

## Study of Fuel Economy Standard and Testing Procedure for Motor Vehicles in Thailand

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### Abstracts

It is a well-known fact that the majority of fuel energy consumption in Thailand comes from the transportation. This is due to a rapid increase in the amount of passenger car and pickup truck during the last decade. In order to be able to sustain and control the energy consumption to compliance with the 20 years energy plan, the Ministry of Energy has come up with two strategic plans which are encourage and promote the sustainable energy consumption and rule and regulation for the vehicles that will be standardized according to the industries and Thai government. In order to achieve this goal, the “fuel economy standard” research must be conducted by using global standard testing methodology based on carbon balance approach, EURO IV Emission Testing (compliance with the Thai Industry Standard (TIS). Once all of the data have been gathered from the testing results, a regression analysis is applied in order to get the minimum energy performance standard (MEPS) and the High Energy Performance Standard (HEPS). MEPS is a part of national regulation which will be enforced by Thai’s motor vehicle legislation. HEPS is used for encouraging Thai car manufacturers to improve fuel efficiency while reduces the amount of emission that produces to the atmosphere. This will result in sustainable and maintainable energy consumption as according to the Ministry of Energy plan.

### Biography



Mr. Worawuth Kovongpanich is a manager in the testing department at Thailand Automotive Institute (TAI). He earned his Bachelor and Master degrees in Mechanical Engineering at King Mongkut University of Technology Thonburi, Thailand. His specialize fields in the automotive industry included mechanical testing development, stress analysis of vehicle’s components and road load data measurement for vehicle durability evaluation. His recent work involved a project for the study of fuel economy standard which TAI was a consultant for Department of Alternative Energy Development and Efficiency (DEDE). At this present time, he is a member of TISI’s accreditation committee ISO 17025 and serves as an subcommittee of complaint mediation on automotive products and services at the Office of the Consumer Protection Board.

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