

Mintz, M. and Han, J. *Renewable Natural Gas as a Vehicle Fuel: Current Status, Barriers and Benefits*,
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Abstract

On a well-to-wheel basis, CNG or LNG derived from biomethane has among the lowest greenhouse gas (GHG) emissions of any currently available fuel for light- or heavy-duty vehicles. Clearly, biomethane or “renewable natural gas” (RNG) can make a valuable contribution to meeting low carbon fuel standards and reducing GHG emissions. However, few projects currently convert biomethane from landfills, digesters or wastewater treatment plants into RNG, and still fewer sell the RNG into the motor fuel market. This paper summarizes currently operating projects and newly funded initiatives to produce RNG for vehicle use and details some of the barriers to increased RNG penetration into the motor fuel market and the benefits of RNG displacement of petroleum gasoline and diesel.