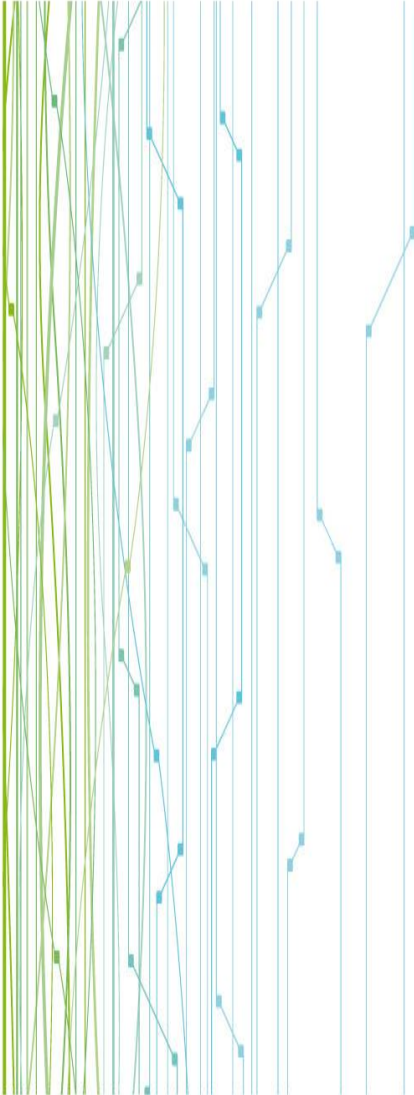


Transport, Energy & Environment

Renault path towards sustainable mobility

CONTEXT

- 
- **Automotive has to face three main challenges :**
 - **CO2 emissions reduction**
 - **Oil price and limited resources**
 - **Automotive is more and more being seen as a problem (noise, pollution, congestion) than a tool of freedom and progress**
 - **What are the answers :**
 - **Keep improving conventional cars efficiency**
 - **Sustainable biofuels**
 - **Technological breakthrough : the electric vehicle**

ELECTRIC VEHICLES / WHAT DO THEY BRING MORE ?



**URBAN AIR
POLLUTION**



GLOBAL WARMING



**RESOURCES
DEPLETION**

THE ECOLOGICAL PERFORMANCE OF ELECTRIC VEHICLE IS WITHOUT COMPARISON



**Zero polluting
emissions**



**Zero CO₂ in-use &
Climate Policy enabler**

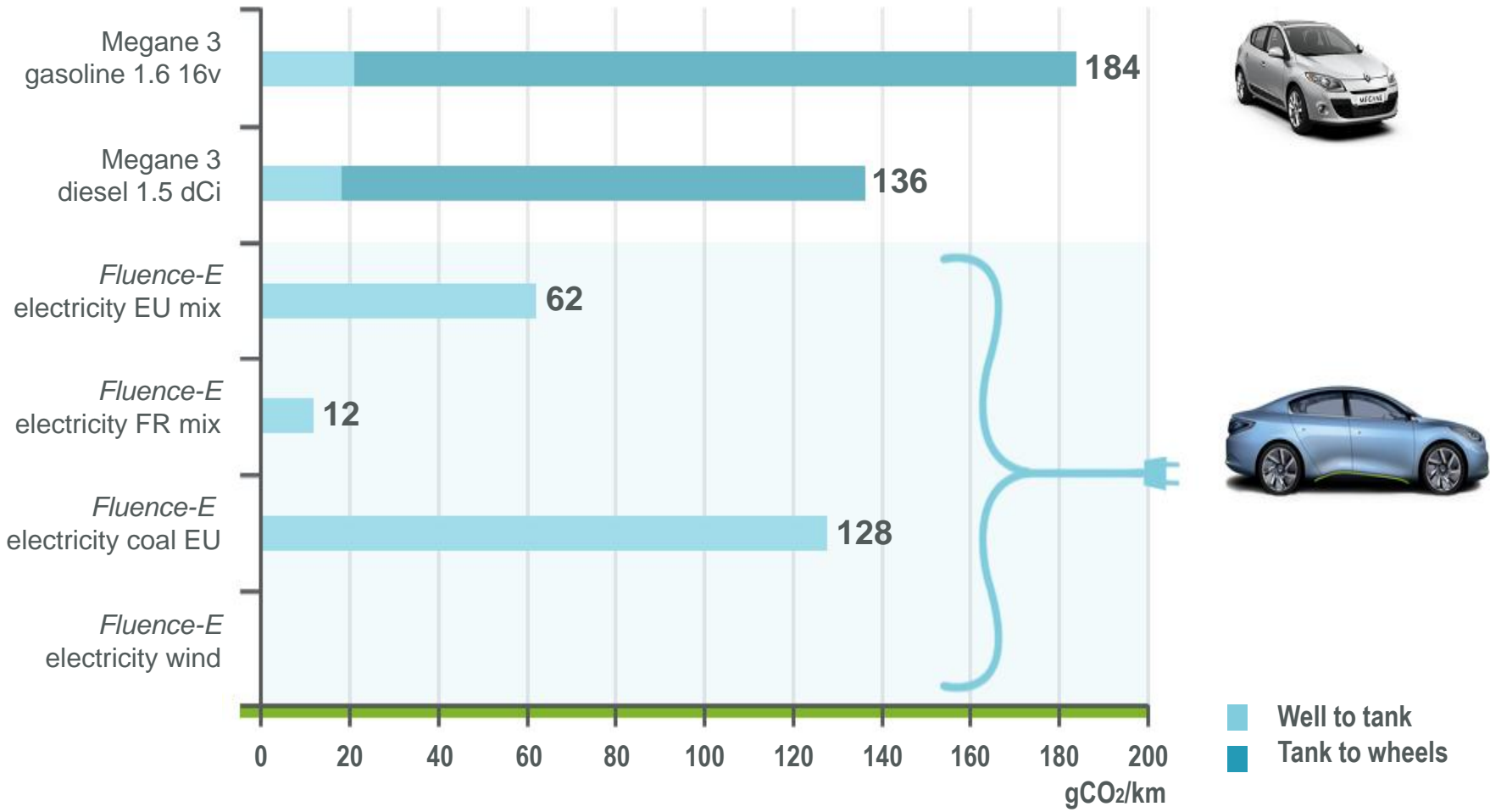


**Energy security &
diversification
in Transport**

THE ELECTRIC VEHICLE :

A real answer to curbing well-to-wheel CO₂ emissions

Comparison of Renault C - segment cars on the standard European cycle NEDC



Source : Efficiency of fuel and electricity production calculated according to the methodology of the JRC-EUCAR-CONCAWE study « Well-to-Wheels Analysis of Future Automotive Fuels and Powertrains In the European Context », v3 Nov. 2008 : <http://ies.jrc.ec.europa.eu/WTW>



ELECTRIC VEHICLES : THREE MAIN REASONS FOR A MASSIVE DEPLOYMENT DURING THE NEXT DECADE

- 1. Technology & Cost
 - *Advanced Li-ion batteries*
 - *High volumes production*
- 2. Sociology & Market
 - *EV driving range (160 km)*
 - *> 50 % of world population in cities (2007)*
 - *Suburban drivers: 87 % less than 60 km/day*
- 3. Regulations & Incentives
 - *Car ban or restriction in cities*
 - *CO₂ taxes on cars*

