Zero-Emission Cars: The Future is NOW!

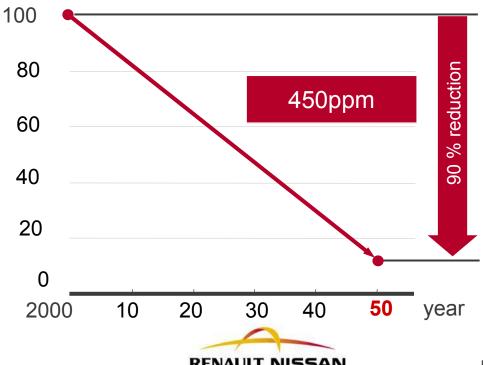
Toshiaki OTANI

Renault-Nissan Alliance Managing Director Senior Vice President, Nissan Motor Co., Ltd.

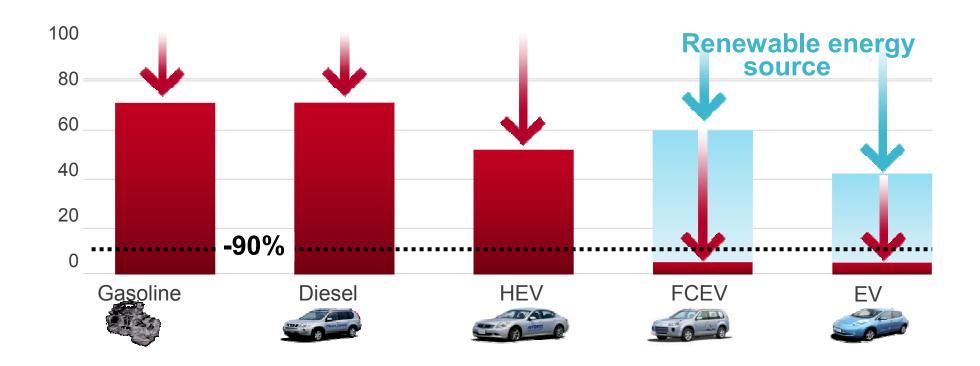


Electric cars reduce carbon footprint right now

- "Zero emission vehicles" and "Clean energy generation" are both necessary to achieve the goal
- 450ppm of CO₂ (IPCC report) corresponds to 90% reduction of new vehicle's CO₂ emission by 2050

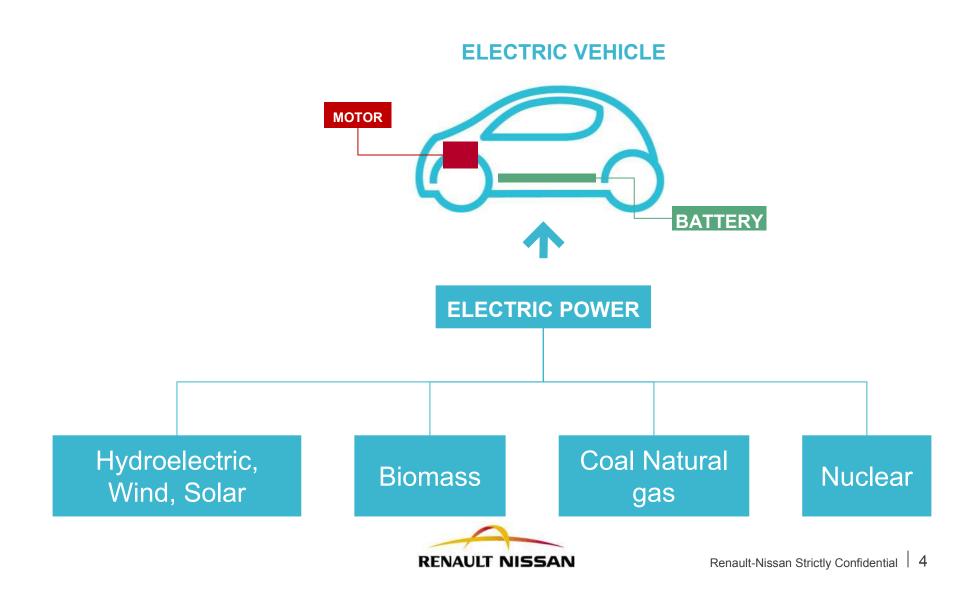


Electric cars reduce carbon footprint



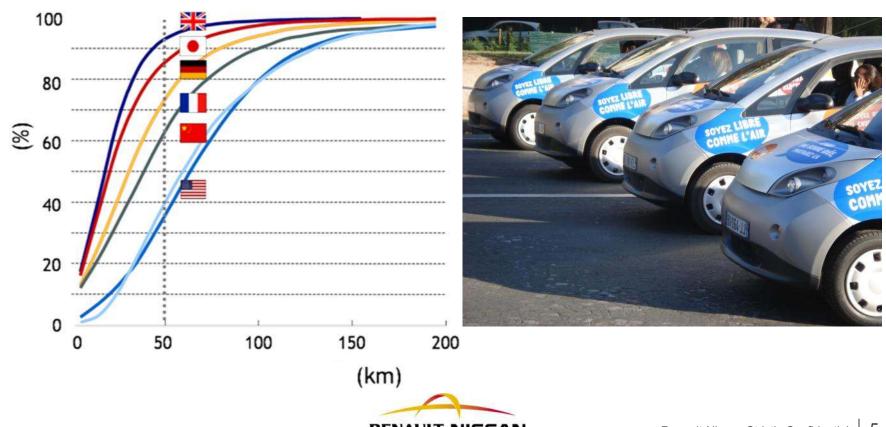


Electric cars are "energy agnostic"



