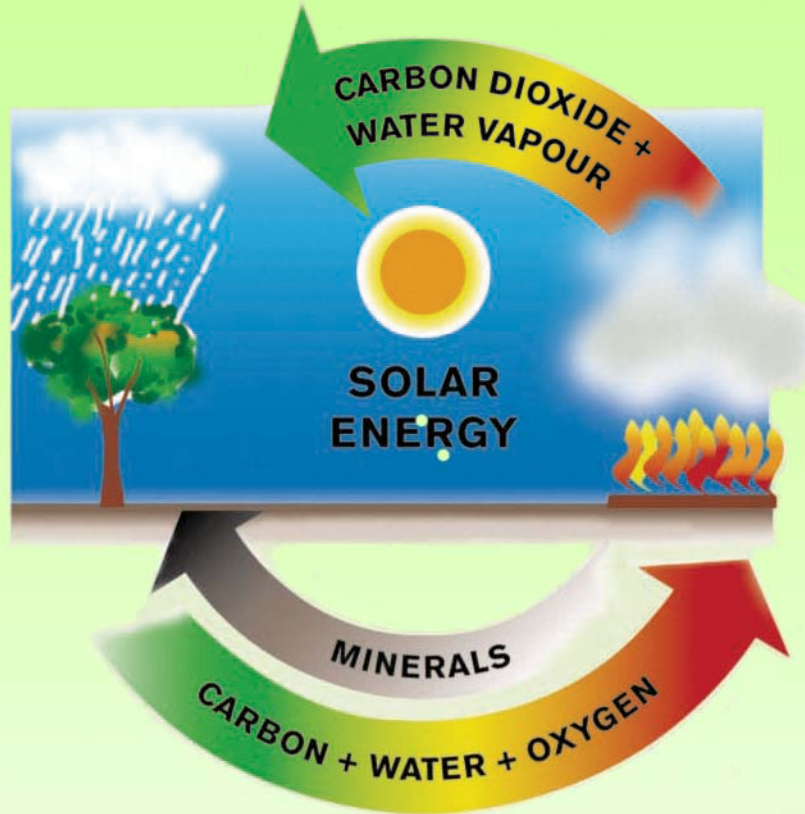


Zero Waste Energy Systems



Energy from Biomass

Zero Waste Energy Systems provides our customers with a wide variety of profitable environmental solutions for waste to energy production. Continuing improvements to the collection and sorting of “clean” biomass is creating an ever increasing source of useable energy. Significant advancements in biomass technologies allow users to select the most cost effective solution to resolve practically any waste reduction challenge. “Energy from Biomass”, is the result of deploying these technologies into customer specific applications.

A multi product strategy utilizing leading technology for waste to energy

SIEMENS

Waste to Energy



Compacted Waste Product



Waste Compaction and Liquid Extraction

Reducing the contained liquid by up to 98% and up to 60:1 compaction ratio, this equipment offers complete product destruction and reduced land fill volumes!



Wet Biomass Waste Converter

With HRT times of 4 to 5 days, these anaerobic digesters deliver over 70% pure methane and virtually 100 % pathogen kill!



Wet biomass waste to Energy

Bio Oil

Five times more cost effective to transport over hog fuel, this equipment is portable and can be transported to the biomass site!

Technologies

Leading edge alternative energy solutions
energy production.

and ZWES

to Energy



Hazardous waste to Energy

Hazardous Waste Destruction

Plasma Gasification is the "last Mile" solution for highly contaminated or non-recyclable high BTU value materials!



Dry biomass waste to Energy

Engineered Fuels

From 5000 to 9000 BTU's/lb., these fuels have a fixed moisture content and a constant physical shape!



Ash Recovery

Residual ash can be blended with other recycled materials and bonded together forming new non-leaching products!

Our Mission

...is to become the world's leading supplier of engineered fuels, conversion systems and encapsulation technology to energy users, creating the most cost effective, repeatable and sustainable zero waste renewable energy processes.



Land Fill Gas Recovery

Harnessing from existing closed land fills, biogas can be used for heat and power generation!

ZWES has teamed up with Siemens Building Technologies, Energy and Environmental Solutions Division to:

1. Manufacture high quality fuel, and the equipment to convert it into power and thermal energy from many abundant waste streams including industrial waste.
2. Manufacture and distribute technology to produce valuable biogas, power and thermal energy from food wastes using a proprietary modular anaerobic digestion technology, plasma gasification, Pyrolysis and encapsulate the residual ash.
3. Manufacture de-liquefying technology for fuel preparation and landfill volume reduction.

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