



Innovative Solutions to

The Human Waste Dilemma

We have a problem with biosolids:

We produce too much of it and have no place to put it.

This is the human waste dilemma. Every year, the U.S. alone produces seven million dry tons of biosolids (treated sludge) – with limited options for safe, sustainable disposal.

Current methods of disposal can be environmentally harmful and are increasingly regulated and restricted. This applies to landfills, land applications, incineration, and even composting.



Unsafe disposal of biosolids can contaminate our clean water supply.

This is a problem for municipalities, businesses, people, and the planet.

The Aries Solution:

‘Disrupt the Flush’

(clean conversion of human waste)

Or more accurately, we are disrupting the process that occurs *after* you flush, when wastewater is converted into biosolids at wastewater treatment plants, with limited options for disposal.

10 years of product development
& operational experience

Two full-scale
operational facilities

Environmentally friendly,
sustainable biosolids conversion

Aries Gasification

*The Clean Alternative
to Traditional Waste Disposal*

Aries designs, develops, builds and operates proprietary bio-based gasification systems that provide environmentally friendly, sustainable solutions for biosolids conversion, biomass residue disposal, carbon emission reduction, and production of clean thermal/electrical energy and beneficial *Bio-Fly-Ash™* or biochar.

- Reduces biosolid volume by up to 95%
- Destroys harmful chemicals, including PFAS
- Carbon neutral to negative
- Creates clean energy from biosolids
- Produces beneficial Bio-Fly-Ash™ as a byproduct
- Significantly reduces trucking (emissions and cost)
- Cost-competitive with stable, predictable pricing



Aries facilities are industrial-grade and proven through thousands of hours of commercial use.

*Our scalable systems are custom-designed and built to accommodate each customer's specific needs.
And we offer full management services, enabling continuous operation and maintenance on an ongoing basis.*



Clean Conversion of Biosolids and Biomass

We leverage two central patented technologies, with eight U.S. patents issued to date:

- Our Fluidized Bed Gasifier reduces biosolid volume by up to 95% while producing syngas and Bio-Fly-Ash™.
- Our Downdraft Gasifier, designed for wood waste and alternative feedstock, reduces biomass volume by up to 90% while producing syngas and high-value biochar.

There is no burning or incineration involved in our gasification systems. The high-temperature process is thermo-chemical in nature, with a consistent output of only two compounds –synthetic fuel gas, or producer gas, and high-carbon biochar or beneficial Bio-Fly-Ash™.

Sustainability Benefits

- Achieving zero landfill and/or land application goals for industry and municipalities.
- Reducing carbon footprints. New green energy production measurably offsets former use of fossil fuels. A considerable reduction in trucking operations also contributes to reducing CO2 by thousands of tons per year. These carbon and greenhouse gas reductions are calculated using EPA standards.