

# EVs | 27

The 27th INTERNATIONAL  
ELECTRIC VEHICLE  
SYMPOSIUM & EXHIBITION.

Barcelona, Spain  
17th-20th November 2013

# Crome

cross-border mobility for EVs

## Ziad DAGHER

## Renault – Electric Vehicle Commercial Division

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## chrome-monitored fleet of over 100 EVs

- 25-30 iOn / C-ZERO
- 10 Partner / Berlingo



PSA PEUGEOT CITROËN

### Germany (BMW)

- 25 smart ed
- 15 A-Class E-Cell



DAIMLER

### France (Moselle)

- appr. 30 smart ed

- 7 Kangoo Z.E.



- 2 Panamera Plug-in
- 3 Boxster E

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- Alsace Region stands as a main EV player
  - Over 1 200 EV were sold since 2010 (source AAA)
  - 623 EV sold in 2013 (from January to June – source AAA)
  - More than 530 ZOE (since March 2013 – source AAA)
    - Government and Region’s incentives effective



- Comparison with national EV sales



France 2013 = 10 155 (year to date sept – source AAA)

Germany 2013 = 3 696 (year to date sept – source JATO)



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## chrome Renault EV Kangoo ZE : A mini van fully adapted



Two sizes (3m3 or 4m3)  
Loading capacity over 600kg  
Range between 80 & 125km (170 NEDC)  
Recharge 100% in 8h  
Large range of conversion



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## BEST-IN-CLASS RANGE

**210** Km  
NEDC



Around  
100 to 150km  
real use

## BEST SAFETY LEVEL



## POLYVALENT CHARGE

### CAMELEON CHARGER

Standard : 3 - 6 Kw (8h)

Accelerated : 22kW (1h)

Fast : 43kW (80% in 30')



# Renault EV on **chrome**eld ZOE : simply revolutionnary

## R-LINK



## DESIGN



## 0 EMISSIONS

**0**

- ▶ CO<sub>2</sub>
- ▶ NO<sub>x</sub>
- ▶ Particles

## DRIVING PLEASURE



## ATTRACTIVE PRICE

*Le nouvel*  
**Observateur**

Like | Save | Follow

ACCUEIL • NOUVEAUTÉS • RENAULT ZOE L'ÉLECTRIQUE GRAND PUBLIC

Renault Zoé, l'électrique grand public

**TAKE CARE**  
BY RENAULT

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### Driving pleasure

- Unanimous (& surprising)
- Smooth and fast
- No vibration

### Slience

- Soothing and zen
- Cautious : pedestrians and cyclists

### Autonomy

- A main concern...
- ...though sufficient for most usages

### Public infrastructure

- Drivers ask for it
- Reassuring AND usefull

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**Visibility**

*Promotion & communication*

**Locatability**

*Onboard navigation  
And off board apps*

**Accessibility**

*Simple & interoperable  
Roaming/clearing ensured in case of payment*

**Quality Insurance**

*EV Ready, Mode 3 and adapted power : 3kW to 43kW AC –  
50kW DC*

**A fair amount of well located public charging spots**

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## EV Ready charging layers For **crome**



> 100 stakeholders / candidates in Europe

- Carmakers
- Charging infrastructure suppliers/installers
- EMO
- Energy companies

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