

EV TOPICS



Zero Emission

As the industry leader in zero-emission mobility, Nissan is committed to the penetration of electric vehicles (EVs) in the market.

Nissan LEAF is the world's first mass-produced 100% electric vehicle and the world's best-selling EV. Since Nissan LEAF first went on sale in December 2010, about 70,000 units have been sold globally as of the end of June 2013. Through further improvements in vehicle performance and cost reductions, as well as efforts to enhance charging infrastructure, Nissan is committed to helping bring about a society where customers can use EVs with full peace of mind.

Here is the latest information on the company's activities in the zero-emission field:

1 Updated LEAF

In November 2012 we released a minor model change to Nissan LEAF that incorporates improvements based on feedback collected from purchasers since the first Nissan LEAF went on sale in December 2010.

The vehicle's driving range on a single full charge has been extended thanks to a overhauled electric power train, enhanced regenerative braking system, new energy-efficient heating system, substantial weight reduction and other improvements.

An affordable S-grade Nissan LEAF has been introduced to help bring the vehicle to even more customers.

In each market, the company is reviewing vehicle options and other factors to make Nissan LEAF even more convenient to use.



Nissan LEAF

2 Localized Production of Nissan LEAF Begins

In addition to our Oppama Plant in Japan—where we manufacture the Nissan LEAF body—and the Automotive Energy Supply Corporation (AESC) plant in Zama—a joint venture launched by Nissan and NEC Corporation, where Nissan LEAF batteries are made—we have now started Nissan LEAF body and battery production in the United States and United Kingdom.

United States

In January 2013, Nissan ramped up LEAF assembly at our U.S. manufacturing plant in Smyrna, Tennessee. Prior to this, in December 2012, our Smyrna automotive battery plant began making batteries for Nissan LEAF. When fully tooled, this plant has the capacity to produce battery modules for up to 200,000 vehicles a year to match market demand.



Smyrna automotive battery plant

Europe

In March 2013, Nissan LEAF production began at our U.K. manufacturing plant in Sunderland. The vehicles manufactured there all contain lithium-ion batteries manufactured at Nissan's U.K. battery plant, which commenced operation in Sunderland in 2012.



Sunderland automotive battery plant

3 A New Organization to Promote Charging Infrastructure

In April 2013 we set up a new organization to promote charging infrastructure in Japan, the United States and Europe. To build range confidence we have been cooperating with relevant companies, local authorities and national governments to propose the installation of charging points in appropriate locations and to share information on how to install charging stations inexpensively. Nissan is engaging in various efforts with a wide range of partners to accelerate the installation of charging infrastructure.

4 Promoting New Advantages to Electric Vehicles

Combining Nissan LEAF with our power control system makes it possible to use the vehicle's 24 kWh high-capacity battery as a storage device to supply power to a home. It is even possible to charge the vehicle's battery at night, when electricity usage is low, and draw power from it during the day, thereby reducing peak demand on the grid. The EV is also a potential backup electricity supply in emergencies, and can be run on electricity generated from renewable sources, such as solar power.

About 1,500 "LEAF to Home" systems have already been sold in Japan as of the end of June 2013. The system won the Ministry of Economy, Trade and Industry (METI) Minister's Prize in the Grand Prize for Excellence in Energy Efficiency and Conservation program.



LEAF to Home