

# MODIFIED A WEIGHTED OVERALL VEHICLE EFFECTIVENESS MODEL

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## ABSTRACT

**Purpose:** Modified Overall Vehicle Effectiveness (MOVE) is a method of a measuring a single vehicle performance for road transport, which is developed to solve the “round-trip” problem from the Overall Vehicle Effectiveness (OVE). The goal is to improve the original MOVE to make it suit for each industry on its interested perspective. This paper proposed a newly calculating method with weight setting added on each calculation elements.

**Design/Methodology/Approach:** a literature review on OVE and MOVE were conducted to gain the information on data needed. Data were collected from Royal Project Foundation vehicle usage toward OVE and MOVE for each vehicle were then collected and analyzed.

**Finding:** a total of 3 weigh adding methods which are PEE, OWEE and System Reliability based were compared then suggested for the most suitable method selected. Vehicle Efficiency calculations namely: OVE, MOVE and weighted MOVE were also then calculated and discussed for the advantage/disadvantage for each method.

**Originality/Value:** a newly weight adding method were proposed to develop weighted Overall Vehicle Effectiveness based model in measuring the efficiency of road transport. In addition, the newly calculation methodology also apply and assess in the application of the selected cases.

**Keywords:** Modified Overall Vehicle Effectiveness, Overall Vehicle Effectiveness, Performance measurement, Transport