NISSAN

Innovation
that excites

LEAF

zero Emission

THE ELECTRIC CAR FOR **THE REAL WORLD**

At Nissan, we've been building cars the same way for decades. But as time progresses and lifestyles went in and out of fashion, we thought it is time to break the mould.

So we started designing a car. A car totally diffrent, but still embraces the lifestyle of today, and ready for the future.

Not a slightly improved car, but a completely and unmistakably new car. A car with no fuel tank, transmission or exhaust pipe.

Instead of petrol, this car runs on 100% electricity - a renewable and sustainable source of energy that can be produced locally, cheaply and ecologically.

A car that is MORE economical, MORE energy-efficient and MORE responsible than any fossil-fuelled car on the planet.

A car that is ready to be driven home today and fit into your daily routines comfortably.

A car built for the real world. Introducing the Nissan **LEAF**.

01 Maximum performance. Efficient mobility.

Maximally efficient motor with minimum energy loss

Nissan's optimised electric motor features excellent energy efficiency that minimises energy loss. Efficiency is further improved by a regeneration system that recovers kinetic energy from the rotating wheels as electric energy.

Highly responsive inverter

Originally developed to reduce energy loss, the inverter instantly converts stored power from the battery to electricity, immediately responding at the press of the accelerator pedal.

Lithium-ion battery

Fully Charged Driving Range
195 km*

To ensure reliability, the Nissan LEAF's large-capacity lithium-ion battery uses a readily plentiful resource that has a stable crystal structure. The battery cells are structurally laminated, optimised and modularised to improve cooling effect, creating a roomier cabin space and affording excellent manoeuvring stability - giving you a phenomenal driving range of 195km*!

*Based on New European Driving Cycle (NEDC).

02 Overview

Battery Charging

Leave your Nissan LEAF charging overnight, and it will be fully charged in the morning so you can start driving right away.

Sleek Aerodynamic design

The headlamp lens covers, side mirrors, body panel and antenna are designed to redirect airflow, reduce wind noise and maximise the LEAF's aerodynamic performance.

New Electric Vehicle platform

The LEAF's body rigidity has been enchanced to minimise vibrations and ensure a smooth, quiet ride.

Rear roof spoiler with solar panel

Help charge the 12V battery to run vehicle accessories.

Luggage room

Two 9-inch golf bags* can be comfortably accommodated into the 370 Litre space without having to fold down the 60/40 split rear seat.

*Depending on the configuration and dimensions of the bags.

Optimum Vehicle Packaging

Plenty of room for five adults thanks to its EV-dedicated platform and lithium-ion battery placements - giving exceptional roominess with plenty of luggage space.

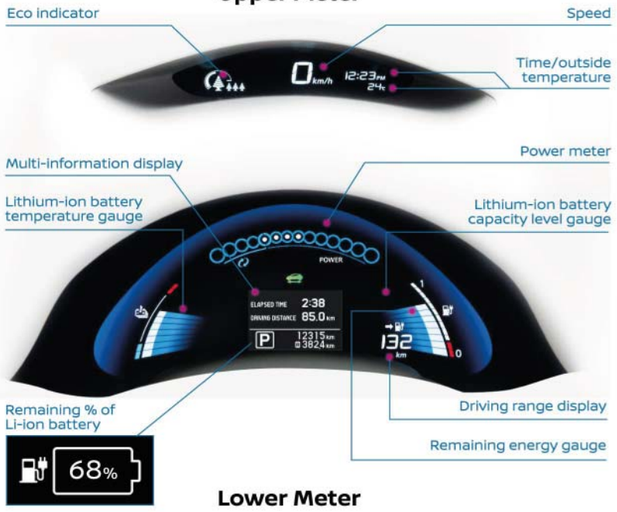
03 Driving comforts, at your finger tips

A two-tiered meter layout shows you everything you need to know to drive efficiently, as well as battery charging status and regeneration status.

SPACIOUS INTERIOR. MODERN COMFORTS.

SENSIBLE MOBILITY.

