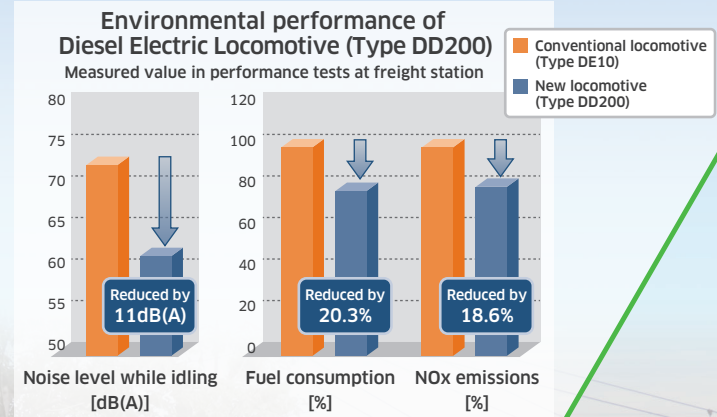


# Diesel Electric Locomotives (for main line operation and shunting)

Low fuel consumption, low NOx emission,  
low noise and light weight locomotives

Expected advantages by replacing conventional diesel hydraulic locomotives with newly developed diesel electric locomotives are as follows:

- Reduction of fuel consumption
- Reduction of NOx emission
- Reduction of noise emission
- Reduction of damage for tracks (as a result of weight reduction)



**2020**

**Kawasaki  
Ecological Frontiers  
A class**



### Product Description

Diesel electric locomotives (Type DD200) have been developed as successors of conventional diesel hydraulic locomotives (Type DE10 etc.) for non-electrified area. They can be used for both main line operation and shunting use. Japan Freight Railway Co., Mitsubishi Electric Corp. and Kawasaki Heavy Industries, Ltd. have developed them jointly

### Features

- Diesel electric traction system is employed to achieve higher operation speed, light weight design and easy maintenance while conventional locomotive employs diesel hydraulic traction system
- Signal protection devices (called ATS) are provided to allow operations in most of all areas in Japan
- Carbody style (such as driving cab arrangement, car end structure etc.) is designed for convenience of shunting driver and shunting staff