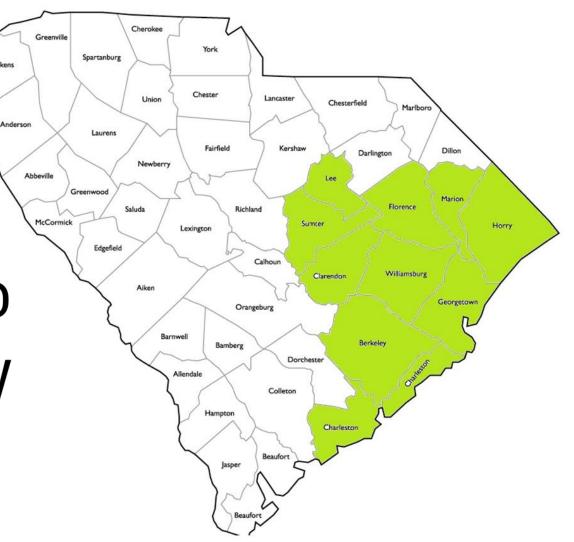
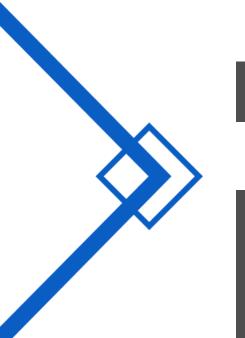


Creating a Sustainable

Future: The CETS Regional Waste to Renewable Energy Utilities Project







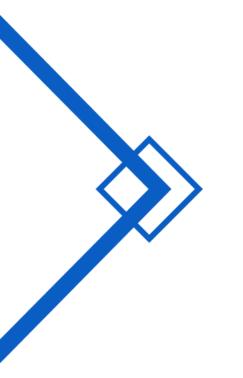
OUR MISSION

To provide the region with leading Waste-to-Energy solutions, supporting a sustainable future for South Carolina





MEETING OBJECTIVE





To Present an Overview of the CETS Waste-to-Energy Regional Project and Invite Your Participation



CETS's EXPERTISE:

SYSTEMS INTEGRATION, INDUSTRIAL DESIGN, IT, **WASTE & RENEWABLE ENERGY**







OUR TEAM: OVER 100 **COMBINED YEARS AND OVER 20 PROJECTS FOR** 100 CLIENTS













CETS IS AN INNOVATIVE RENEWABLE ENERGY & WASTE RECYCLING US COMPANY

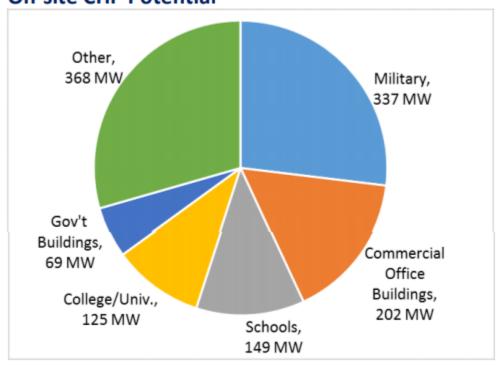
The Township of Lane has Contracted with CETS for a 25-year Net-Zero-Waste to **Energy Project**



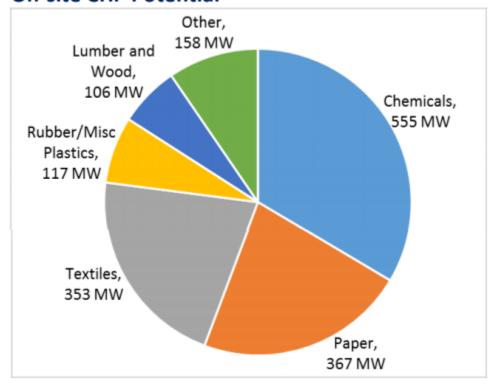


SOUTH CAROLINA'S GROWING WASTE PROBLEM

Top Commercial Business Types with On-site CHP Potential



Top Industrial Types with On-site CHP Potential







CETS CAN HELP THE REGION MEET IT'S WASTE PROBLEM NOW—AND FOR THE FUTURE

Landfills Closing: The state of South Carolina is closing landfills.

A Growing Waste Problem: South Carolina is losing the capacity for waste containment.

Decarbonizing State Goal: To reduce carbon emissions from waste disposal by forty-percent (40%).

Township of Lane Leadership: Intends to recycle nineteen metric tons of waste (19 MT) daily.

Enterprise Waste Increasing: We assist large companies waste and carbon emissions challenges.





