



# *Purify Solutions*

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Purify Power.Inc & IE2Group.LLC.



## Waste-to-Energy Power Plants

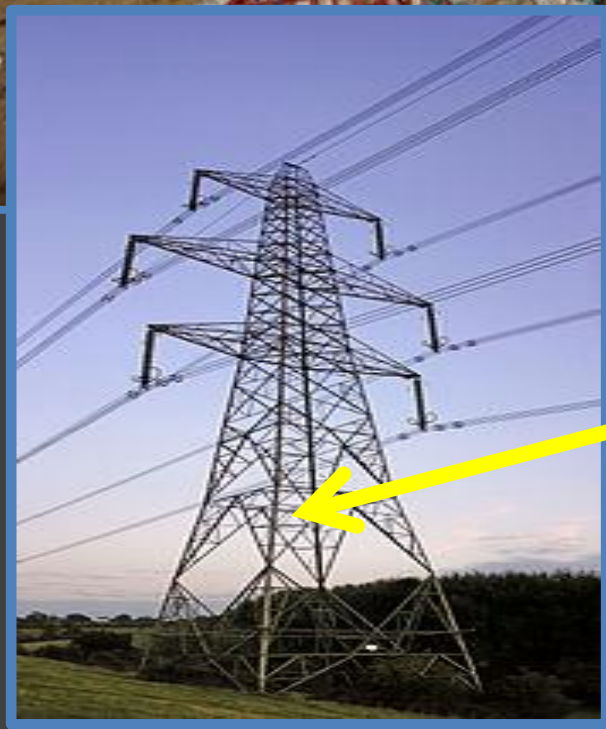
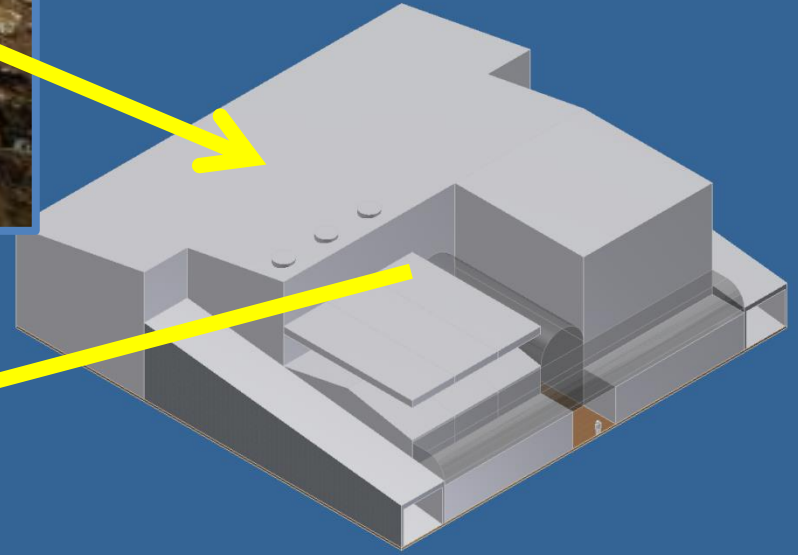


Are you still doing this??

# Waste to Energy



*Purify Power Gasification Plant*



**Put it on the Grid...not in the ground!**

# **BLUF** Bottom Line Up Front ...


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## **We Provide:**

- **New Industry, new jobs (min. 200+)**
- **All technology (100% MSW repurposing)**
- **100% Capital (\$600-800 million USD)**
- **20 – year stabilized waste disposal costs**
- **US EPA compliance (dramatic carbon footprint reductions)**
- **20 - year stabilized pricing: electrical power, heating, and synthetic fuels (unleaded gasoline, diesel and Jet-A)**

## **You Provide:**

- **20-year contract for MSW disposal (min. 2500 tons/day)**
- **Stabilized MSW tip fees (20 years)**
- **8-10 acres land lease (fair market lease value)**



Purify Power turns waste into  
**valuable materials.**

Put waste in, get nothing but  
profitable commodities out.

# Landfill Waste is a Poison to the Earth

Waste in landfills inevitably leaks contaminating the ground water and off-gasses releasing methane. These leaks are **poisonous to humans**, contributing to cancer, **as well as the planet**, contributing to global warming. Incinerators are not much better.



In fact, methane from the world's landfills produce just greenhouse gases as does all of the cars in the US.

# What does this technology mean?

- **This is the industry of our future! No more pollution!**
- Eliminates all waste from ground/land fill disposal
- Converts all waste into useful products (power, clean water, energy, fertilizer, syn-diesel, activated carbon, etc.
- Creates new, high technology jobs for local governments.
- Generates solid economic opportunities to leverage private investment).
- **More people = more waste = more opportunity for this industry!!**

# What 's in it for my organization?


## **Municipal Government (city, county or region).**

- Eliminates all waste from ground/land fill disposal
- Stabilizes power rates and waste disposal costs for 20 years.
- No increase in cost for waste disposal
- Creates new, high technology jobs public & private.
- Dramatically reduces air, soil and ground water contamination potential
- **We repurpose waste and put it on the 'grid' not in the ground!**

# Purify Power converts waste into useful products

- Low-cost Electricity
- Heating for buildings and roadways/bridging
- Pipeline quality Methane
- Propane Gas
- Fertilizers
- Unleaded Gasoline
- Synthetic Diesel (B100 no sulphur)
- Aviation Fuel (Jet-A)





Purify Power is a near-zero-  
emissions waste-to-power  
solution.