Upper Meter



Lower Meter

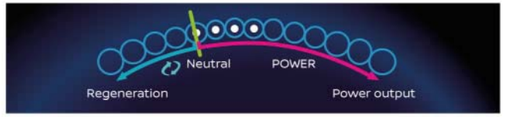
Eco indicator and ECO TREEs to assist eco driving

A: Eco indicator lets you know how efficient your driving is, giving you guidance on acceleration and braking

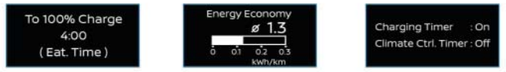
B: ECO TREE is a display that demonstrates in an illustrative way the positive results of more efficient driving.

Power meter with clear, easy-to-understand indications

The inner dots indicate the motor drive or regeneration status.



Multi-information display shows detailed vehicle status



Charging time | Energy economy | Timer setting status (charging and climate control)

04 Accessories

1 Drive selector (with B-mode)
A mouse-like shift knob operable with a flick of your wrist. Flick also to engage B-mode.

2 Centre console box with armrest
Stores small articles. When closed provides a place to rest your arm.

3 Audio controls with Bluetooth hands free
Control volume, station and song selection, and answer calls within the reach of your thumb.

4 Cruise control (with ECO-mode)
Automatically maintains the speed set by the driver. Access ECO-mode at the push of a button.

05 Support Functions & Features

Driver and passenger request switch

Intelligent key (i-key)

Start-stop button

NATS Security System

Nissan Anti-Theft System's in-built immobiliser utilises multiple codes to prevent unauthorised deciphering of codes. This added measure of security is incorporated into the Nissan LEAF.

06 On-board Functions Within Your Reach

1 Charging Port Lid Release Buttton
Push to open Charging Port lid.

2 Charging Port Locking Switch
Select Charging Port to AUTO LOCK-UNLOCK, ALWAYS UNLOCKED or ALWAYS LOCKED during charging.

3 Charging Timer Off Button

4 Vehicle Sound for Pedestrian (VSP) Button
Turn on to activate computer generated sound to alert pedestrians.

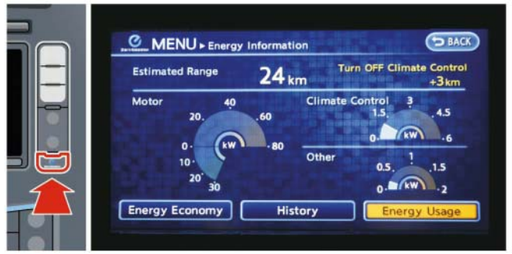
07 ECO Driving

1 B-mode
B-mode increases Regenerative Braking to re-charge your Li-ion batteries every time you coast downhill or decelerate.

2 ECO-mode
ECO-mode helps you to extend the Driving Range by utilising mild acceleration with A/C heater management.

3 B-mode with ECO-mode
Using both B-mode and ECO-mode will give you the most Regenerative Braking potential as well as extending the Driving Range via mild acceleration with A/C heater management.

08 EV Info Screen Menu



Press the Zero Emission button to display the "Zero Emission" Menu, which presents various choices of several useful functions.

Reverse Camera with Predictive Path Technology

The rear camera* with Predictive Path Technology* makes parking easy and safe by helping to ensure you avoid obstacles when reversing.

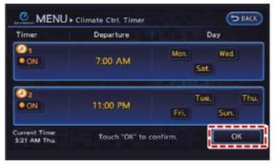
*The rear camera is a parking aid only and is not a subsitute for proper reversing procedures. Always check behind your vehicle before reversing.

Energy Information

A Multi Information Display indicates the Estimated Range available, possible range extension, as well as Motor and Climate Control consumption.

Timer for Charger and Climate Control

The driver can set the Nissan LEAF to commence charging at any time the driver wants. In addition, the air conditioning can be turned on before the driver enters the vehicle so that the driver can start driving with the cabin set to a comfortable pre-determined temperature.



