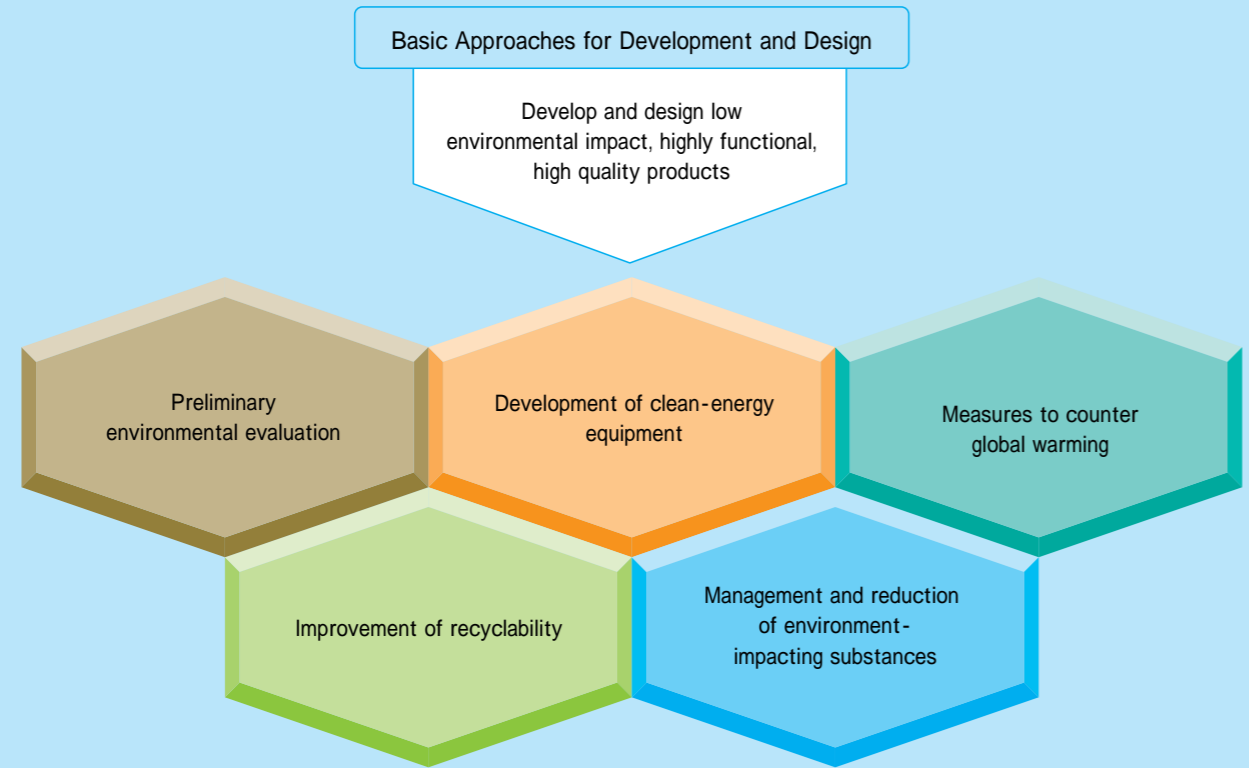


Development and Design

Basic Approach

Aisin introduced Life Cycle Assessment (LCA) five years ago as a method of implementing initial evaluations of environmental aspects in relation to its products, and since then has worked hard to develop environmentally friendly products. In addition to this, based on our Environmental Action Plan, we consistently prioritize not only the management and reduction of environment-impacting substances, but also, as a global citizen, strive towards the development of clean energy devices, and the presentation to the world of ever-better products.



Improvements in the Environmental Friendliness of Automotive Parts

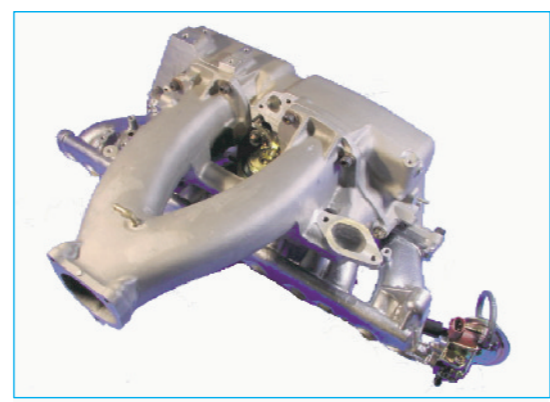
Development of automotive parts that offer energy savings and reductions in atmospheric pollution

The automobile industry is currently proactively involved in working towards reductions in fuel consumption and atmospheric pollutants. Aisin is currently pressing ahead with development operations that seek to improve the environmental friendliness of automobiles, through, for example,

reducing vehicle weight, and improving engine efficiency and transmission efficiency, responding both to the requirements of car manufacturers and drivers.

