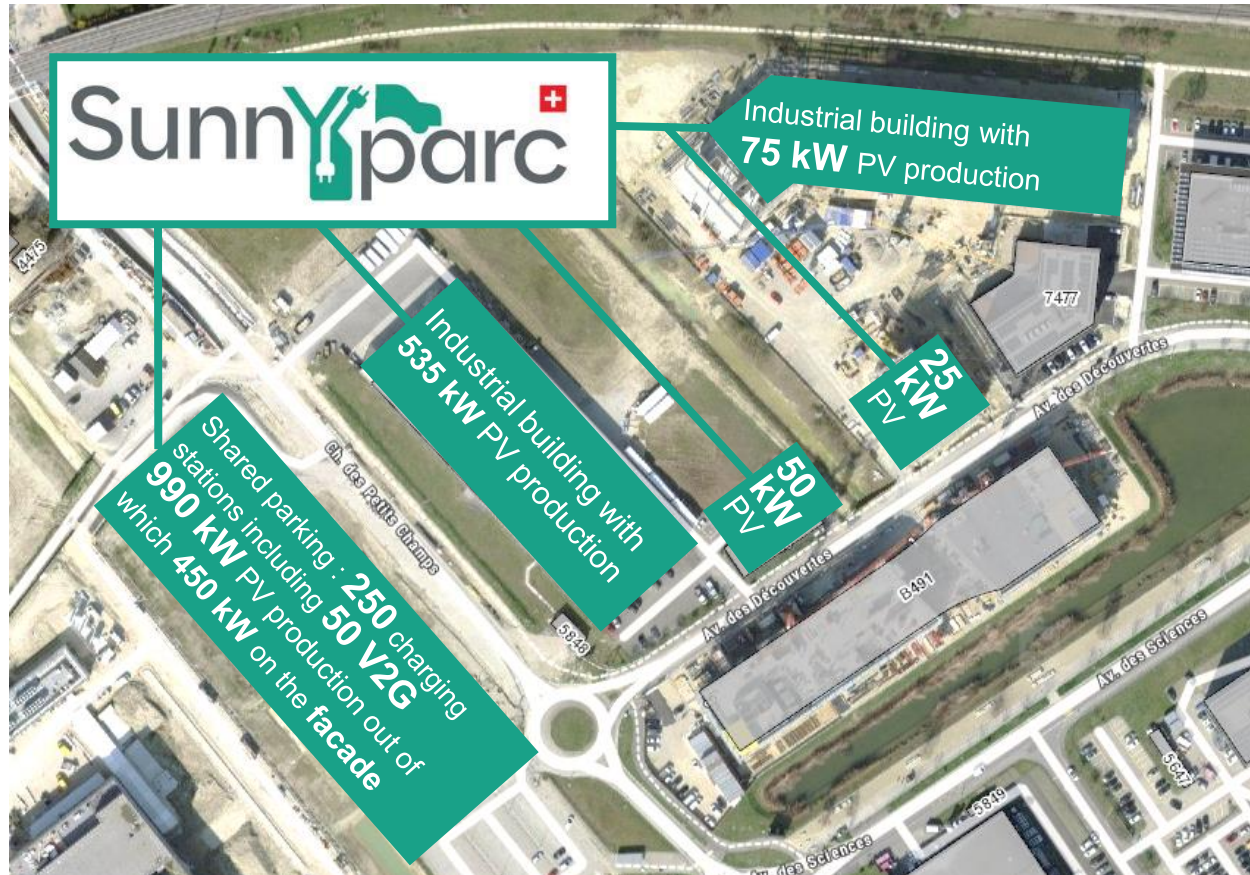
canton de  
**vaud**

**SunnYparc**



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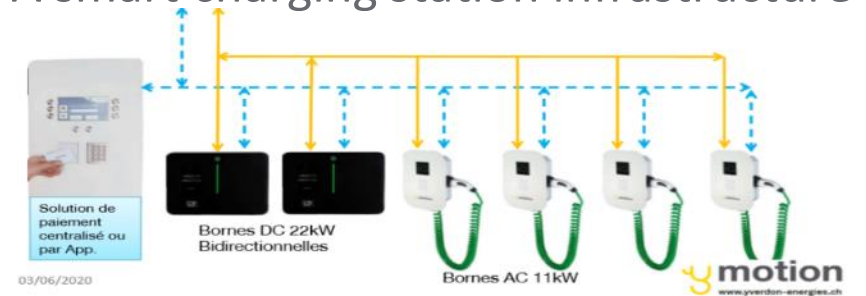
## *A microgrid with a centralized parking*



