Review on upgrading and application of biogas as a vehicle fuel

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Abstract

A major challenge for the modern society is to break the dependency on oil and find renewable fuels for the transport sector. Biogas is an interesting fuel that can play an important part in this change. In order to be used as a vehicle fuel, the biogas must be cleaned and upgraded to natural gas quality and is referred to as biomethane. Worldwide there are about 3.8 million natural gas fuelled vehicles in Argentina, Sweden, Brazil, Pakistan, Italy and the US. Even though a large number of countries using this technology, we have failed to use this in Sri Lanka. Aim of this study is to understand the potential of applying biogas for the transport sector in Sri Lanka.