

RNG Plastics®

Renewable Fossil Fuel Plastics



Renewed nationwide at EPA regulated landfill recovery centers – a circular economy, zero-contamination technology for packaging, consumer goods.

EPA Supported

Proven technology backed by the U.S. Environmental Protection Agency for safe methane capture.

Global Development Initiative™

International collaborations underway in protected market segments.

Reduced Carbon Footprint

Licensees **qualify** for carbon offsets / credits with zero methane emissions and no waste left behind.

Technology Fortress

All formulations are seamless, providing rapid transition and scalability.

Visionary early adopters can capture the exploding sustainable plastics demand in their market segment!



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About RNG Plastics

What Are RNG Plastics?

Renewable fossil fuel plastics scientifically engineered for renewal into RNG (Renewable Natural Gas) at EPA landfills. RNG is the same feedstock used to make virgin plastic resins.

Why Is the Technology Beneficial?

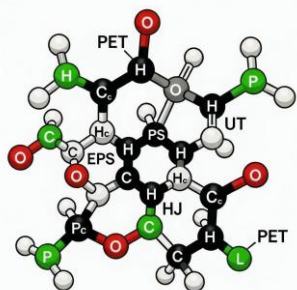
RNG Plastics are the highest sustainability model on Earth. They support verifiable zero-contamination circular models.

What Are its Carbon Footprint Benefits?

The entire supply chain (users, manufacturers, packers, etc.) can claim carbon offsets to meet environmental goals. Project leaders can claim carbon credit income estimated as high as \$200-\$400 per ton (Verra 2026 projections) backed by 30 years of EPA methane capture and RNG conversion records.

How Are they Made?

Manufacturers seamlessly supplement their primary resins with a tiny amount of scientifically engineered **EPS resin**, an **Enhanced Polymeric Structure**.



How Supplemental EPS Resins Work

We invented EPS resins to have no negative effect on a plastic's physical properties, including food preservation and pathogen protection. Only after use and the products (contaminated or damaged) reach a landfill - do the EPS resins activate enabling safe conversion into RNG during the landfill's life.

- **No microplastic**
- **No methane emissions**
- **No plastic pollution**
- **No waste left behind**

How Is RNG Plastic Converted into RNG?

EPA regulated landfills are complex engineered **recovery centers**. Waste, including plastics, sit dormant up to four years in a covered, sealed environment preventing release of greenhouse gas. Giant wells are then drilled creating a warm biodigester environment, which allows built-up CO₂ gas to escape - mostly from organic matter and bioplastic - but **RNG Plastics are dormant**.

The wells are capped, the landfill heats up as high as 130°F, anaerobic digestion begins, and the **EPS resins are activated!** RNG plastics are converted into methane, where an adjacent plant converts it into RNG: The **same feedstock used to make new virgin plastics**.

What Types of Plastics Can Use the Technology?

Our scientists use our proprietary **AI Science Hub** to scientifically validate and precisely formulate EPS resin formulas for RNG Plastic products. Drawing from its library of over 30,000 items, it provides broad compatibility for most fossil fuel plastics.

PE	Films, thermoforms
PET	Containers, films
PP	Films, sheets
PVC	Gloves, food films
NBR	Medical / PPE

They are adaptable for laminates and dissimilar materials, with manufacturing stability up to 550°F. Exclusions are silicones, and biodegradable plastics.

Are they Certified / Regulated?

ASTM certification is available through Aropha, Inc. (ISO 17025 lab), and Intertek, the world's largest LCA certification service. **Regulatory compliance** is monitored thereafter via the proprietary **AI Science Hub**.

What's the Cost?

About 2%-3% more; However, carbon credit income offsets prices below virgin resin costs.