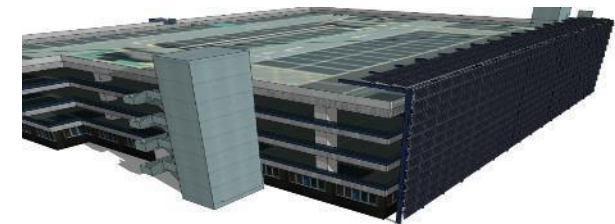
- A centralized parking



- A smart charging station infrastructure



- A local RE production with PV in facade



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Principal investor, microgrid owner and operation manager



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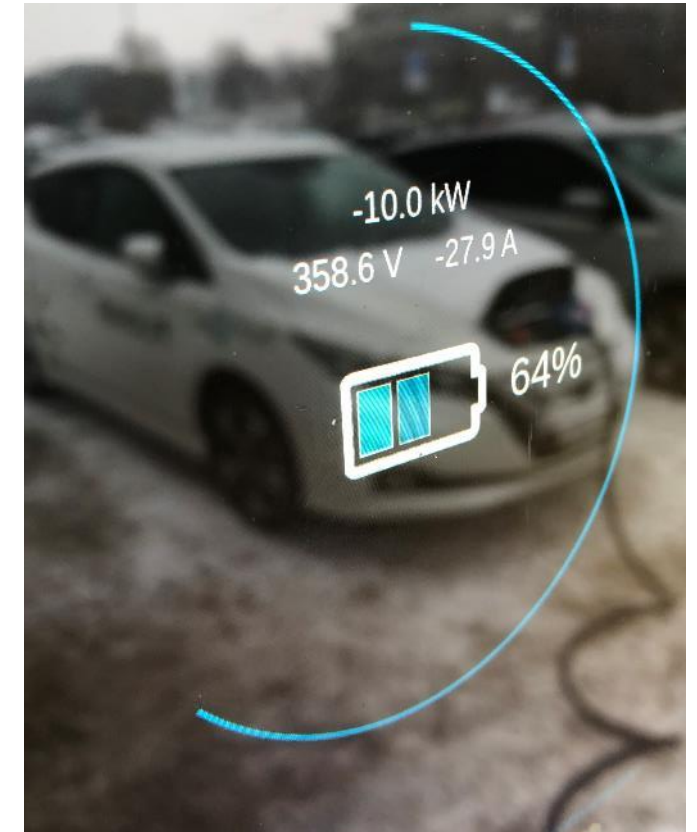
## *The situation today*



- 20 AC chargers, 22 kW

- 5 DC chargers, 22 kW

- Demonstration of discharge from 3 cars simultaneously, injecting 30 kW to the grid

