

New Technologies

TECHNOLOGICAL EXCELLENCE IS LITERALLY A GIVEN AT NISSAN, WHICH HAS LONG LED THE INDUSTRY IN INNOVATIONS THAT ADD MORE ENJOYMENT, MORE SAFETY, MORE PERFORMANCE AND MORE ENVIRONMENTAL HARMONY TO DRIVING. TODAY THAT INNOVATION CONTINUES INTO NEW DRIVING IT, SAFETY AND ENVIRONMENTAL TECHNOLOGIES, AND MORE.

Expanding Automotive Horizons

Shifting Ahead in IT

The continued unfolding of the information age means that automobiles are no longer isolated objects. Information Technology (IT) developments place the car and its driver, in a new relationship of increased information flow with the world around it.

Carwings, the Japan's first total telematics system introduced in the new March, followed by the new Elgrand and coming in many new models, is part of Nissan's effort to provide safe, user-friendly technology that is affordable, convenient, and multi-purpose.

Supporting Nissan's technical strength is a US\$38.8 million expansion at the Nissan Technical Center North America, Inc. (NTCNA). Over the next two years, NTCNA, located northwest of Detroit, will add some 260 new jobs—nearly all high-skill engineering and technical positions—a new three-story engineering building and renovation of the facility. The investments are aimed at expanding and enhancing vehicle engineering capabilities for Nissan vehicles sold in North America.

Leading the Way on the Environment

Nissan's commitment to the environment is based on a belief that, as for safety, a real impact can come only when technical solutions are affordable and readily available. This is clear in the wide range of technologies which made possible—and realistic—developments such as the world's cleanest gasoline engine, found in the Bluebird Sylphy and Sentra CA.



iDeo, a concept car shown at the 2001 Tokyo Motor Show, utilizes interactive communications as part of the search for the ideal networked vehicle





Collision test

Nissan is aiming for the expanded adoption of **ultra-low emission vehicle (U-LEV)**, which will account for **80 percent of all Nissan passenger vehicles sold in Japan by the end of March, 2003**. With this volume, there will be a significant and immediate impact on air quality. It is estimated that the NOx and HC reduction will equal the sales of more than 400,000 zero-emission vehicles—something that will not be realized within the next few years.

In recyclability, Nissan is also advancing the recycling in new models to attain a recyclable ratio of 95 percent or higher. And in manufacturing, Nissan targets to have cut in half the 1999 volume of incinerated waste by 2005.

The Quest for Real World Safety

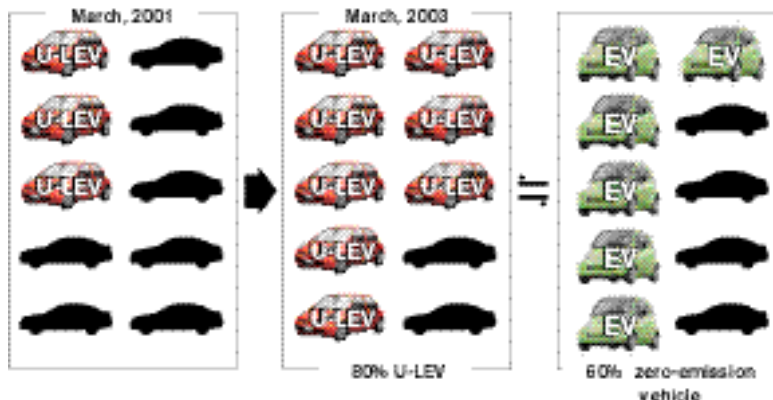
Safety research should not only be conducted through computer simulations or in research labs. Data from actual accidents helps Nissan to find solutions to reduce injuries and fatalities. Nissan combines lab work with real world studies.

The all-new FM package used on the Skyline, Infiniti G35 and Stagea provides world-class safety performance in all types of collisions, including full overlap and offset frontal impacts, side impacts and rear-end impacts.

Various new technologies are used to achieve a high level of crashworthiness in both full overlap

and offset frontal collisions, including a mechanism that drops down the engine in a collision, a mechanism that prevents rearward brake pedal movement and a breakaway propeller shaft construction.

Environmental Improvement through Expanded Adoption of U-LEV



By reaching a level of 80 percent U-LEV vehicles, Nissan will have equaled the realization of 60 percent zero-emission vehicles—still many years to come



Japanese Prime Minister Junichiro Koizumi and Carlos Ghosn with Nissan's fuel cell vehicle (FCV)