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"Wireless Charging System"

FUTURE TECHNOLOGY

Category

Environment Technologies

Charging that is more convenient and easy. Nissan looks into the values of the EV

The characteristic of the EV is that it may be easily charged in parking spaces, whether at home or at work. EVs, which were previously charged by connecting the cable, have evolved even further. Nissan has developed a "Wireless Charging System" which allows recharging to take place simply by parking the vehicle. Charging is able to commence once the vehicle is above the charging device installed in the ground of the car park automatically. This smart system makes charging easier and simpler. In order to make EVs more convenient, Nissan has been able to realize this brilliant concept through its technology.

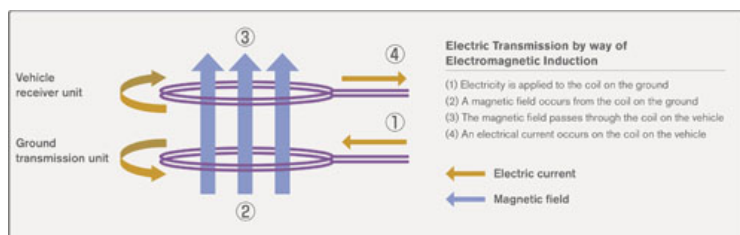
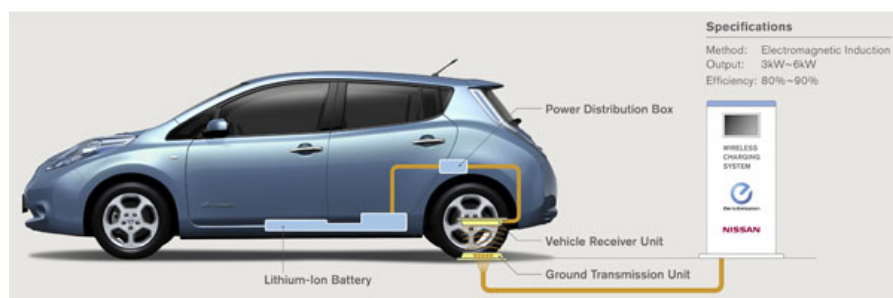


The Nissan EV has taken a head start towards the realization of an outstanding future.

Nissan has opted for an electro magnetic induction method to this system. The distinct technology has achieved a charging efficiency of 80-90%, which is similar to that of cable charging. Electricity is applied to coils on the ground transmission unit in order to generate magnetic flux, which works to transmit electricity to the other coil on the vehicle receiver unit. This mechanism is adaptable to a wide radius and will still manage to charge your vehicle if it happens not to be perfectly parked.

System Structure

Electricity is provided from the ground transmission unit to the vehicle receiver unit through electromagnetic induction. Also, the charging status may be confirmed with the control panel.



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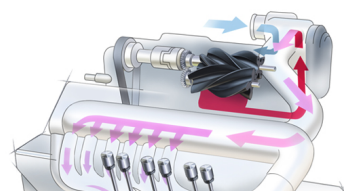
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NISSAN TECHNOLOGY



022

Reducing is Evolving: Downsized Engine Combines Low Fuel Consumption & Power

2013/03/11

To upgrade an engine means increasing its size, right? No, bigger is not always better...

Pickup Information





The New Generation XTRONIC CVT

The CVT (Continuously Variable Transmission), with its non-step gear change, offers not only smooth acceleration, but also a good fuel consumption level due to its gearing selection, and a powerful drive, thanks to the ability to select a transmission curve which is combined to the optimal engine rpm according to the vehicle speed.



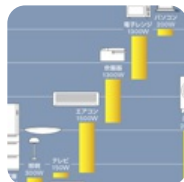
"New hybrid system (for front-wheel drive vehicles)"

To contribute to CO₂ reduction by fitting hybrid systems into vehicles of various kinds regardless of their drive mechanisms and vehicle types, Nissan has moved another step closer towards this dream.



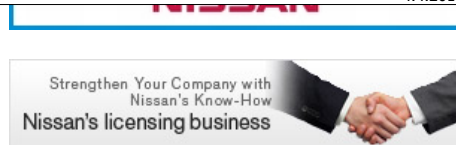
Next-generation Fuel Cell Stack

The fuel cell has been trialled and introduced in a variety of fields from 1000kW class electric power stations to 100W power source for ordinary homes.

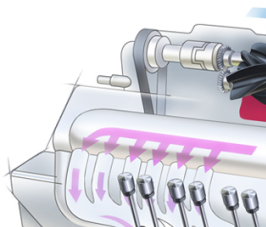


"LEAF to Home" Electricity Supply System

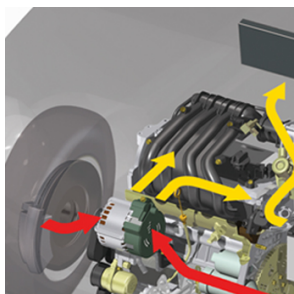
EVs are currently gathering attention as a car able to be charged at home. The times are surging forth, however. Present technology makes things function the other way, allowing the cars to in fact supply the household with energy.



NISSAN TECHNOLOGY MAGAZINE RELATED ARTICLES



022
**Reducing is Evolving:
Downsized Engine
Combines Low Fuel
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021
**Driving Towards the
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018
**Code Word: Suisui! EV
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KEYWORDS: Environment, ZeroEmission, ev, Battery