

REFORM EARTH



TECHNOLOGIES

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A SCIENTIFIC FACT - carbon based material can be broken down into a high quality syngas and carbon without generating harmful gasses and by-products

Devolatization - Patented Process and Materials

- Releases NO harmful gasses or wastes
- The carbon-based feedstock is subjected to extreme heat in a closed loop system
- The waste is broken down at the molecular level

Outputs

- Syngas – Used to run high efficiency Gas Turbines or Gas Generators for electrical output
- Carbon – Used to support the local or national economy in many forms

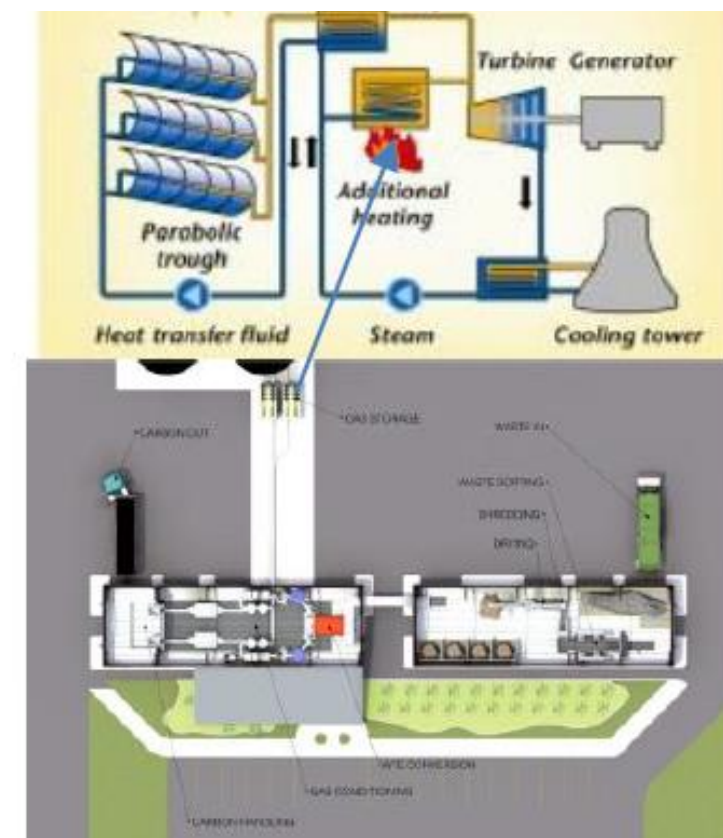


REFORM EARTH TECHNOLOGIES

Bethel Energy, LLC Thermal Solar Hybrid Systems

15MW to 50MW

100% Renewable Energy



More Power ↔ Lower Cost

24 / 7 / 365 Reliability



RET / Bethel

INTEGRATED ENERGY SOLUTIONS

- 24/7 Power Reliability
- Closed loop, zero toxic or hazardous emissions
- Self-sustaining <10% Parasitic Load
- Flexible Steam Power Generation
- Works With or Without the Sun
- Modular expansion capability
- Organic Waste Disposal can eliminate landfill

Devolatization

A process similar to, but not traditional gasification, as applied in the RET reactor atmosphere, squeezes out every possible nugget of energy from organic carbon feedstocks and converts it into more valuable and easily usable forms. The RET system does this in a tightly controlled environment under extreme heat within a continuous, closed-loop system. In the reactor organic carbon molecules are, reduced, rearranged, and reformed into high quality, synthetic gas (syngas). High quality Syngas, generated under conditions controlled is optimized for the specific end use. Potential end uses are electrical power generation, commercial or industrial heating and as feedstock in liquid fuels manufacturing.

Non--Toxic / Non-Hazardous

The system produces no toxic or hazardous emissions of any kind due to the patented devolatization process. Additionally each RET system is self-sustaining, with a parasitic load between 8% and 15% of the converted energy produced, which is used to power the entire system. RET's reactor array operates at or near atmospheric pressure minimizing operating costs and safety concerns.

