

POLIS

CITIES AND REGIONS FOR TRANSPORT INNOVATION

ANNUAL
CONFERENCE
2024

27-28 NOVEMBER 2024

KARLSRUHE (DE)



Baden-Württemberg
Ministry of Transport



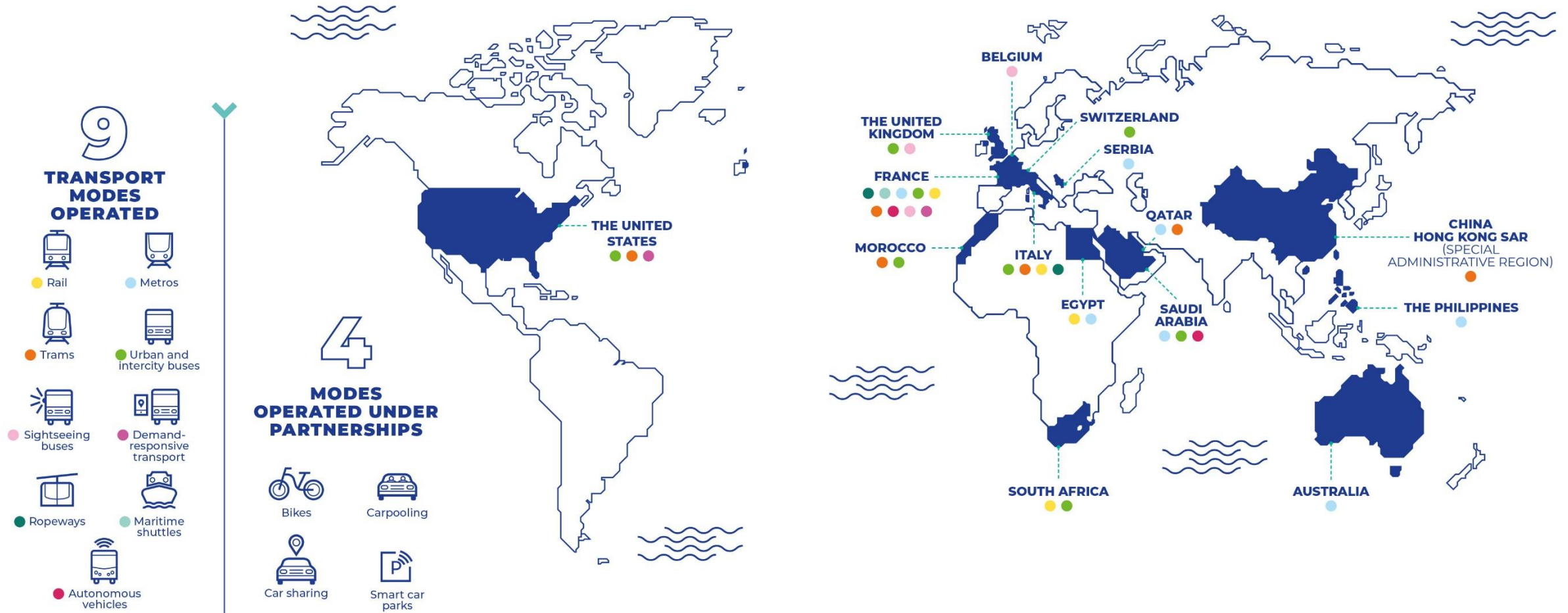
Karlsruhe



RATP Energy Transition : from Vision to Reality

François Warnier de Wailly, 26/11/2025 POLIS

3rd global urban transport operator across 5 continents and 15 countries



Spotlight on the energy transition of bus fleets

Bus2025, a programme launched with the support of Île-de-France Mobilités, the European Commission and *Banque des Territoires de la Caisse des dépôts et consignations* banking group.

Aim 50%

reduction in GHG emissions arising from bus operations between 2015 and 2025

Or the equivalent of
250,000 tCO₂
avoided over the period

- **Over 1,800** electric and biomethane buses operated in the Île-de-France region at the end of 2023
- By the end of 2024, close to all 25 bus depots will be adapted and upgraded
- **14** bus depots converted in the Île-de-France region at the end of 2023



