





*As a renewable energy company, we develop sustainable solutions
that have a positive impact on our environment.*

Our Company

EnerTech Environmental, Inc. is a renewable energy company dedicated to protecting public health and the environment through the development and commercialization of clean energy technologies for the management of biosolids (sewage sludge) and other organic wastes.

Innovative Solutions

At EnerTech, we see proper biosolids management as both an environmental necessity and an energy production opportunity. The company provides solutions to the problems facing traditional biosolids management techniques and simultaneously creates renewable energy – in a way that makes economic sense.


EnerTech's patented SlurryCarb™ process cleanly and economically converts high moisture wastes like biosolids into a renewable fuel, called E-Fuel™, with significant cost savings over alternative options.

The company currently holds multiple U.S. and international patents for a number of clean technologies, including the SlurryCarb™ process. EnerTech's corporate headquarters are located in Atlanta, Georgia.

Contact Us

We welcome your inquiries regarding our company and our technology and are always available through email or over the phone.

Please visit our website, www.enertech.com, and download our company information packet for additional information on how your community can benefit from EnerTech's biosolids management and renewable energy technology.



At EnerTech,
we see proper
biosolids
management
as both an
environmental
necessity and
an energy
production
opportunity.↷



EnerTech's renewable energy technology can be both an economically and environmentally viable solution for your community.

Renewable Energy

Our patented SlurryCarb™ process is an environmentally sound technology for the beneficial reuse of biosolids and other high-moisture feedstocks. The process thermally converts biosolids into a renewable solid fuel that can be used to supplement fossil fuels.

The fuel product, called E-Fuel™, is a clean fuel that, unlike the use of fossil fuels, does not add to the volume of greenhouse gases circulating through our atmosphere.

Solutions for Today—and Tomorrow

In light of increasing regulation and public concern regarding commonly used biosolids management strategies, the need for environmentally and economically sound alternatives to traditional biosolids recycling methods is becoming increasingly evident.

Our method centers around the philosophy that today's solutions must also be viable for tomorrow. Beyond simply managing biosolids,

we focus on recapturing the energy value inherent within biosolids and transforming that energy into a fuel that can supplement fossil fuels.

The SlurryCarb™ process not only recycles biosolids, but the final energy content of the resulting fuel is greater than the energy required to treat the biosolids – rendering the process a net energy producer.

Economic Sustainability

EnerTech provides solutions for biosolids recycling that do not sacrifice economic viability for environmental sustainability. In an era of growing uncertainty, we give you the option of predictable pricing for the long-term. This helps your community avoid the risks of increasing biosolids management costs.

The need for economically and environmentally sound alternatives to traditional biosolids recycling methods is becoming increasingly evident. 》



The E-Fuel™ produced by a single SlurryCarb™ facility can prevent 50,000 tons of CO₂ from being released into the atmosphere in a year.

SlurryCarb™ Process

As an environmentally sound biosolids management solution, the SlurryCarb™ process is an extremely adaptive system that can manage all of your community's biosolids or compliment existing or planned strategies.

SlurryCarb™ facilities can be integrated with Wastewater Treatment Plants, potentially reducing both capital and operating costs.

How it Works

Biosolids are pressurized to maintain a liquid state throughout processing and heated to reaction temperature. Upon reaching the desired reaction pressure and temperature, the biosolids break down into carbon and light gases, resulting in a condensed slurry with molecules that are much smaller and very high in energy.

Excess moisture is then extracted from the slurry, producing a fuel with a very high heating value. This renewable fuel, called E-Fuel™, is an alternative to fossil fuels. It is suitable for

co-firing, gasification, use in cement kilns or industrial and utility boilers.

What it Works On

The SlurryCarb™ process can treat a variety of wastes to create a quality fuel product. These wastes include:

- Biosolids
- Pulp and Paper Wastes and Sludges
- Animal Manure and Feeding Operation Wastes
- Agricultural Wastes and Residuals
- Lumber and Industry Wastes

Our process development unit in Atlanta, Georgia is constantly testing our process on new wastes from a myriad of industries.





E-Fuel™ is certified by the California Energy Commission as eligible for California's Renewable Portfolio Standard.



SlurryCarb™ Advantage

The SlurryCarb™ process efficiently handles biosolids with a range of compositions and moisture contents. The versatility of the process allows us to capture the maximum energy content of biosolids during the production of E-Fuel™.

The SlurryCarb™ Promise

By offering an affordable, complete biosolids recycling solution, SlurryCarb™ can provide the following advantages:

- Produces renewable energy from biosolids
- Achieves complete recycling and beneficial reuse of biosolids
- Generates more energy through the production of E-Fuel™ than the process consumes
- Consumes less energy than traditional biosolids drying solutions
- Creates diversity in your community's biosolids management strategy
- Provides long-term stability to your community's biosolids management costs
- Presents a sustainable and environmentally friendly solution that can assist your community in reducing its use of fossil fuels
- Ensures collaboration with a company committed to protecting the public health and the well-being of your community



1 ton of E-Fuel™ can produce approximately 1 MWh of clean, renewable electricity for your community.