Nothing left to landfill.

No emissions to come out of a stack.

**Everything** is 100% recycled.

# Purify Power minimizes the environmental impact of handling waste.

	Airborne Emissions	Landfilled Waste
<b>Purify Power</b>	<b>Near Zero Emissions</b>	<b>Nothing is Landfilled</b>
Incinerator	Combustion Emissions	Ash (10%) is Landfilled
Landfill	Offgassing	100% is Landfilled

# Purify Power benefits the community.

## Economy

- Immediately **creates new permanent jobs**, initially for construction and then for operations.

## Environment

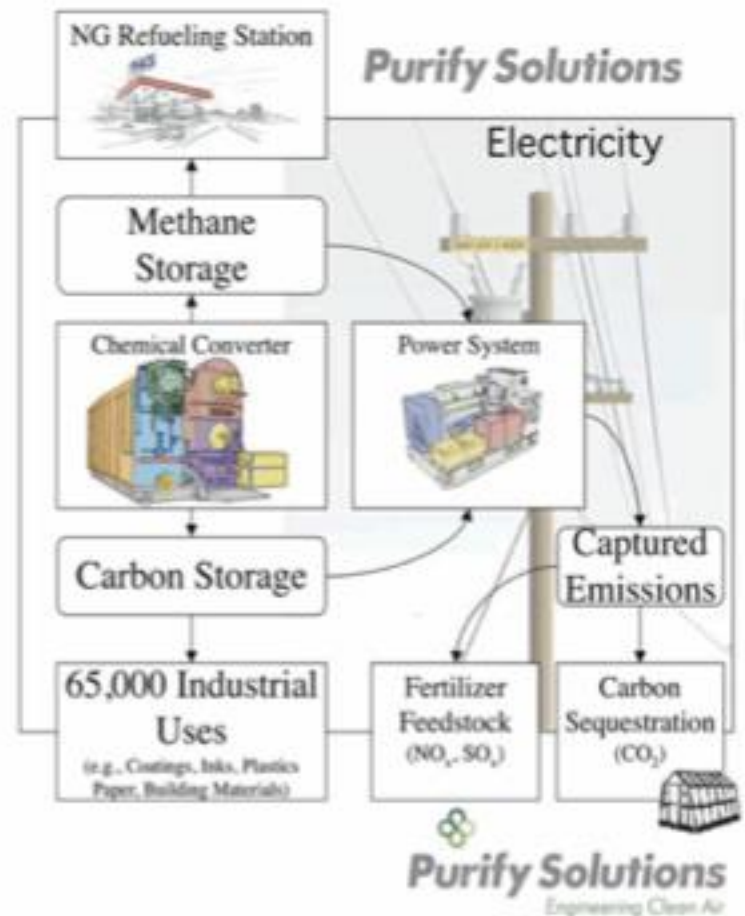
- **Eliminates airborne emissions or ground seepage** caused by incinerators and land fills.
- Eliminates need for future land fills.
- Allow reclamation of previous land fills.

# Purify's Solution

## Sustainable with Zero-Waste ✓



No Landfill ✓ Consumes Waste Creates Power ✓ Clean Useful Resources ✓



# Proven Pilot Plant

- Full-Scale Pilot Plant
- Located in Charlotte, North Carolina
- Operational since 2007
- Proven performance with a wide range of fuels



# Recently Commissioned Plants

**1200 tons/day Tires-to-Methane Plant**  
*in Franklin, Georgia*

**Automotive Shredder Residue to Methane Plants**  
**250 tons/day**  
*in Franklin and Adel, Georgia*

# Current due diligence ...

- **Washington, DC ( \$600mm-1.200 B); 2800 tn/dy, 1.2GW power) Nations Capitol, Approximately 1,000 new jobs.**
- **Jamestown, VA: (\$2.5 B) 25,000 tons per day; 1.2 mm gallons synthetic fuel per day and 500 MW electrical power (3,000 new jobs) (Newport News, VA fabrication jobs included.**
- **Cleveland, VA (2.0 B) 25,000 tons per day; 1.2 mm gallons synthetic fuel per day and 500 MW electrical power (1800 new jobs).**

# Next Up Analysis ...

- **Camp Pendleton, CA (San Diego) Net Zero**
- **Alexandria, LA (Choctaw Nation)**
- **Accra, Ghana (West Africa)**
- **United Nations, Pacific Gyre**
- **Multiple sites in Florida, Texas, Maryland, Iowa, Indiana.**



# Summary ...

- **We provide** an onsite **approved** method of municipal waste disposal
- **We provide** a solution covered by multiple patented processes
- **We do not require ‘new budget funding’**, we use what is already in your budget (tip fees and power purchase agreements) we bring the investment capital!
- **You provide** – land (8-10 acres) + municipal waste + tipping fees (as budgeted for land fill)
- **We guarantee**: no more land fill, competitive power purchase agreements, reduced pollution and 20-years of stable power and waste disposal.

## ***Contact information.***

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