Co-funded by
the European Union



The largest bus Energy Transition operation in Europe



4 700 buses

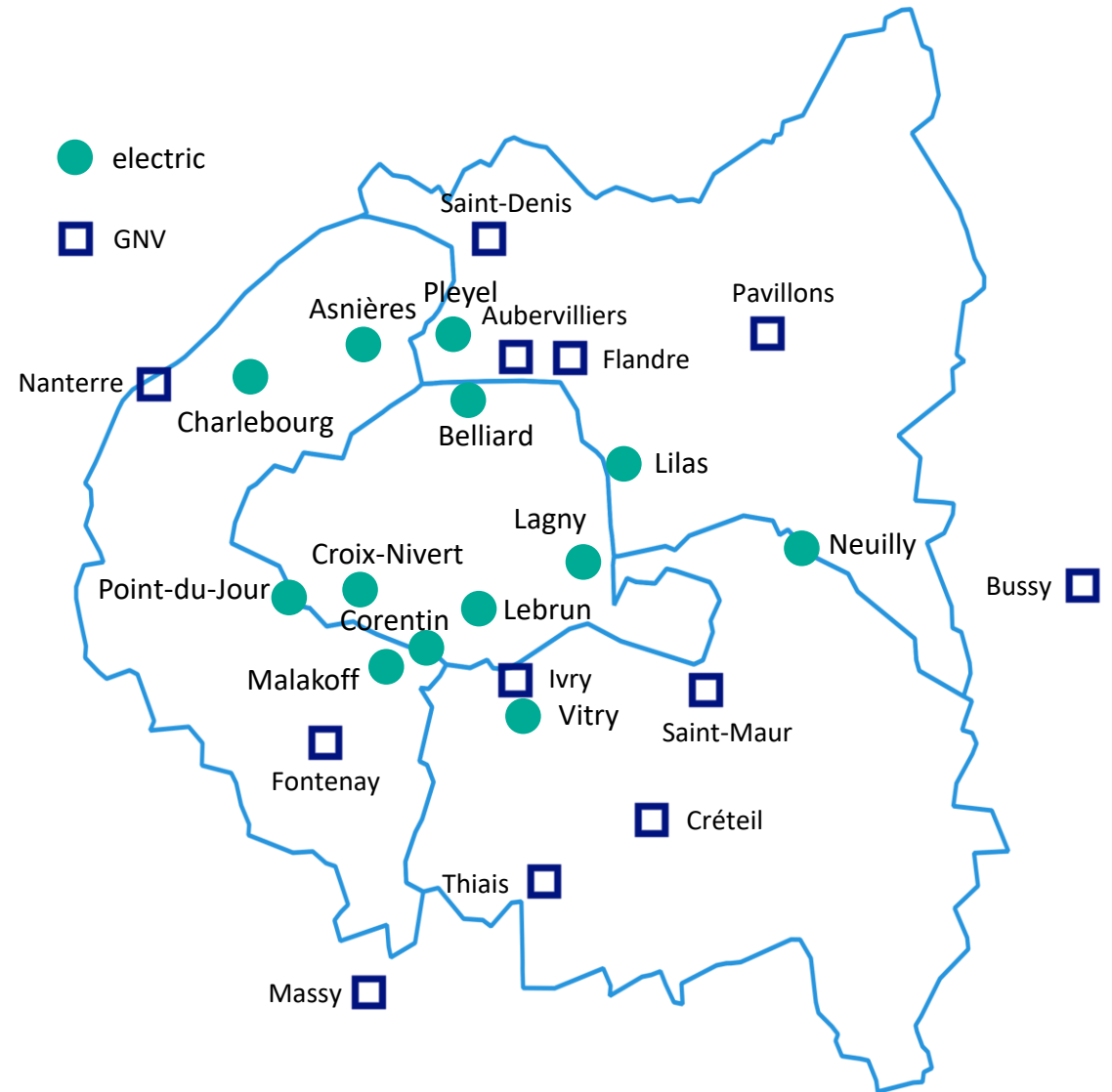
50% ebus / 50% bio CNGbus

13 bus depots with e buses expected

