

# Energy-Inc<sup>®</sup>

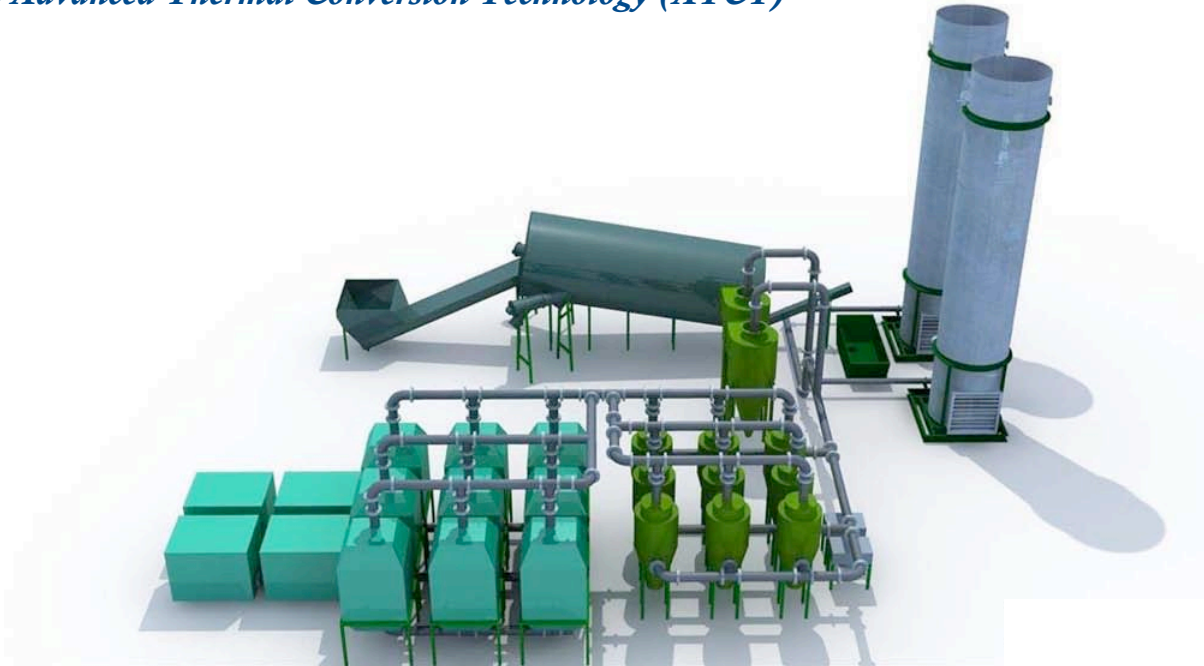


## Advancing the application of innovative technologies

Primarily an energy infrastructure development company, Energy-Inc designs, constructs, and manages Advanced Thermal Conversion Technology (ATCT) plants. The Company focuses on renewable energy and waste management solutions - that in effect, allows for energy security to be achievable and fossil fuel independence a future reality.

Energy-Inc also offers highly specialized consulting services for complete waste and energy solutions that will enhance strengths as well as mitigate vulnerabilities in the energy plan set forth by communities and businesses.

## 500 Ton Advanced Thermal Conversion Technology (ATCT)



### Access to on-site renewable energy

In today's economic, political and more importantly environmental landscape, the urgency to implement sensible solutions with scientific merit is unprecedented; ATCT or waste-to-energy solves not just a singular pressing concern, it is expected to be able to significantly contribute to the stabilization of all three sectors.

Energy-Inc is the first to offer ATCT systems in the U.S. on a commercial scale; ranging from 12 -7,000 tons of capacity processing a day. Energy-Inc's innovative technology is unique and more commercially viable compared to the competition because the technology is more economical and efficient than any other comparable system available in the market. Furthermore, with no incineration, Energy-Inc differentiates itself from many companies claiming to use "waste to energy" technology.

Building waste-to-energy plants in partnership with utility companies, governments around the world, and the private sector will pave the way for local access to clean and affordable energy. With waste serving as the fuel to run the plant, the earth's biodiversity and natural resources will be preserved. All of which is accomplished through a systematic process that results in nominal emissions and requires **no incineration**.