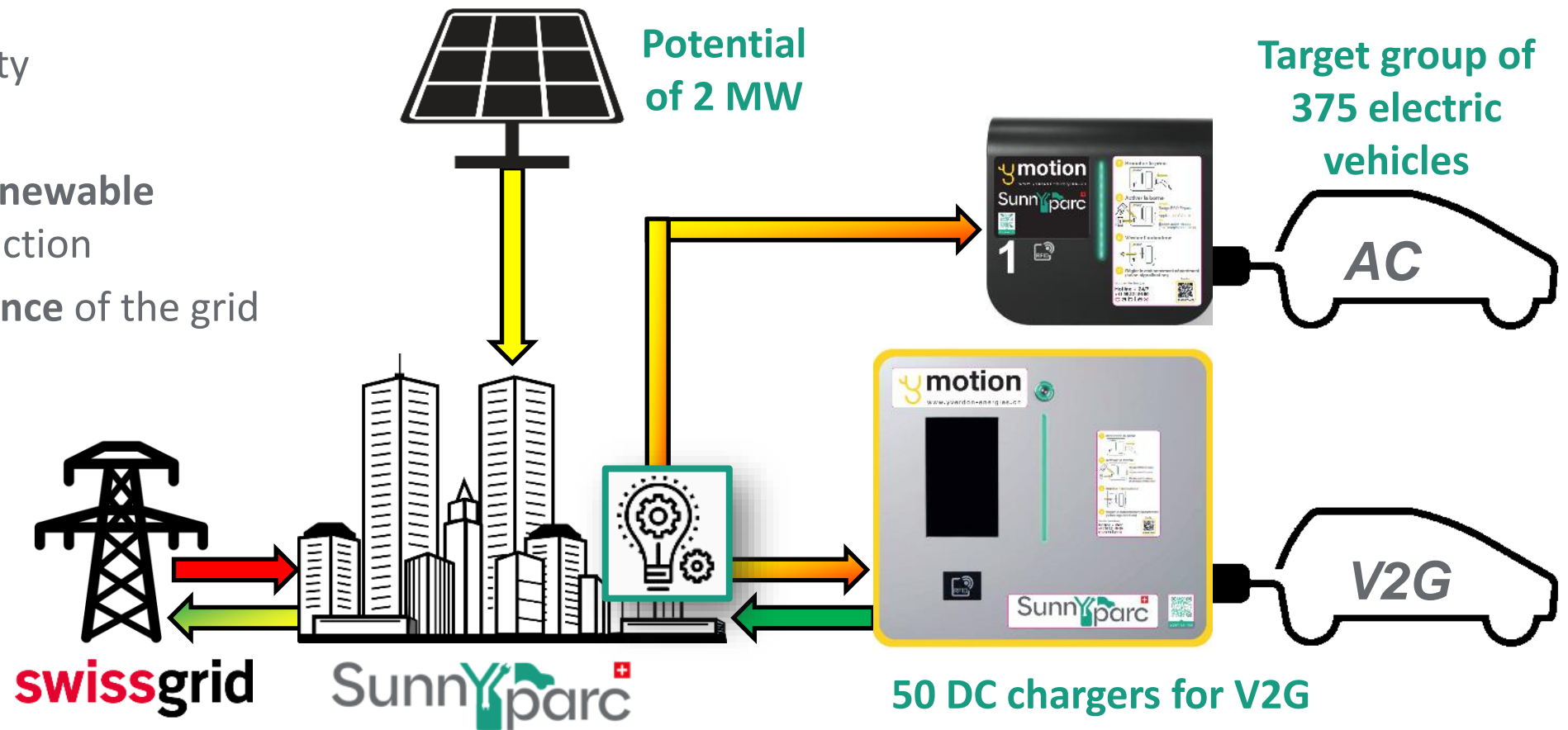


# SunnYparc Project

## Technical and economical demonstration

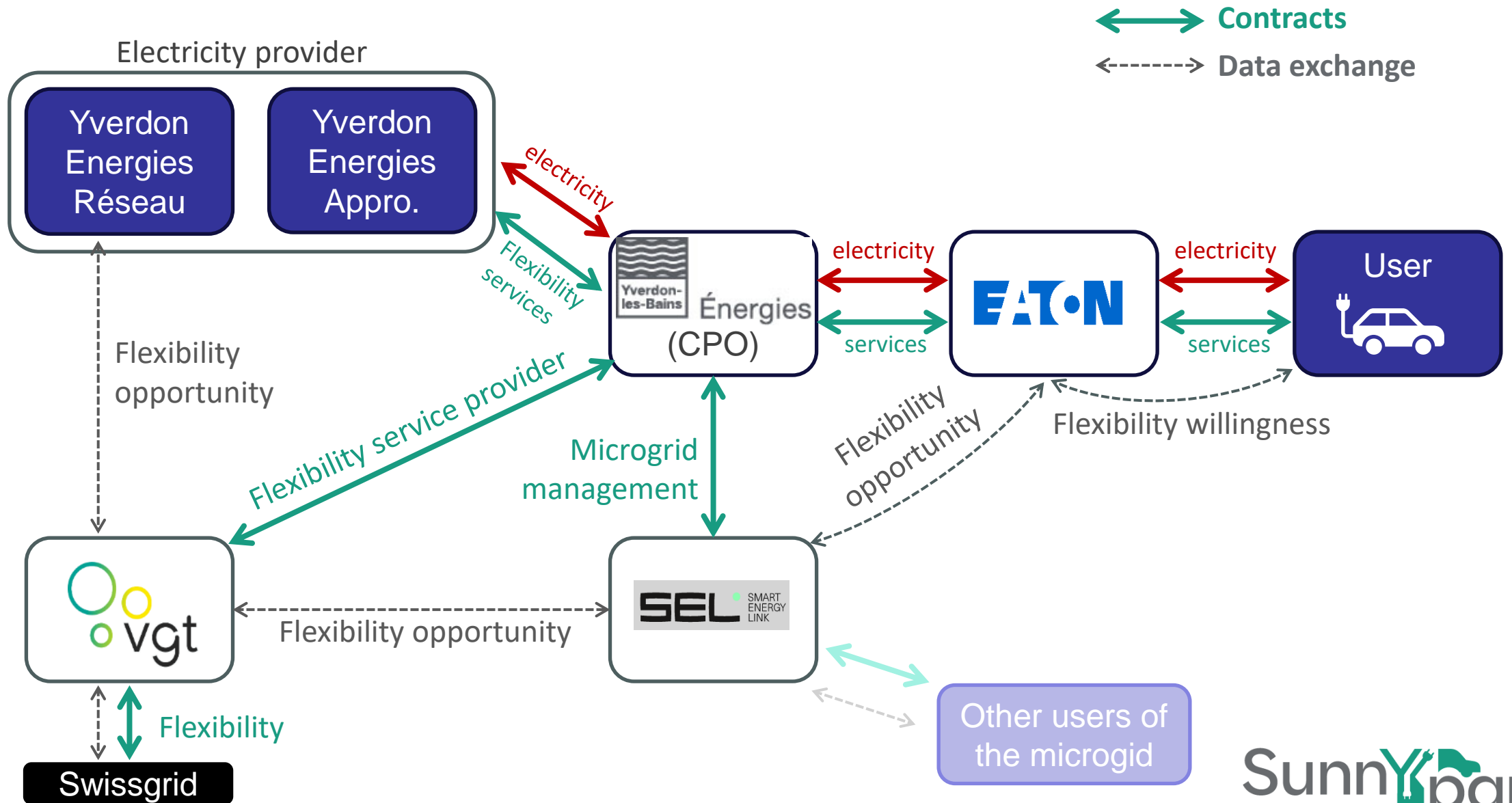
Development of innovative **business models** for:

- Self-consumption