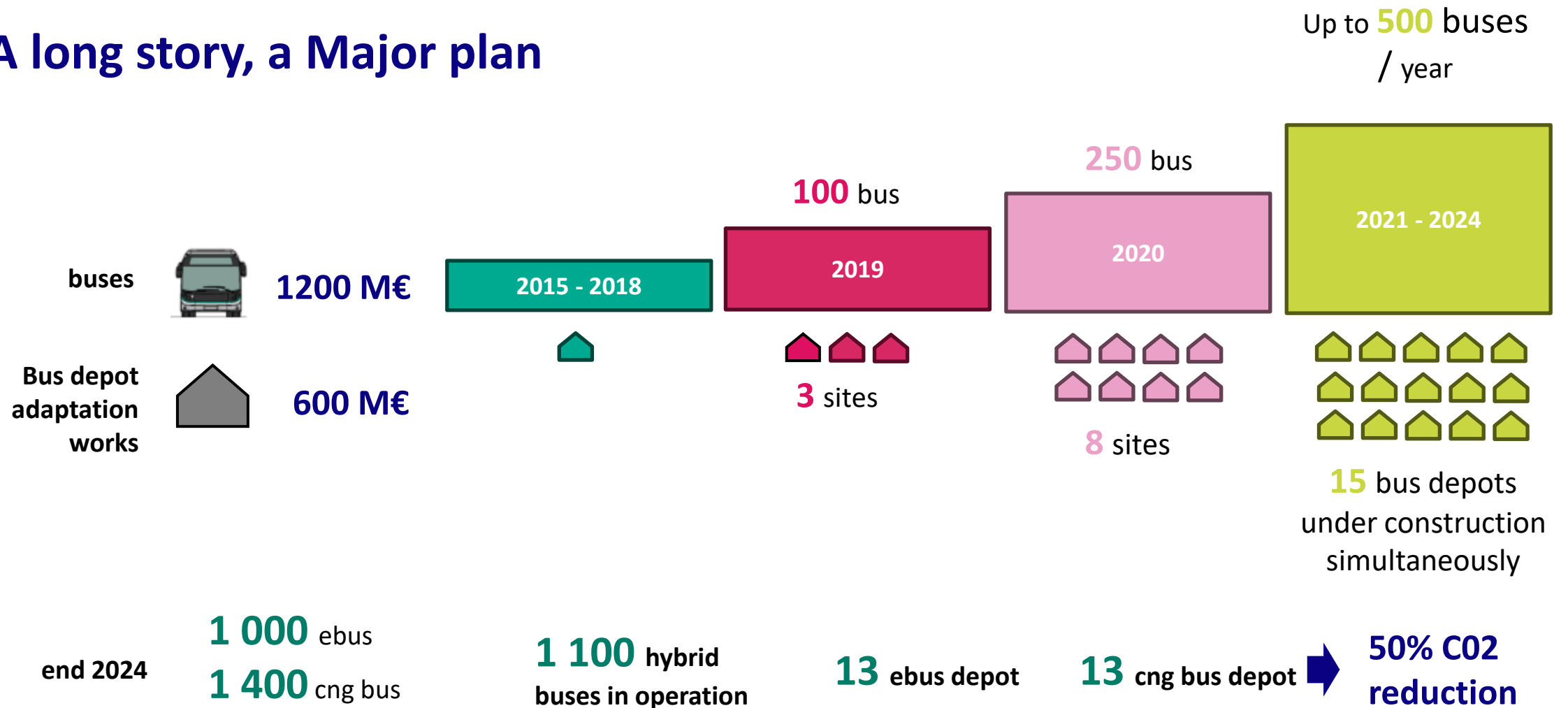
12 bus depots with CNG buses expected

1 new CNG bus depot to be built

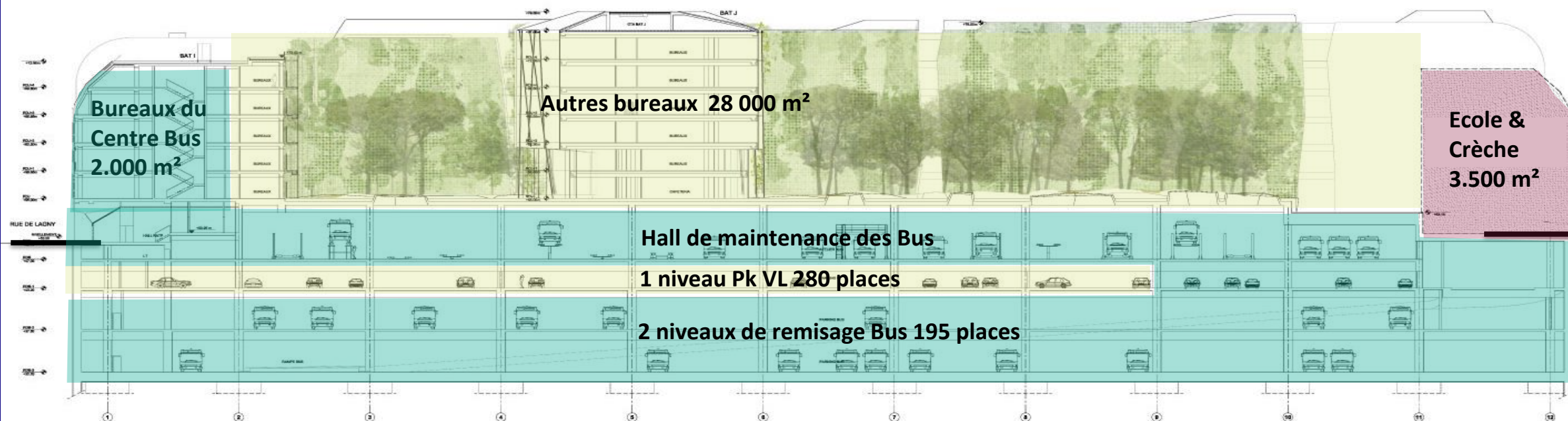
1 depot with a need for adaptation to H2 bus line