### OPPORTUNITIES

#### **Demand for Energy Security**

Modern society runs on energy. To have a power supply be steadily and readily available on-site at reasonable costs appeals to every smart enterprise - as it demonstrates independence and innovative solutions at work. Furthermore, because it is clean energy derived from waste its supply is reliable and abundant, unlike coal and oil which are finite natural resources.

#### **Energy Efficiency = Economic Sustainability**

"According to a study conducted by the Lawrence Livermore National Laboratory, more than 60 percent of all consumed fossil primary energy are dissipated unused as heat energy." Improvements in design performance are rapidly gaining momentum; this commitment is evident in the current Administration's plan to provide ample incentives and guarantees to those companies that help industries move ahead.

## Finite Resources & Global Interest

Depleting fossil fuels, coal, oil and natural gas is certain at our current growth and consumption rate. It is important to note that these fuels are all non-renewable energy resources; as a result, a global push has culminated to fund and develop renewable or alternative energy resources. Energy-Inc is responding and aptly poised with its technology to provide worldwide solutions.



*“All the easy oil and gas in the world has pretty much been found. Now comes the harder work in finding and producing oil from more challenging environments and work areas.”*

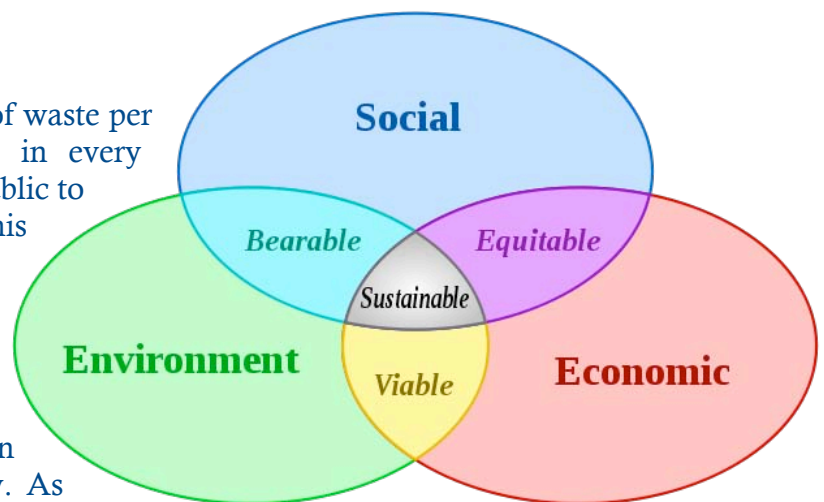
*William J. Cummings, Exxon-Mobil company spokesman  
December 2005*

*“World reserves are confused and in fact inflated. Many of the so-called reserves are in fact resources. They're not delineated, they're not accessible, they're not available for production”*

*Sadad I. Al Hussein, former VP of Aramco, presentation to the Oil and Money conference, October 2007*

