

Reducing Pollutants with Cleaner Cooking Fuels

How bio-LPG can lead the way

Bio-LPG could transform energy use worldwide

Bio-LPG is a clean-burning, drop-in, renewable fuel that is chemically identical to liquid petroleum gas (LPG), also known as propane, butane, or some combination of the two. Bio-LPG is produced using renewable resources and/or waste with a significantly lower carbon footprint than leading alternatives—emitting nearly 90% fewer carbon emissions than conventional energy and 73% less than conventional LPG.



Bio-LPG emits nearly **90%** fewer carbon emissions than conventional energy

For more than 2.5 billion people around the world, especially in countries where traditional fixed energy infrastructures are fewer and farther between, LPG is an economically efficient cooking energy solution—and converting to bio-LPG will improve public health outcomes, support cleaner air, expand access to affordable clean energy, and raise standards of living in developing nations.

“Cooking breakfast, lunch, and dinner with firewood is equivalent to smoking

3 to 20 packs of cigarettes per day.

It causes **10%** of deaths globally.



That's more than tuberculosis, HIV AIDS, and malaria combined.

And it's only killing women.”

– The World Health Organization



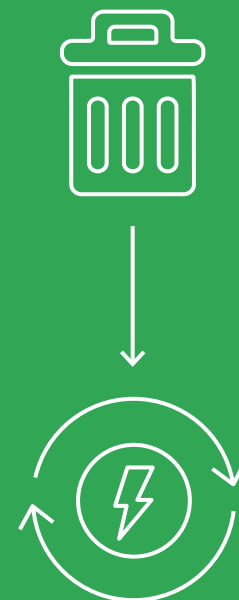
GTI ENERGY

solutions that transform



GTI ENERGY'S COOL LPG IS THE DRIVING FORCE BEHIND THIS TRANSITION

GTI Energy's Cool LPG technology converts biogas sourced from landfills, agricultural facilities (animal waste and food byproducts), wastewater treatment plants, and even potentially municipal solid waste, into renewable liquid fuels for cooking, heating, and transportation. This technology is set to be the **lowest-cost, highest-yield technology** to produce cleaner, bio-LPG, which will help enable a global market for this clean fuel in both developing and developed nations. Advancing actionable research and real-world technologies that support both global decarbonization and expanded access to low-cost, clean energy is core to GTI Energy's mission; bio-LPG embodies this commitment.



*"The Cool LPG technology provides a clean-burning alternative to cooking with wood, charcoal, animal dung, and kerosene—providing a **dramatically improved standard of living**."*

- Kimball Chen, Chairman of The Global LPG Partnership



Photo courtesy of the World LPG Association

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