80% Maximum Charge Setting

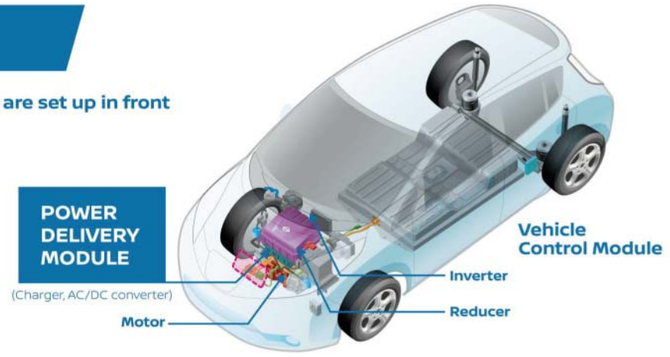
This setting allows you to set the maximum battery charged capacity at 80% to improve battery longevity.

09 E-power train

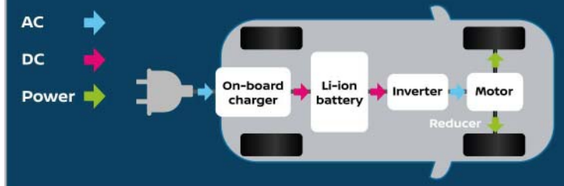
The high voltage units, charger, converter and motor are set up in front for effective and compact layout.

Benefit

- Downsized by 30% for cabin spaciousness
- Reduced weight by 10% for better power efficiency



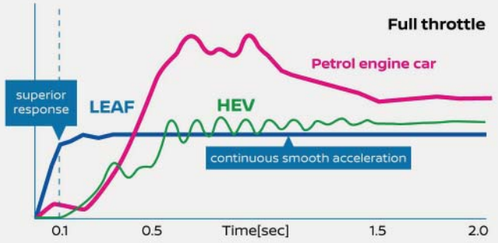
Flow of electric power



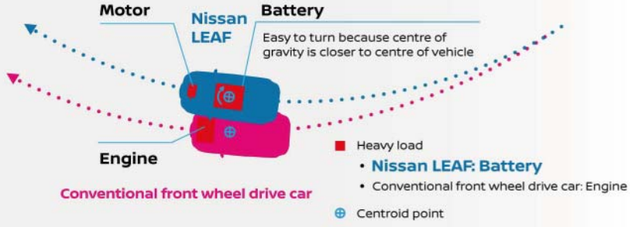
Efficient e-Power Train

	While driving	While braking
Internal Combustion Engine Vehicle	* Large amount of energy wasted	* Large amount of energy wasted, added with braking
Electric Vehicle	* Small amount of energy lost	* Energy gets regenerated, and charges the battery

Maximum torque, instantly



Smooth cornering with stable handling



Smooth acceleration Nissan LEAF's motor is ready to give you maximum torque as soon as you turn it on. With none of the vibration you get from an ordinary engine, the electric motor accelerates so smoothly you'll barely feel it.

Confident handling The lithium-ion battery is mounted under the floor of the EV-dedicated platform. This provides excellent weight balance and a low centre of gravity. Accurate driving force control helps improve manoeuvring stability.

Amazing quietness Whether you are stopping, accelerating, or cruising, Nissan LEAF is astonishingly quiet. Besides being free from engine noise, it incorporates precision motor control and low-noise technologies throughout the body to keep the cabin comfortably quiet.

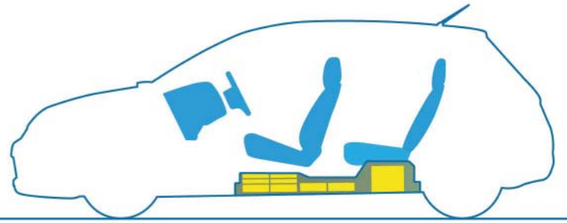
10 The new power core

The Nissan LEAF's e-Power Train is the core feature that drives the Nissan LEAF forward. A compact, lightweight motor-inverter combo is mounted in the front, and is connected to laminated lithium-ion battery cells - thus creating a clean and efficient mobility solution.

*Charging at 6.6kW from the time the low battery warning comes on until the battery is fully charged at the optimum temperature of 25° Celcius.

Compact and light compared to conventional battery

Type	Lithium-ion battery
Capacity	24kWh
Max. Power	90kW
Voltage	360V
Size (mm)	1640 x 1200 x 260
Charging Rate	6.6kW



Safe and secure battery pack placements

Nissan LEAF's body is designed to protect the lithium-ion battery, while high-voltage parts such as the battery and motor incorporate insulation and auto shutdown feature for added protection.