  - Grid services
  - Local Flexibility
- 
- ➔ More local **renewable energy** production
  - ➔ Higher **resilience** of the grid



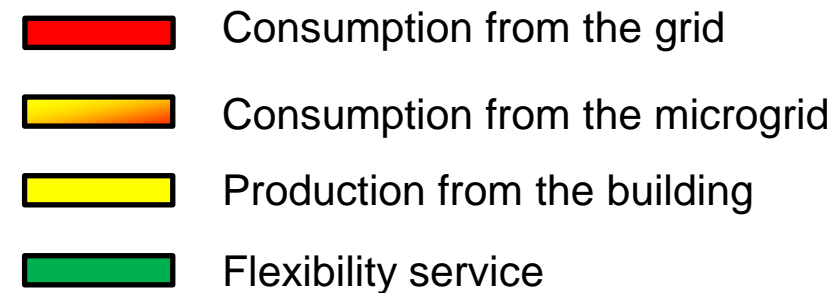
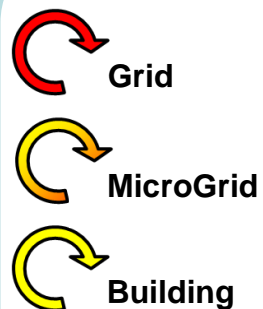
# SunnYparc project