Electric cars suit nearly all daily driving needs

- 100 km covers more than 80% in global
- 50 km covers more than 80% in UK and Japan



■ Nissan LEAF debuted in December 2010





Renault Kangoo ZE and Fluence ZE debuted in late 2011





■ Renault TWIZY debuted in April 2012







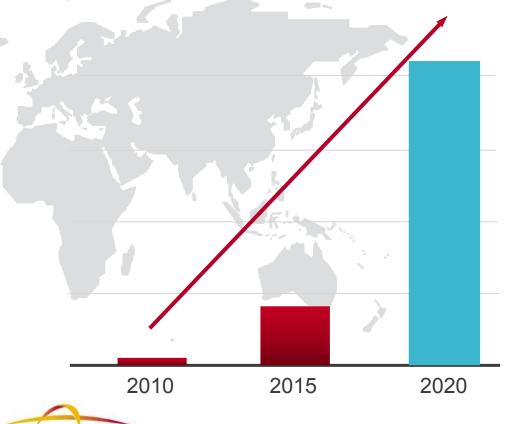
■ Renault ZOE: Coming soon!



Renault-Nissan Alliance projects the EV market will account for 10% of TIV by 2020, and is aiming to secure 20% of that market.







Electric cars are real - safe, practical and fun!











Electric cars are easy to use

- Nearly all owners charge primarily at home, at night
- More public charge spots would increase consumer "peace of mind"

STANDARD CHARGE 4 to 8 Hours

QUICK CHARGE (AC/DC) 30 minutes

QUICKDROP SYSTEM (Renault only) 3 minutes

Residential Public places











EVs are easier when charging is ubiquitous

Japan: Single-family house



US: Single-family house





Europe: Multifamily building



Europe: Single-family house



Increase of public charging

- Japan: More than 4,100 (as of May 2012)
- US : More than 10,000 (as of May 2012)
- Europe: More than 20,000 (in 2011)





EVs are easier when charging is ubiquitous

On the way and at the destination

City hall



Shopping malls





Motor way sevice area

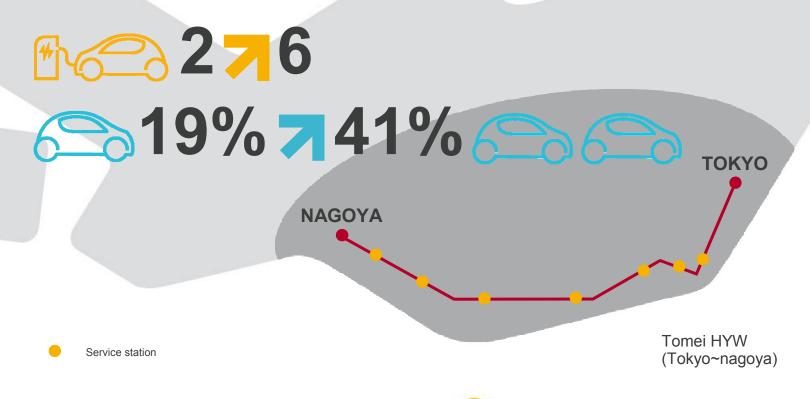


Gas stations



Green Pioneer: Japan

More quick-charge spots greatly increases use of EVs



Green Pioneer: USA







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Green Pioneer of the Future: China













Supporting community

After 2011 earthquake and tsunami, EVs helped first responders when gasoline was in short supply.



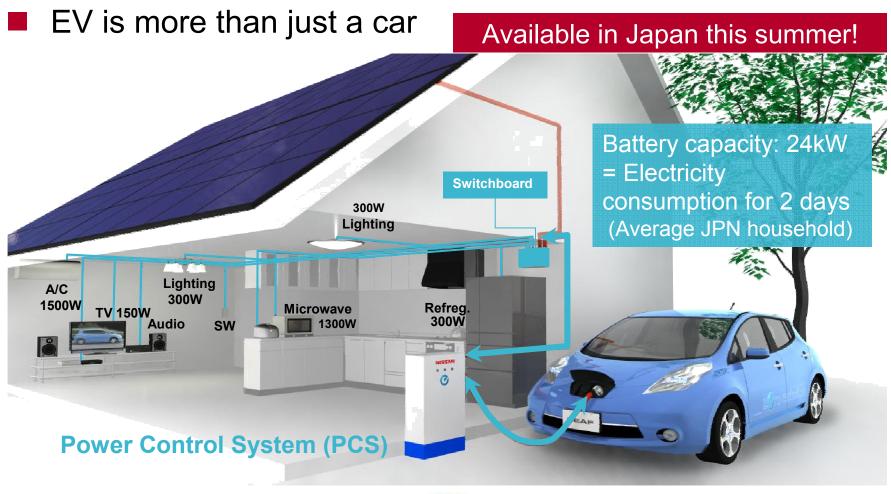




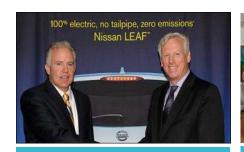


lines for gas

Beyond Green: New energy management



Public-Private Partnerships: Now more than ever!



