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## **Daihatsu introduces next-generation engines for ASEAN Launched in Indonesia and Malaysia**

Daihatsu Motor Co., Ltd. (hereinafter “Daihatsu”) has developed next-generation engines for ASEAN, launching them in the countries of Indonesia and Malaysia. In Indonesia, one of the new engines has been mounted in the Xenia, a model recently launched by Astra Daihatsu Motor (hereinafter “ADM”), an Indonesian subsidiary of Daihatsu.

The two new engines are the 1NR-VE engine (1.3-liter) and the 2NR-VE engine (1.5-liter). The 1NR-VE engine is mounted in the Xenia and the Avanza, a brand of the Toyota Motor Corporation (hereinafter “Toyota”), and is manufactured by ADM. The 2NR-VE engine is mounted only in the Avanza. Costs have been drastically reduced, thanks to measures such as the expanded use of locally-procured parts. The high-performance, fuel-efficient engines also incorporate technologies such as dual VVT-i\*.

The base parts of the new engines have been jointly developed by Daihatsu and Toyota, while Daihatsu independently ensures they comply with the FR specifications. The new engines will be manufactured on a new line at the ADM Karawang Engine Plant. The line is the latest in manufacturing lines, and is characterized by the introduction of Daihatsu’s production concept of simple, slim and compact (SSC).

Technologies will be developed for many different applications, and will also be incorporated in the vehicles of Perodua, a local joint venture in Malaysia. In Malaysia, the new engines will be manufactured at a new engine company that will commence operation in mid-2016. The new company’s plant will also follow the concept of SSC. Positioning the new engines as the next-generation engines for ASEAN, Daihatsu will strive to strengthen its competitiveness in the ASEAN region.

\*VVT-i is a registered trademark of Toyota Motor Corporation.

### **[Information about the Karawang Engine Plant]**

Location: Karawang, West Java

Start of operation: November 2006

Items manufactured: Engines and cast components

Site area: Approx. 177,000 square meters

Building area: Approx. 85,000 square meters

(after the new production line starts operation)

Production capacity: 530,000 engines