



The Renewable Plastic Report

Carbon-Neutral, Truly Sustainable

- **Imagine a world where greenhouse gas is a valuable commodity •**
 - **What really happens to plastics and bioplastics in landfills •**
 - **The U.S. EPA's viewpoint on the Importance of Methane •**

Methane - Nature's Gift to Humanity

Imagine a world where greenhouse gas contributes to a healthy lifestyle for millions of people worldwide. Where GhG propels human beings from one continent to another; from Earth to habitats on Mars.

Imagine using GhG to make plastics with superior qualities than all varieties available today! And can also be turned into natural, organic fertilizers and chemicals for agriculture.

That world is here today. And it is an infinitely renewable, natural resource!

It is called *METHANE*.

Methane is only a problem when it is carelessly released into the atmosphere. But when safely captured it is one of mankind's most valuable natural resources!

It can be safely captured at EPA regulated, LMOP partnered landfills that serve over 80% of the U.S. population. Commonly called **RNG - Renewable Natural Gas**, it is mankind's and planet earth's best friend and helps mitigate global warming.

Unfortunately, many well-intentioned people unknowingly propagate erroneous concepts. Their actions lead to methane escaping into the atmosphere, increasing global warming!

Here are the facts:

- Bioplastics generate GhG that escapes into the atmosphere - rarely, if ever, captured.
- Recyclers reject 90% of all fossil fuel plastics (APR rules).
- Recycled materials are carbon positive and almost always have only ***one final use*** before going to the landfill.
- **RNG Plastics are the only plastics whose GhG is safely captured** at EPA regulated,

LMOP partnered landfills.

The reality is over 90% of plastics and 99%+ of bioplastics end out in landfills.

This chart reveals verifiable scientific facts:

	Bioplastics	RNG Plastics	Fossil Fuel plastics
Carbon impact	Carbon positive	Carbon neutral	Carbon positive
Methane	Quickly released into the atmosphere	No release into the atmosphere	Slowly released into the atmosphere
Landfill effect	Prematurely degrades, produces GhG, no effect on landfill instability	Methane safely captured, helps stabilize landfill for future development	Slowly releases GhG, may add to instability for 80-100 years
End product	Non-biodegradable material including heavy metals, additives, and microplastics. They can pollute the environment and leach into groundwater (Bard & Chat GPT)	The original feedstock – methane (RNG)	A little soil and water vapor
Reuse potential	Useless	New plastic, jet and rocket fuel, LCFS fuels to heat cities, homes, organic chemicals and fertilizers	Useless
Summary	Unsustainable	Closed loop	Unsustainable

Industrial composting facilities at EPA regulated landfills have not reported composting any bioplastics.

The Importance of Methane | US EPA

Methane (CH₄) is a hydrocarbon that is a primary component of natural gas. Methane is also a greenhouse gas (GHG), so its presence in the atmosphere affects the earth's temperature and climate system. Methane is emitted from a variety of anthropogenic (human-influenced) and natural sources. Anthropogenic emission sources include landfills, oil and natural gas systems, agricultural activities, coal mining, stationary and mobile combustion, wastewater treatment, and certain industrial processes.

Methane is the second most abundant anthropogenic GHG after carbon dioxide (CO₂), accounting for about 20 percent of global emissions. Methane is more than 25 times as potent as carbon dioxide at trapping heat in the atmosphere. Over the last two centuries, methane concentrations in the atmosphere have more than doubled, largely due to human-related activities. Because methane is both a powerful greenhouse gas and short-lived compared to carbon dioxide, achieving significant reductions would have a rapid and significant effect on atmospheric warming potential.

- **Visit EPA's Methane page** for detailed information about sources of methane, trends, and projections of future methane emissions.

- Read GMI's fact sheet, **Global Methane Emissions and Mitigation Opportunities**

Why not do your part? Use only RNG Plastics

RNG Plastics™



Renewable for centuries to come

Next newsletter - a Multi-Billion \$\$ Infrastructure is in place

The natural evolution into sustainable plastics is underway!



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**RNG Plastics
good for mankind**



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