Toronto



Sao Paulo



Quebec



Singapore



Portugal



Cataluña



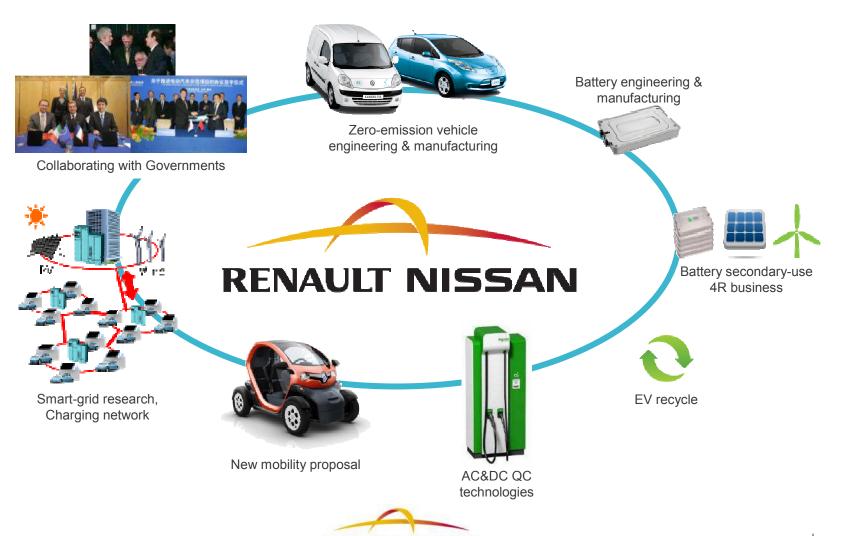
Ireland / ESB



Amsterdam

"A new era is beginning in the global automotive industry. At Nissan and Renault, we are working together to lead the way to mass-market zero-emission mobility."

Zero-emission cars drive a sustainable society!

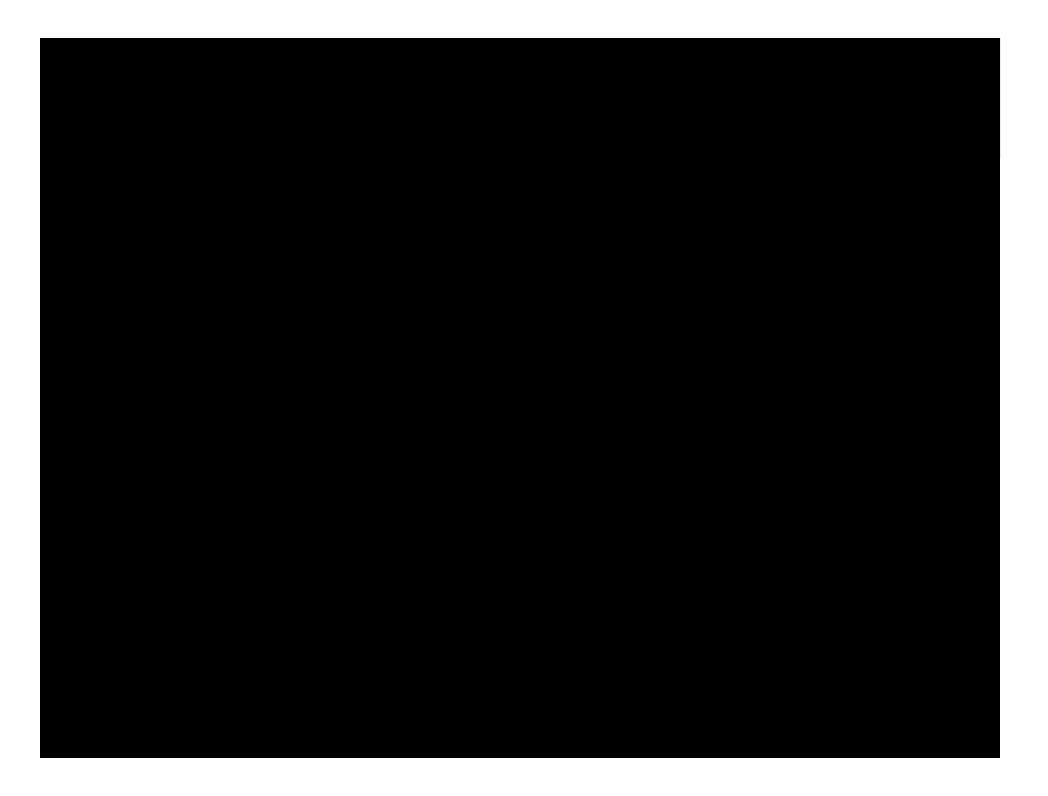


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Electric cars are not the future. They are NOW!



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END