## Waste Is Opportunity

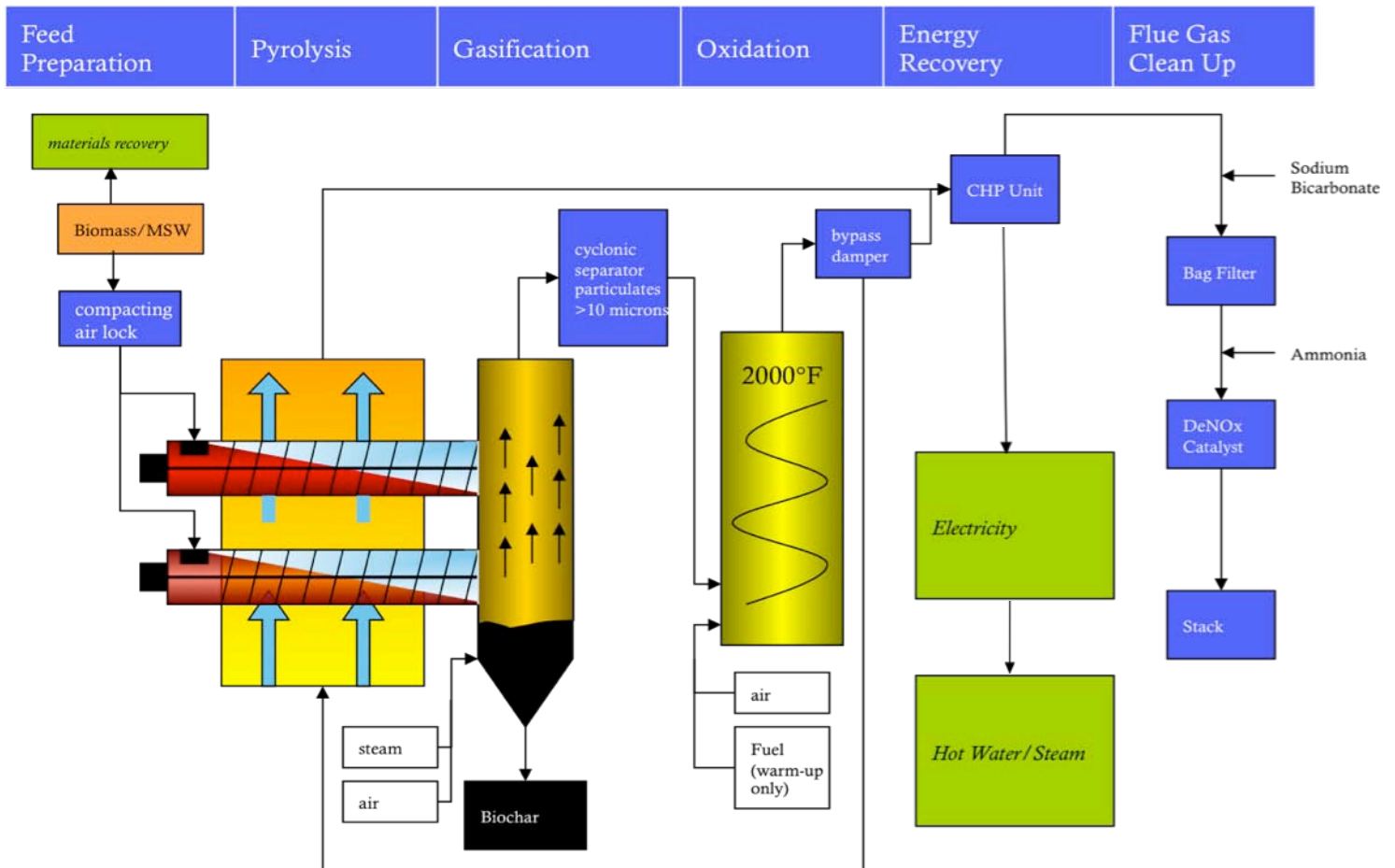
The average American produces 4.5lb of waste per day; this consistent output for trash in every process calls for any entity private or public to responsibly dispose of this waste. This usually involves various expenditures and investments by the responsible party to ensure that this is managed in full compliance with environmental policies and enforced limitations. As it stands, managing waste is not only an economic challenge but also a liability. As stricter guidelines and regulations are implemented along with the call for higher environmental stewardship the costs of doing business “as usual” will be a greater financial burden. Installing ATCT will mitigate various issues as well as effectively control costs.



*“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”*

*Brundtland Commission, United Nations*

## Processes System



As the only commercially viable alternative to waste incineration, Advanced Thermal Conversion Technology (ATCT) employs *pyrolysis* which super heats and thermally degrades carbon-based materials such as biomass and all other forms of waste (except nuclear) in the absence of oxygen producing synthetic gas or **syngas**. *Gasification* is also a component used to extract energy, a more efficient and reliable method than mass burning - producing higher yields of energy under ultra low emissions. Excess heat is generated through these processes; which is recaptured and further reutilized or repurposed in the form of hot water and steam, which can be harnessed and used for various applications. In other words, this systematic approach and enhanced cutting-edge technology is highly flexible; in that, it is capable of polygeneration – the production of electricity, steam, hot water, and biofuels. Additionally, the ATCT systems approach produces economically favorable by-products, the majority of which is *biochar*, a nitrogen rich organic fertilizer with a market value of \$100-350 per ton.