11 Safety

SAFETY SHIELD

SAFETY SHEILD – Nissan's concept of "the vehicle that helps protect people"

In the area of safety technology, Nissan pursues innovation as part of its "Safety Sheild" concept, an advanced, proactive approach to safety issues based on the idea that cars should help protect people. This approach provides various measures to help the driver and passengers better avoid dangers in ways that are optimised to each of a wide range of circumstances that the vehicle may be in, from prior to a risk appearing through to post any accident should it occur.

Helps the driver to maintain comfortable driving

Even when a risk has not appeared, Nissan technologies make it easier for the driver to maintain safe driving conditions. Some of these innovations reduce the driver's burden, while others enhance visibility and awareness of the immediate surroundings at night and when parking, for example.

LED Headlamps
Intense long-range illumination and optimum visibility with an automatic leveliser.

Rearview monitor
Colour monitor with vehicle width/distance display and predictive path function.

Front bumper Daytime Running Lamps (DRL) with fog lamps
On-the-road safety and visibility with fog lamps that clearly light up the road conditions.

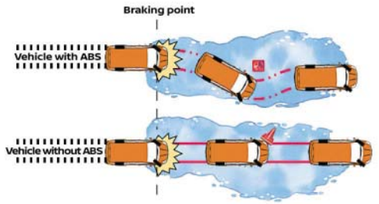
Rear fog lamp
Useful in low visibility weather conditions such as dense fog, heavy rain, or smoke

High mounted LED stop lamp
Other cars will get a clear view of the LED stop lamp from its high position mounted on the LEAF.

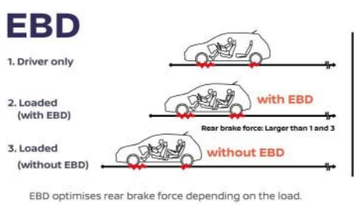
Helps the driver to recover from dangerous conditions to safe driving

When a risk appears, warnings and automatic countermeasures help the driver avoid it.

Anti-lock Braking System (ABS)
Under slippery or hard braking conditions, control is maintained by the ABS as the brakes are mechanically pumped at a rate of 20 times per second.

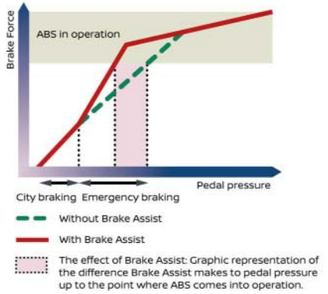


Electronic Brakeforce Distribution (EBD)
Contributes to safe driving by enhancing braking control to optimise braking performance with loads of various weights.



EBD optimises rear brake force depending on the load.

Braking Assist System
Ensures additional stepping power by activating ABS and EBD earlier during hard or panic braking.



Vehicle Dynamic Control (VDC)
Automatically controls brake and engine output to enhance stability when sensors detect that the vehicle may slip sideways due to steering, braking, or accelerator pedal operation.

Traction Control System
When the standard Traction Control System senses drive-wheel spin, it responds by reducing motor power or applying brake pressure to help maintain traction.

Hill Start Assist (HSA)
Hill Start Assist system applies the brakes for 2 seconds, allowing you enough time to switch from the brake pedal to accelerator to prevent the vehicle from rolling back.

Helps minimise the damage when a collision is unavoidable

In cases when a crash cannot be avoided, additional Nissan technology helps reduce injuries and damage by activating the brakes, restraining passengers, and applying other measures.

- **Zone Body construction with pedestrian-injury reduction:** Enhances cabin safety and mitigates impact to the heads and chests of pedestrians.
- **Dual front, side and curtain SRS airbags:** Will help to protect the occupants in the case of an impact.
- **Seatbelts with pretensioner and ISOFIX:** ISOFIX system to secure baby seat and seatbelts with pretensioner to secure passengers.

