

**SET
PLAN**
Conference
2015

Research, innovation
and competitiveness
for the Energy Union

ENERGY / TRANSPORT

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Renault

SESSION 4

**Sustainable energy for transport - and the link to
the strategic transport research and innovation agenda**
Tuesday 22 September 2015

SET Plan conference 2015
Research, innovation and competitiveness for the Energy Union

SUSTAINABLE ENERGY FOR TRANSPORT

Frederic MALEFANT – EV Business Development

Renault & sustainable transport

→ ICE ...

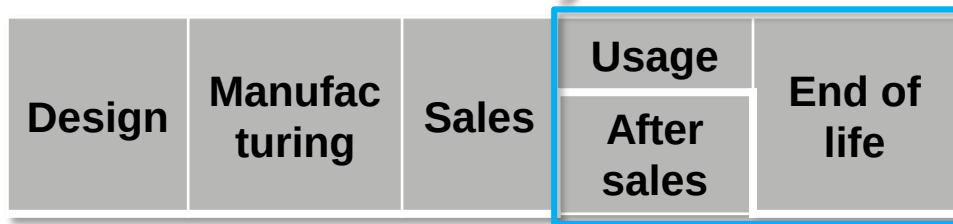


→ and EV !



Renault **Leader** in Europe

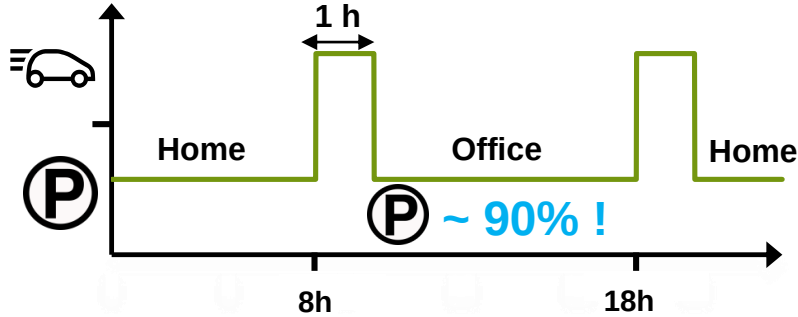
EV Life cycle



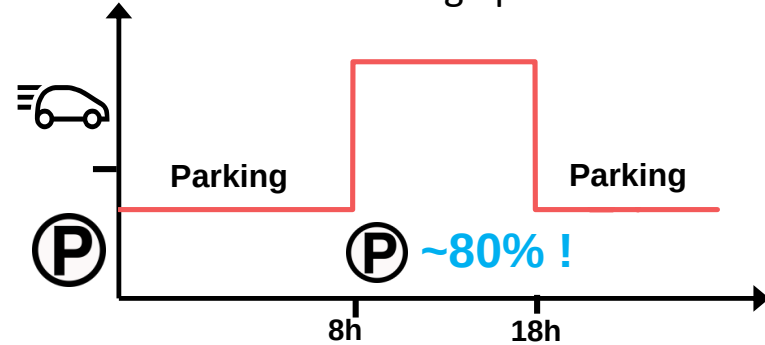
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Focus