[Improvements in Engine Efficiency]

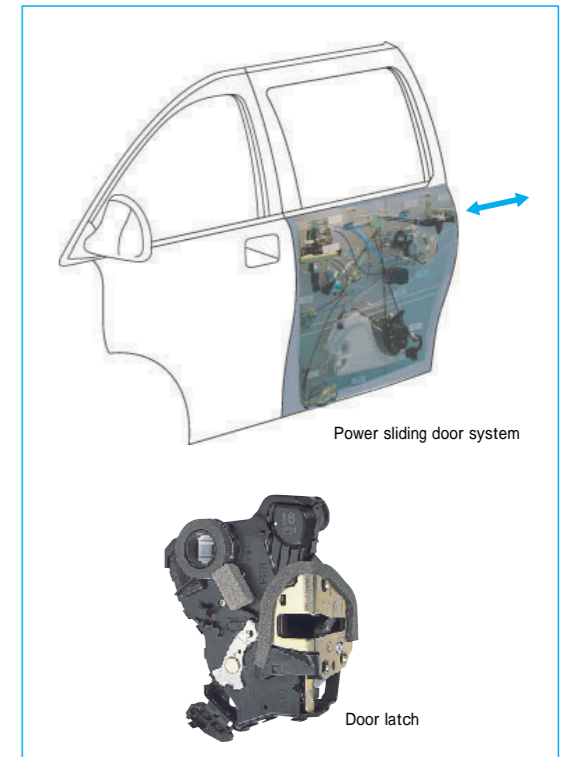
Improving engine efficiency, reducing the amount of atmospheric pollutants emitted from the engine, and reducing the amount of fuel consumed by the engine are all effective in reducing the environmental impact of automobiles. Aisin has been involved in the development of variable intake manifolds and linear variable valve timing devices for many years, which bring improvements to the efficiency of automobile engines.



Variable Intake Manifold

[Accelerating Weight Reduction]

Weight reduction is the most effective way of improving the environmental friendliness of automotive parts. The power sliding door system is a drivetrain-type component, whose drive system and structure have been improved, resulting in a weight reduction of 25% over Aisin's conventional models. In addition to this, locating the operational parts of the door latch on the side allowed us to merge parts, giving a 30% weight reduction over our previous parts. We are also working on reducing the weight of other products, such as sunroofs, throughout the company.



Commitment to Intelligent Transport Systems (ITS)

ITS is currently being developed at a worldwide level, aiming to improve the smoothness and safety of automobile traffic system. ITS contributes to the environment through reducing congestion, thereby improving fuel consumption and reducing emissions of NOx and other exhaust gases. It also acts preventively to reduce accidents, which leads to reductions

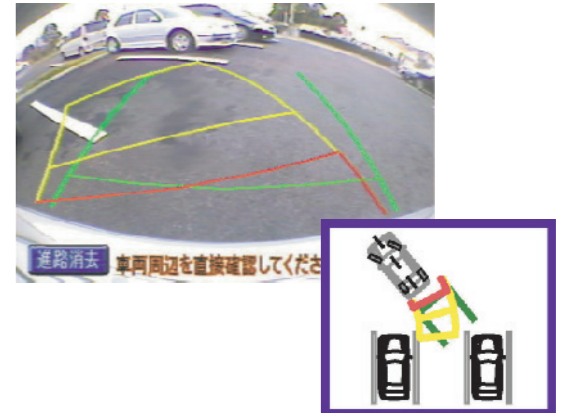
in the consumption of resources. Aisin is implementing development of ITS through work on vehicle control, image recognition, and navigation technology.

Bus-fleet automatic drive system



Automatic drive system operating in the bus fleet at the Awaji Farm Park on Awaji Island. This is part of Toyota Motor Company's IMTS (Intelligent Multimode Transport System) development.

Parking assist system



A monitor screen at the driver's seat allows the driver to view the axis of travel and park quickly and precisely, even when parking in an unfamiliar or difficult location. This can help save fuel.