Renewable E-Fuel™

The end product of the SlurryCarb™ process, the renewable E-Fuel™, provides an ideal solution to biosolids recycling and beneficial reuse. As a renewable energy source, using E-Fuel™ provides the environmental benefit of generating clean, renewable energy and creates an opportunity to reduce fossil fuel usage.

The Future of Energy

E-Fuel™ shares many chemical and heat content characteristics with typical western brown coals and lignites, and is considered an ideal coal substitute. Heating values are similar to that of pulverized coal or distillate fuel, but unlike typical coals, the renewable nature of E-Fuel™ ensures an endless supply of energy.


E-Fuel™ is suitable for gasification, co-firing, use in cement kilns, or utilization in industrial and utility boilers, often with no modifications necessary to existing combustion systems. The versatile nature of E-Fuel™ allows buyers

to substitute all or only a portion of their fuel supply.

Environmentally Sustainable

E-Fuel™ is made from common organic wastes. Because this organic waste is readily renewable and comprised of carbon already circulating through the environment, combusting E-Fuel™ produces essentially zero net greenhouse gas emissions. Using it in place of fossil fuels contributes to the reduction of fossil-based carbon dioxide in the earth's atmosphere.

Any ash resulting from the combustion of E-Fuel™ is non-hazardous and can be easily recycled in industrial sectors like the cement industry, resulting in a complete biosolids recycling solution.



E-Fuel™ provides the environmental benefit of generating clean, renewable energy and creating an opportunity to reduce fossil fuel use.›



Replacing fossil fuels with a renewable fuel lowers net greenhouse gas emissions and helps protect the environment.

Economic Benefits

With mounting world-wide concern about the environment and increasingly strict biosolids management regulations on national and international levels, EnerTech offers solutions to difficult biosolids management and energy challenges while also being aware of the bottom line.

Economic Energy Solutions

Unlike other technologies that generate renewable energy sources, the capital costs of the SlurryCarb™ process are competitive with current methods. Additionally, unlike fossil fuels, the cost of E-Fuel™ is not subject to market instability.

Solutions Without Compromise

It's a philosophy that forms the foundation of EnerTech Environmental, a belief that problems should be solved with solutions that save your community money and resources. The unique nature of our approach lies in science and sustainability. The SlurryCarb™

process is designed to remove harmful pollutants and to create a streamlined, sustainable process that is significantly simpler to control than current, comparable biosolids management methods such as thermal drying. The result is a substantial reduction in long-term operating and capital costs that is transferred directly to our customers.

What The Industry Is Saying

"EnerTech's Slurry Carbonization is the key to turning [waste] into a high energy fuel."

CHEMICAL ENGINEERING MAGAZINE

"A cost effective solution to a key environmentally-related problem."

NATIONAL INSTITUTE OF
STANDARDS & TECHNOLOGY

Named to *The Green 50* as one of fifty innovative companies dedicated to sustainable business.

INC. MAGAZINE



Investing in technologies that protect your environment ensures that your community has a clean future for generations to come.

Environmental Benefits

When left in balance, the greenhouse effect is beneficial to our planet because it retains heat within our atmosphere, keeping temperatures warm enough to sustain life. However, recent build-up of greenhouse gases, caused in part by the burning of fossil fuels for energy, is throwing off nature's delicate balance.

Greenhouse Gas Reduction

By producing a renewable fuel, EnerTech's SlurryCarb™ process creates the opportunity to reduce fossil fuel use and lower net greenhouse gas emissions. Using E-Fuel™ in place of coal reduces the amount of fossil-based carbon dioxide that is released into the atmosphere and helps restore the harmony of the Earth's natural greenhouse effect.

Clean Energy for a Clean Planet

For every ton of coal that is burned, three tons of additional carbon dioxide are released into the atmosphere. One ton of E-Fuel™ replaces, on average, around half a ton of coal. That

means a SlurryCarb™ facility that produces 100 tons per day of E-Fuel™ can displace around 150 tons per day of fossil-based carbon dioxide, and prevent it from being added into the atmosphere.

Our Commitment

EnerTech answers today's global waste and energy issues with the environmental technologies of tomorrow.

Our mission is to protect public health and the environment by developing clean energy technologies for the management of biosolids. We are committed to working with communities to provide solutions that meet their individual needs.

Please visit our website, www.enertech.com, for more information about our company and our technology.

Our promise
is to provide the
most beneficial
biosolids
management
solution possible
while meeting
the needs of
individual
communities.☺



EnerTech Environmental, Inc.

675 Seminole Avenue, Suite 207
Atlanta, Georgia 30307

Phone: (404) 355-3390

Fax: (404) 355-3292

Email: slurrycarb@enertech.com

Website: www.enertech.com