*1 ton of garbage (MSW) = 1 or more barrels of crude oil*



Energy-Inc's ATCT conversion technology has the unique ability to accept a wide range of feedstocks making it the state of the art in the waste to energy field. The ability to process all waste, with the exception of nuclear, allows Energy-Inc clients to drastically decrease the amount of material put in a landfill. Zero Btu value material such as metal, glass and concrete are recycled.

This flexibility in feedstock and the scalability of the units allows Energy-Inc's ATCT technology to be applied to a wide range of industries such as Agricultural, Military, Municipalities, Large Corporations, Sewage Treatment and Medical Facilities.

## Energy Output

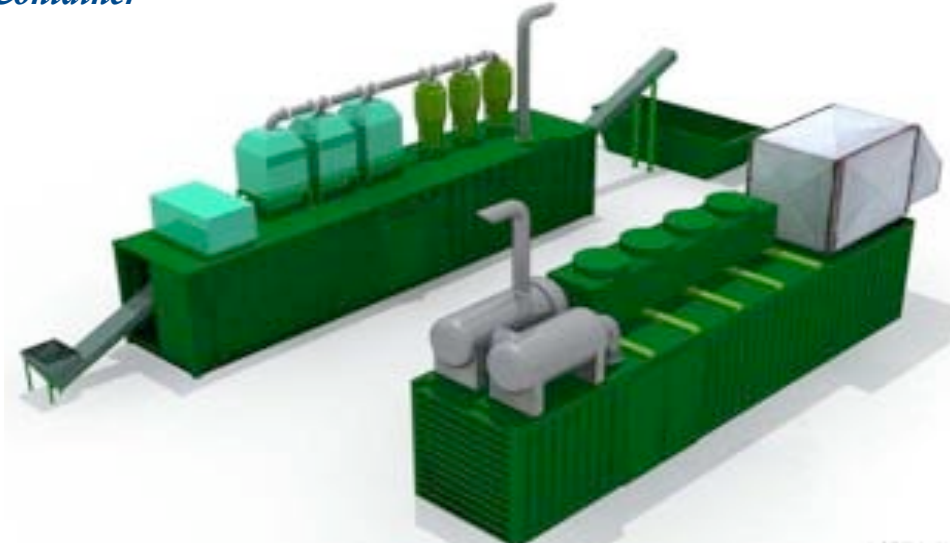
500 tons of waste per day

- 22,000 KWh of electricity or the equivalent of 22,000 homes per hour
- 1,100,000 MMbtu of thermal energy per year
- or
- 1,885,000 MMbtu of syngas per year
- and
- 9,125 tons of biochar annually

## FEEDSTOCK

- Municipal Solid Waste (MSW)
- Cooking Oils and Grease
- Paper
- Cardboard
- Wood
- Plastic
- Rubber/Tires
- Medical Waste
- Bio-Hazardous Waste
- Sewage and Sludge
- Agricultural Waste
  - Plant Stock
  - Manure
- Industrial and Hazardous Chemical Waste

## 12 Ton Shipping Container



A 12-ton ATCT and Combined Heat and Power (CHP) unit(s) fits inside of a standard ISO 40 ft. shipping container --- a very small footprint not much larger than a trash compactor outside of an office building.



*“ATCT is tomorrow’s technology, today; converting liabilities into assets”*

*-- Kim Kirkendall, President & CEO*

### Customer Benefits

- Positive Business Case – savings and revenue
- Energy-Inc - risks associated with project development such as: construction costs, permitting, operating costs, etc. are assumed entirely by Energy-Inc.
- Reduce dependency on foreign oil and other fossil fuels
- Reduce and stabilize energy expense
- Reduce and stabilize waste expense
  - Working towards zero landfill
  - Reduce carbon footprint and emissions

### Financing

Energy-Inc offers up to 100% financing. Landfill and utility costs offset the expenditure for the system. Capital projects are typically paid for in 3-5 years with a return on investment of 20-40%.

#### Options:

- Build, Own, and Operate (Lease)
- Build, Own, Operate, and Transfer
- Joint Venture – Shared Costs
- Capital Investment – Energy-Inc is the project developer
- 24/7 monitoring

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