

Evaluating sustainability of using natural gas as a major transport fuel in Australia: A life cycle assessment approach

P. Koltun*, A. Tharumanaiah

Abstract

For reasons of sustainability, greenhouse gas emissions, and energy security, it becomes necessary to properly evaluate all of Australia's options for powering its transportation fleet. When doing this it is equally important to understand all the costs (economic, social, and environmental) and emissions during the fuel extraction, refining and distribution stages as well as the final combustion stage. All steps in the full pathway contribute to the final economic and environmental profile of any given fuel. The natural gas (NG) family of fuels has to be seriously considered as providing for large-scale transportation. From a combustion point of view, NG derivatives have a lower carbon-to-hydrogen ratio than oil-based fuels and should therefore be cleaner, but the upstream emissions of the fuels need to be properly understood. The supply pathways of gaseous fuels are more diverse than the oil-based fuels pathways, because the sources of gas are varied and can imply substantially different emissions profiles. It is therefore important to understand these various pathways so that the profiles for each can be documented and policy formulated accordingly. This preliminary study is conducted based on a life cycle assessment (LCA) approach to evaluate potential sustainability of using gaseous fuels (LNG/LiNG) for light commercial and passenger vehicles in Australia taking into account information on the production, distribution and use of gaseous fuel. Data for this study are mostly sourced from published literature. The results of the study reveal a significant opportunity for Australia to increase sustainability of the transport fleet if it takes gaseous fuels on as major source for transport vehicles.

Keywords: Transport, Sustainability, Gaseous fuel, Life-cycle approach

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