EV usage

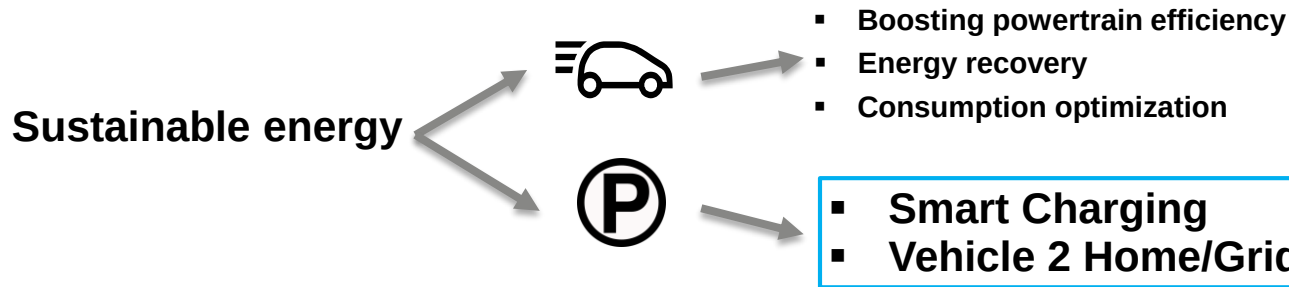
Private owner usage profile



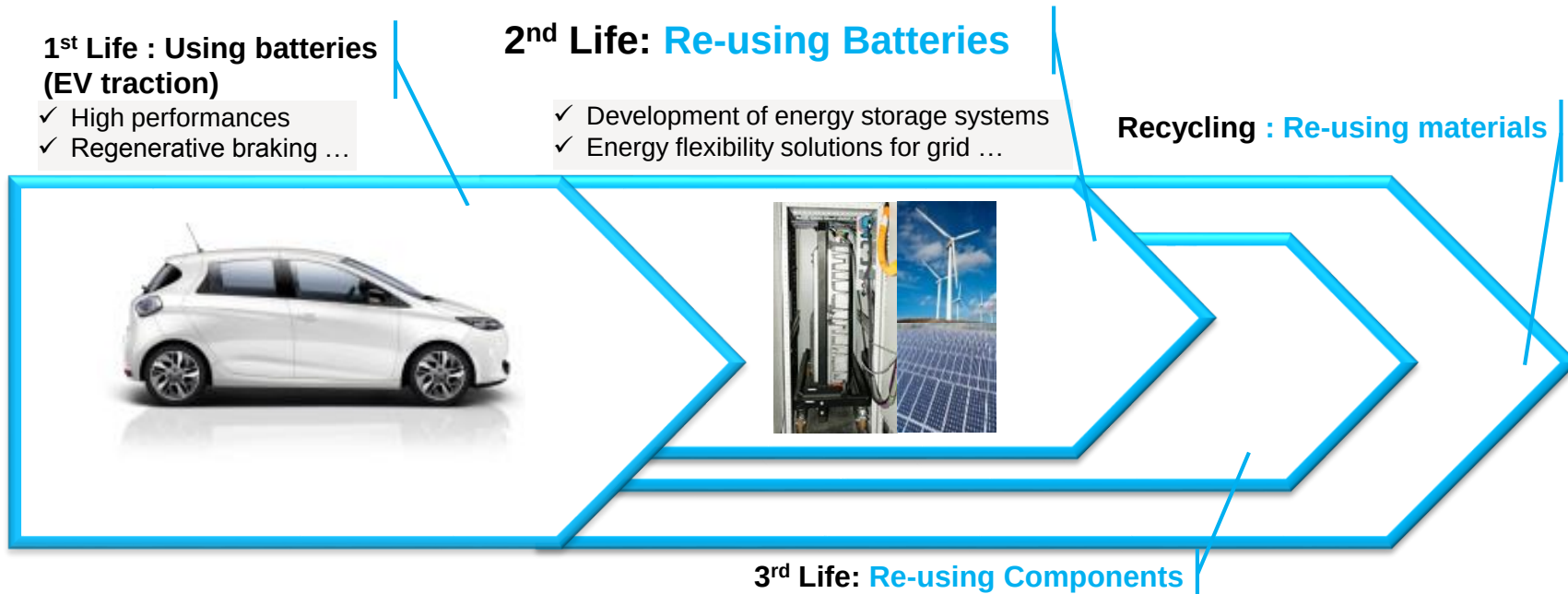
Fleet usage profile



Usage profiles for a typical weekday: 2 use cases



Batteries 2nd life



Battery lifecycle & Sustainability

2nd life Batteries

B4B

Batteries For Buildings

- 6 batteries from Kangoo (Zoe, Leaf, NV200 in future)
- Storage capacity: 66 kWh (if 2nd life) – 144 kWh (if new)
- Scalable system



Gateshead College
Office building
72 kWh - 3 batt Leaf

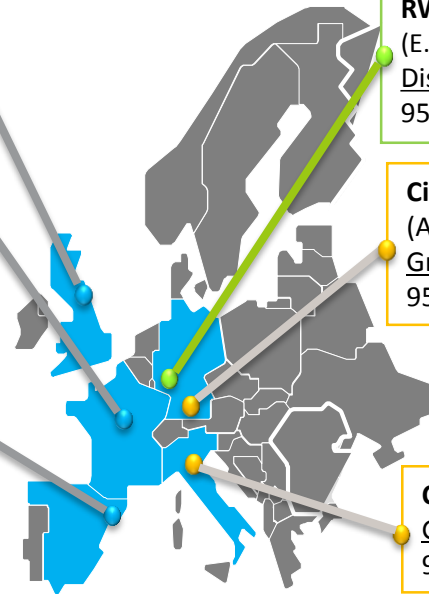
Ampère (Sogeprom)
Office building
32 kWh - 2 batt Kangoo

Barcelona (Nissan)
Factory 1 MWh
42 batt Leaf

RWTH-Aachen Univ.
(E.ON)
District (Campus)
95 kWh - 6 batt Kangoo

City Kempten-Halde
(AÜW)
Grid with renewable
95 kWh - 6 batt Kangoo

City of Terni (ASM)
Grid with renewable
95 kWh - 6 batt Kangoo



NISSAN



Key learnings

- Coordination between stakeholders from various industries (automotive, building, energy, ...) is essential for achieving a more sustainable transport
- Complementarity between local & global solutions is key
- Regulatory framework of the energy market must be redefined & EU has a supportive attitude
- Automakers might become new energy players!

THANK YOU



ENERGY / TRANSPORT

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