A long story, a Major plan



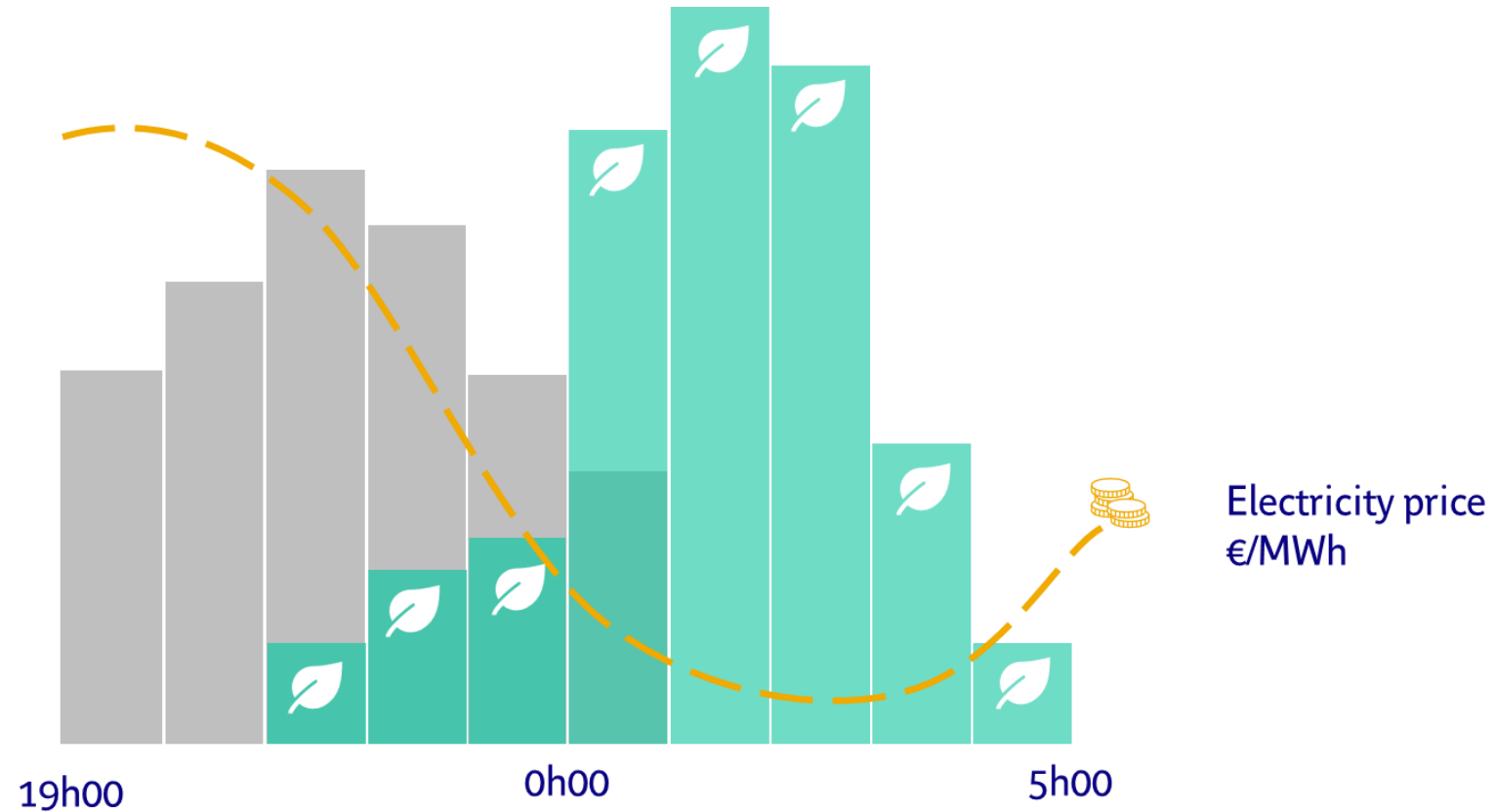
Urban stratification and juxtaposition of uses



-  RATP Program
-  Offices Program
-  Paris City Program



Innovation : smartcharging



« Shifting the charging of electric buses to the least expensive and carbon-intensive hours without impacting depot operations »

Innovation : smartcharging



-10%
Vs used
charging



4GWh
On « green » hours



48teqCO2
Avoided on 1 year



800 households
Annual
consumption

soit

25 Round
trips
Paris
New-York



1 Wind turbine
Annual production

Key factors for success

1 A dedicated team with all the “savoir-faire” in the field

2 A focused vision of the goal

3 Equipment qualification protocols in the commissioning phases

4 A period of experimentation, a learning experience



Merci.



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