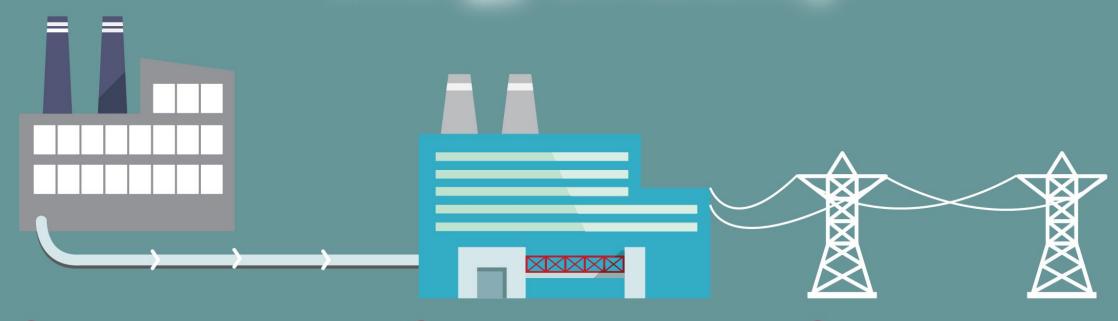
CETS SCOPE OF WORK

CETS Provides All Project Planning, Design, Financing, Construction & Management



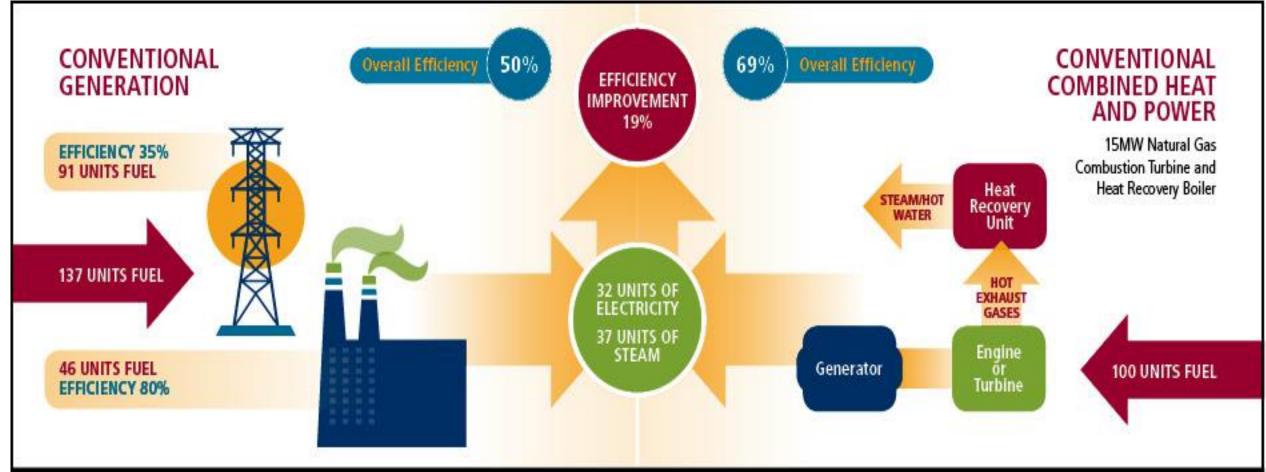






- 1 Extra heat and steam from a refinery are moved to a cogeneration facility.
- 2 At a cogeneration facility, heat and steam are used to create more electricity.
- 3 That electricity is used to power nearby facilities and is provided to the electric grid.