## Roles and interactions between partners



# SunnyParc project – Designing tomorrow's tariffs

## Prosumer



## Réseau

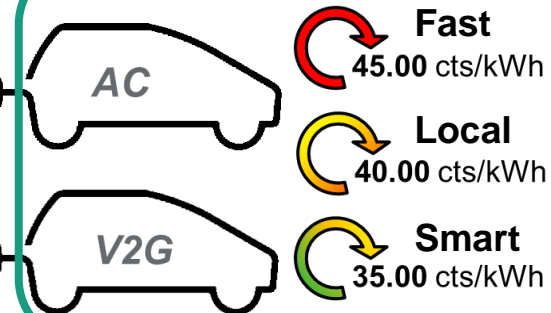


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swissgrid

## Microgrid

## Recharge



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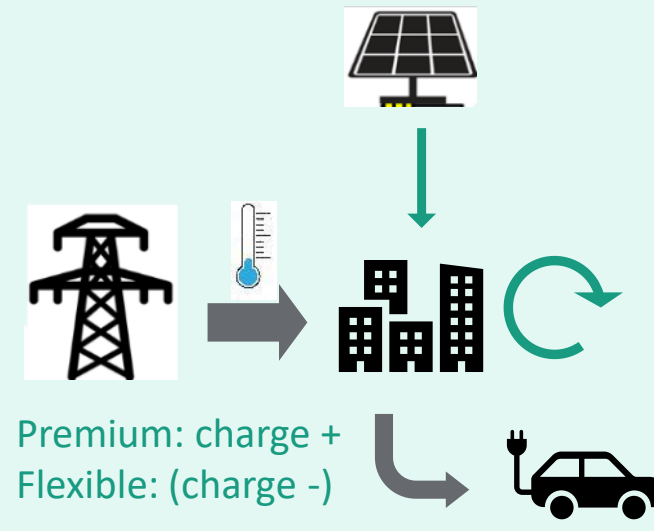
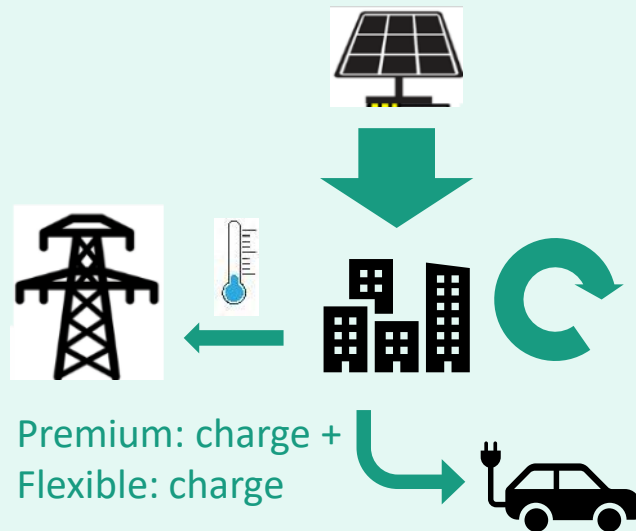
# Use cases for a keep it local strategy

Local situation:

Production > Consumption

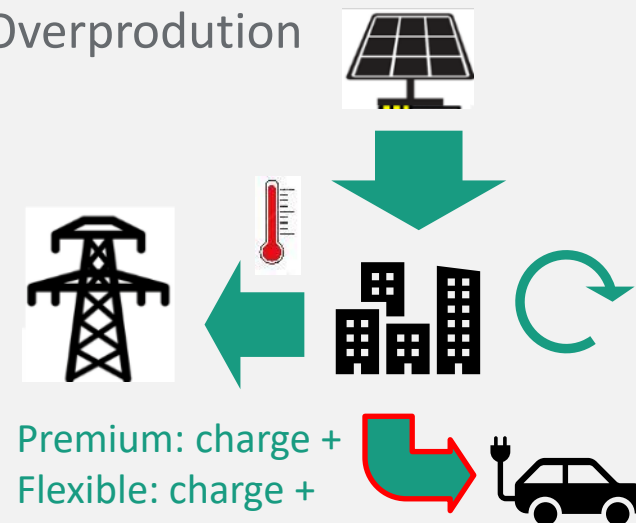
Production < Consumption

Optimal  
transformer  
range

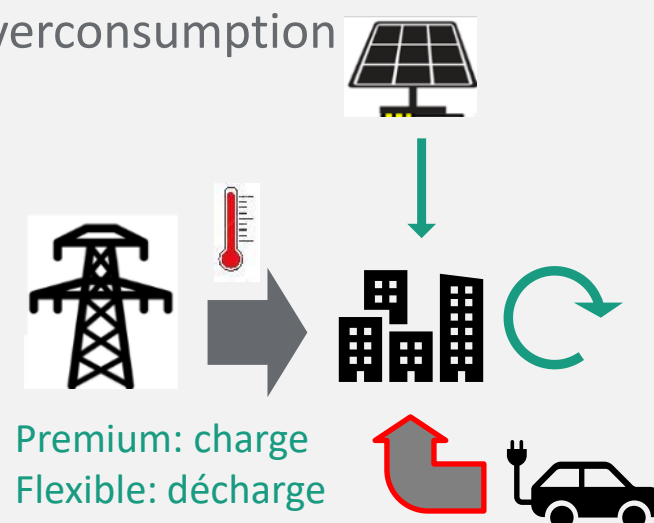


Overload of  
the local  
transformer

Overproduction

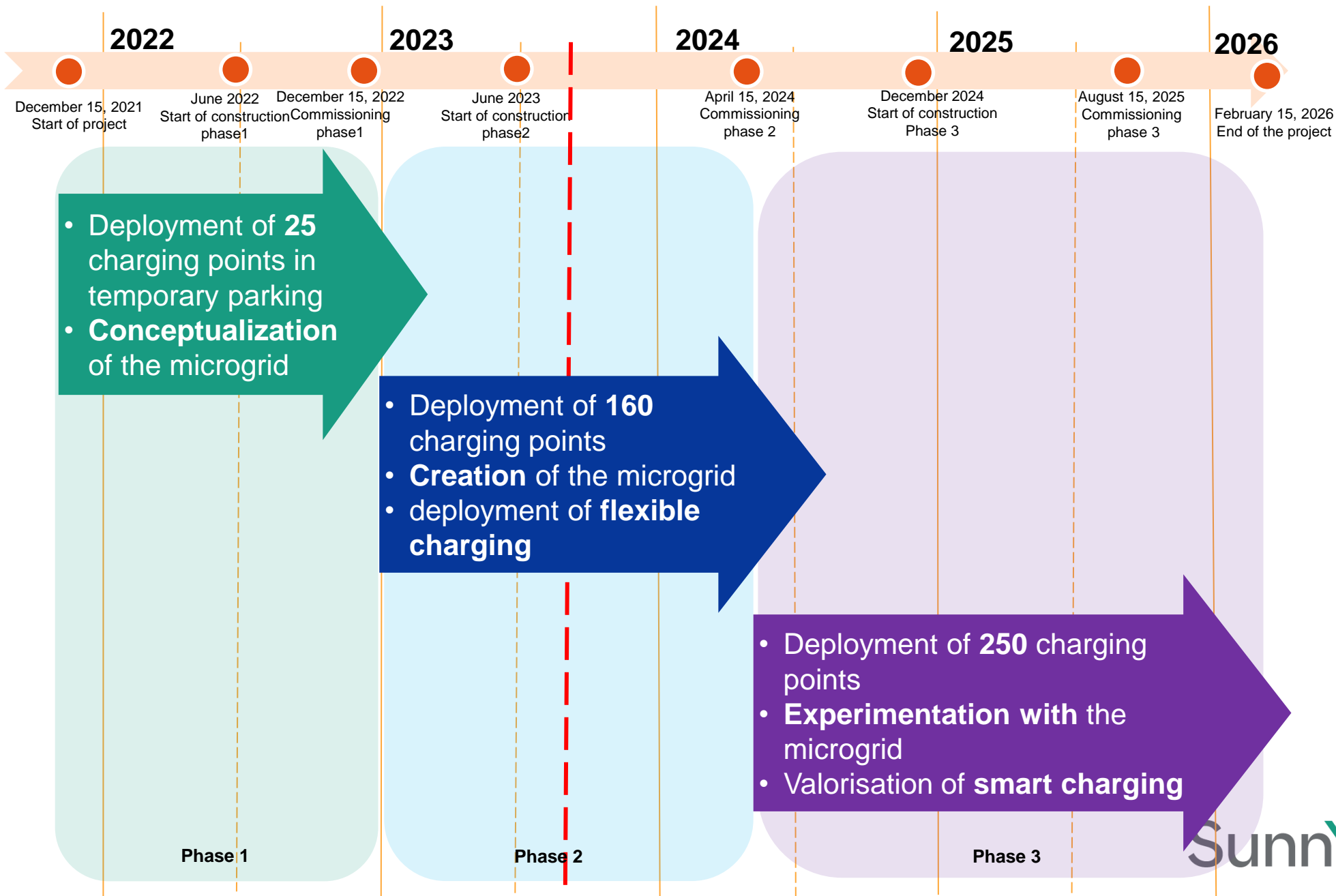


Overconsumption





# SunnYparc project - Planning



# Thank you for your attention

Stay tuned on

[www.SunnYparc.ch](http://www.SunnYparc.ch)

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Canton of Vaud*



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
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