Process Integration

The RET process, built around a series of interdependent processes that allow for the thermal conversion of organic and synthetic feedstock's into solid and gaseous products is a revolutionary innovation. The product outputs collectively have a significantly higher value than could be realized by other disposal systems or technologies. The RET System employs a state-of-the-science thermal conversion of organic carbon materials in an oxygen starved reactor environment.

Patented & Proprietary

RET's proprietary and innovative technology integrates two separate proven technologies:

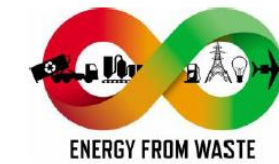
- 1] **Pyrolysis** (devolatization in an inert atmosphere) and
- 2] **Thermo-catalytic Molecular**

Depolymerization RET's engineers have applied 21st century knowledge in material science, electronic engineering, chemical engineering, and fluid dynamics to the problem of achieving an output with the maximum possible value from waste feedstocks, such as MSW and other renewable sources and incorporating these benefits within an engineered system with minimum negative environmental impact.

Syngas generated in the RET reactor, serves as the fuel required for the thermal conversion of the feedstock, as well as the exportable energy stream for the generation of downstream output products (electric power, liquid fuels)

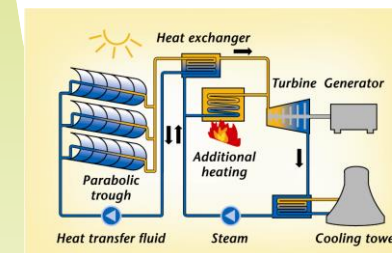
Biochar, a high-energy content, solid, semi-activated carbon is also a by-product. It has wide application as a soil amendment, solid fuel, fillers for rubber & plastic products and as colorant in dyes and paints.

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TECHNOLOGIES

100% Renewable Energy Integrated Thermal Solar Hybrid Technology



Thermal Solar Hybrid
50MW (capacity)
Kilowatt Hours Per Day
1,200,000 VS 252,000

Capturing the "free" power of Solar Energy beating down on our planet every day is the very definition of renewable. Now you can take advantage of that renewable source without the challenge of adjusting for those inevitable periods when the sun doesn't shine.

Finally, reliable, high quality, green, renewable, electrical power 24/7, every day of the year.

PV solar is great, except that even on the best days, it only generates truly usable energy for ~5 Hours / day (for thermal solar ~10 hours / day) . That means that as much as 80% of the time, your high value capital expenditure is essentially a non-producing asset.



5 Times the Power...
Footprint – 62% Smaller
150 VS 400 (acres)

No matter what land costs where you plan to put your solar generating facility, the smaller the plant footprint the less it will cost you and the easier it will be to site and permit. Our guess is that the smaller it is the closer you can put it to the customers and the closer to the customers the lower the transmission infrastructure costs and greater the amount of power that can be delivered to those users...all that and not even considering the availability of the land itself.



Virtually Any Organic Carbon-based Materials Works as Feedstock

- Automotive Shredder Residue
- Municipal Solid Waste
- Tire Derived Fuel
- Animal Manures – Rendering plant remains
- Hulls from Nuts - All Types
- Coconut Shells
- Vegetable Seeds (Corn, Rice, etc.)
- Wood Residues (Saw Dust, Bark, etc.)
- Compost
- Papers - All Types
- Plastics
- Spent Activated Carbon (Reclaimed)
- Shredded Carpet
- Treated Wood Waste
- Packing Wastes
- Yard Waste - All Types
- Demolition Debris
- Roofing Materials
- Resins
- Contaminated Soils
- Spent Foundry Sand (Reclaimed)
- Spent Adsorbents
- Sewage Grit
- Crop Residues - All Types

PLUS

10,000 to 33,000 Gallons Per Day
Green- Renewable-Carbon Neutral Liquid Fuel

Be Sure To Ask About This Added Bonus

RET and Bethel Energy, LLC Join Technologies
GREEN, RENEWABLE POWER
Sustainable, Reliable, 24/7