Toward The Development of Indonesia Automotive Research Institute

Outline

- Background
 - Indonesia Automotive market
 - Reasoning to Develop Indonesia Automotive Research and Development Institute (INARD)
- Vision and Mission
- The role of INARD
- INARD Activities

Background : Domestic Market and Forecast for 1997-2015 (Gaikindo)



Note:

Domestic market growth assumptions in 2012 to 2013, 2013 to 2014, 2014 to 2015 = 10%

Background : Reasoning to Develop INARD



Vision

• To be an Engineering and Development Institution to support an achievement of Indonesia Automotive Industry as a World Class Industry.

Mission

- To develop a human resource in the automotive field based on grading system
- To develop technology in design, manufacturing, and testing of automotive product and its component
- To develop a special production equipment for the automotive industry



INARD ACTIVITIES



Energy Diversification Programme for Transportation Sector in Indonesia

Indonesian Automotive Research & Development Institute (INARD)

Outline

• Background

- Presidential decree for diversification energy
- o Environment Ministry decree for Emission New type vehicle approval
- Ministry of Industry programs dor Development of Low Cost Green Car, Low Cost Public Trasport Vehicle and Low Carbon Emission Vehicle.
- Research and Development of green fuel and Green Car in Indonesia
 - o Biofuel: Bio-diesel and bio-ethanol
 - o Dual-Fuel Systems
 - o Electric Car

Background

- Presidential decree for diversification energy
 - o In 2025 energy sector in Indonesia will be as below:
 - Fosil fuel 20%
 - Gas 30%
 - Biofuel 5%
- Environment Ministry decree for New type vehicle approval:
 - Exhaust Gas Emission according to Euro 2 for Light passanger and comercial Vehicle, Heavy Duty Vehicle and Motor Cycle
 - Plan to move to Euro 3 for Motor Cycle
- Ministry of Industry programs:
 - o Low Cost Green Car
 - o Low Cost Public Car
 - o Low Carbon Emission

Biofuel – Bio-diesel



Bio-ethanol



Coal Gasification and Liquification



Development of Dual-Fuel Systems of Bus Engine (Diesel + Gas)



Electric Car Preliminary Research



THANK YOU