Vehicle structure that protects the passengers as well as the battery and motor

Nissan LEAF's body is designed to protect the lithium-ion battery, while high-voltage parts such as the battery and motor incorporate insulation for added protection. The high-voltage system is designed to shut down in the unlikely event of a collision. The lithium-ion battery controller also monitors the battery to prevent overheating due to excess voltage, excess discharge or external heat.

12 Reliability Testings on the Nissan LEAF

At Nissan, we conduct quality checks under various conditions to ensure we provide a vehicle that can be driven safely.

Safety Performance for Lightning Strike

The LEAF is designed to not be affected by lightning with its leak prevention function.

Driving Test at Flooded Road

The LEAF can be properly operated on flooded roads due to its isolated high voltage electric circuit hidden away from the exterior body parts.

Road Driving Test

The Nissan LEAF have gone through complete driving tests around the world - in the cold weather region in Alaska, high speed situation on Autobahn and also in Paris under severe traffic conditions.

Waterproof Qualities of the Charging Port

Additional safety features of high insulation and waterproof performance prevents any danger from electric shock while charging.

To view reliability testings, visit **HTTP://WWW.NISSAN-ZEROEMISSION.COM/EN/QUALITY**

NISSAN
GREEN PROGRAM

Seeking a symbiosis of people, vehicles and nature

Nissan's environmental philosophy can be described as, "a symbiosis of people, vehicles and nature." It is our ideal for a sustainable mobility society now and our goal for the future. We established the Nissan Green Program with specific objectives to realise the goal, and we are diligently making concerted efforts to reduce environmental impact at every stage of the vehicle life cycle and our corporate activities.

Pearl White (M)

Blue Ocean (M)

Brilliant Silver (M)

Metallic Slate (M)

Super Black (S)

Upholstery **Black Leather interior**

M Metallic S Solid

Basic	
Car code	ZEO
Door	5
Body type	Hatchback
Seating capacity	5
Motor	
Code	EM57
Type	AC synchronous
Output	80kW
Max power	80[109]/3008-10000rpm (kW[PS]/rpm)
Max torque	254[25.9]/0-3008rpm (N・m[kgf・m]/rpm)
C02	0
Transmission	
Type	Single Speed Gear Reduction
Chassis	
Drive type	Front motor, front drive
Steering type	Power assisted electric power steering system with Rack and pinion
Suspension FR	Independent Mac Pherson strut, coil springs
Suspension RR	Torsion beam axle, coil springs
Mechanical Brake	FR/RR Ventilated Disc
Cooperative Regenerative brake	Electrically-driven Intelligent Brake
Tyre size	205/55 R16 91V
Spare tire size	T125/90D16 98M
Wheel	16 X 6½ J
Spare wheel	16 X 4T
Acceleration	
0-100km/h	11.5 Sec
Max speed	above 140km/h
Mobility	
Electrical consumption	150 Wh/km
	ECE R101 (NEDC) Mode
Max Driving Range (based on NEDC)	195km

Battery	
Type	Laminated lithium ion
Voltage	360V
Capacity	24kWh
Number of module	48
Charging Time	
230V 6.6kw	4 hours
230V 3.3kw	8 hours
HVAC electric consumption	
Max @ Cooling	4.6kW
Max @ Heating	5kW
Dimensions	
Exterior dimension	
Length	4445 mm
Width	1770 mm
Height	1550 mm
Wheel base	2700 mm
Ground clearance	160 mm
Minimum turning radius (kerb to kerb)	10.4
Interior dimension	
Length	2080 mm
Width	1460 mm
Height	1185 mm
Luggage	
VDA (until Tonneau Board) (RR Most)	370 L
Aero dynamics	
Cd	0.29
Mass	
Curb weight	1493 kg
Gross Vehicle Mass	1890 kg
Front Axle	1030 kg
Rear Axle	965 kg
Warranty	
Battery	3 years / 100,000km
e-PT	3 years / 100,000km

V Voltage A Ampere

Unit : mm

ABS Anti-Lock Braking System

ZONE BODY Crushable Zones Safety Restraint Zone

VDC Electronic Brake Force Distribution

FULLY IMPORTED

3 YEAR WARRANTY 3-year/100,000km warranty, whichever comes first. Terms and conditions apply.

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