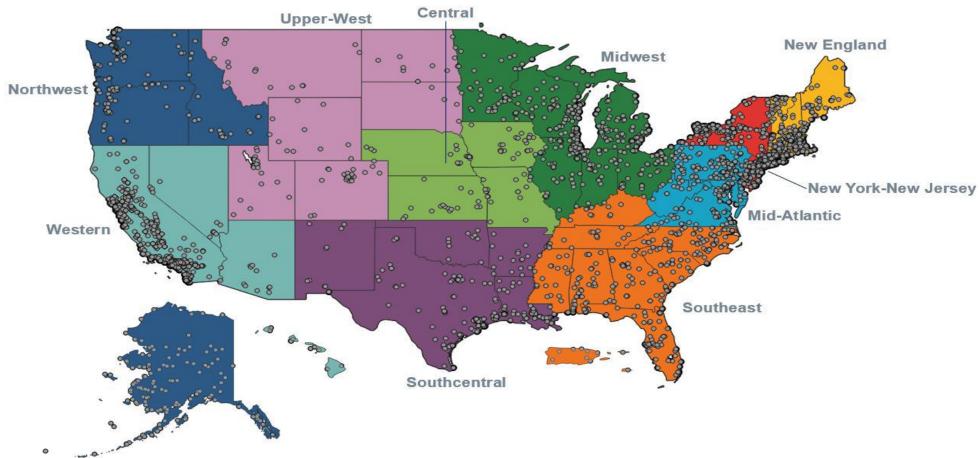


Overall Efficiency - Based on Higher Heating Value of Fuels



4,400 ENERGY COGENERATION UNITS EFFECTIVELY WORKING TODAY

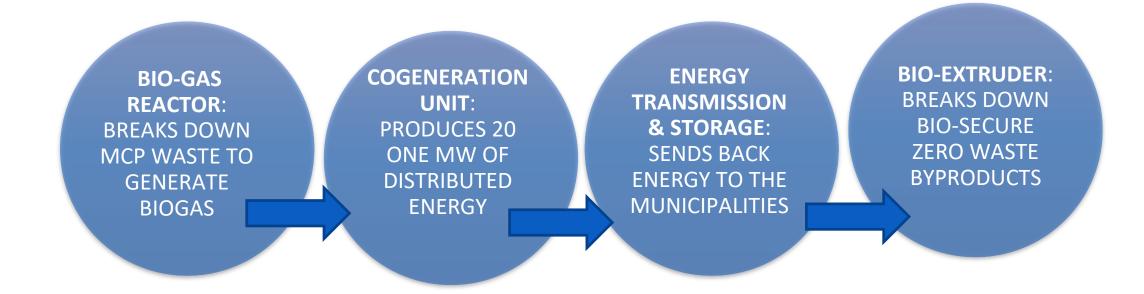








CETS REGIONAL WASTE TO RENEWABLE ENERGY UTILITY: FOUR PHASES







WASTE IN ENERGY OUT: SUSTAINABLE COGENERATION



Depending on the volume of waste processed, our systems recover energy as hot water, steam or electricity









Our products accommodate up to 500 tonnes/day. (Pre-sorting isn't required!)



Waste is converted to a gas at temperatures reaching 850 °C



Volatile gases are incinerated at temperatures reaching 1000°C



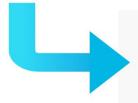
DIOXINS AVOIDED

HEAVY METALS REMOVED

DUST REMOVED

ACID NEUTRALIZATION

Emissions meet or exceed all EU and North American standards



RESIDUALS RECYCLING

Ash and metals left at the bottom of the combustion chamber are collected and sent for recycling







CETS PROJECT DELIVERABLE

20-1 Megawatt CHP Cogeneration Stations Input | Output Per Day 720 MT Waste Input
440 MW of Energy Output
880 MW of Heat Output
40,680 Gal of Water
Output

Delivering Low Carbon Zero Waste Utilities for the Region





CETS W2E UTILITY REGIONAL SERVICE

1 Megawatt Per Hour Waste to Energy Generation Per Year Service Agreement					
Processing	Waste Input Per Day	Product Potential Output Per Day	Product Potential Input / Output Per Year (365)	Market Price	Total Client Cost Per Year
Waste Disposal	36 MT		13,140 MT	\$60	\$788,400.00
Renewable Energy		22,000 kw	8,030,000 kw	\$0.06	\$481,800.00
Thermal Waste Heat		44,000 kw	16,060,000 kw	\$0.06	\$963,600.00
Distilled Water		2,034 Gal	742,410 Gal	\$0.40	\$296,964.00
Total Waste to Energy Utilities Service Agreement Annual Cost					\$2,530,764.00
Discount on a 25-year Term Service Agreement Contract Annual					\$30,764.00
Total Waste to Energy Utilities Service Agreement Annual Cost					\$2,500,000.00





ZERO WASTE SUSTAINABLE ENERGY SOLUTIONS

CETS will deliver: waste elimination, recycling, electricity generation, thermal waste heat, distilled water, with .01% CO2 emissions.

REDUCED UTILITY BILLS

REDUCED EPA PENALTIES

SUSTAINABLE AND RENEWABLE ENERGY SOLUTIONS

WORLD CLASS CETS VENDOR NETWORK

SUSTAINABLE ENERGY ATTRACTS
MANAGEMENT SERVICES

SUSTAINABLE ENERGY ATTRACTS
BUSINESS AND GROWTH

W2E UTILITIES CREATE LOCAL
SELF-RELIANCE



THE CIRCULAR ECONOMY: CETS CARBON REDUCED ZERO WASTE SMART UTILITIES



SMART GRID AND DISTRIBUTED ENERGY TRANSMISSION

ORGANIC WASTE
TRANSFORMATION INTO
COMBINED HEAT AND
POWER (WCHP)
COGENERATION

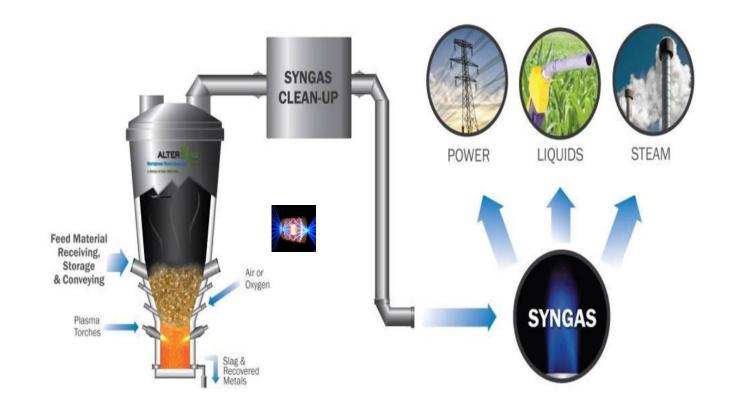
WASTE TRANSFORMATION
INTO ENERGY AND
INDUSTRIAL PRODUCTS





W2E TECHNOLOGY SOLUTIONS

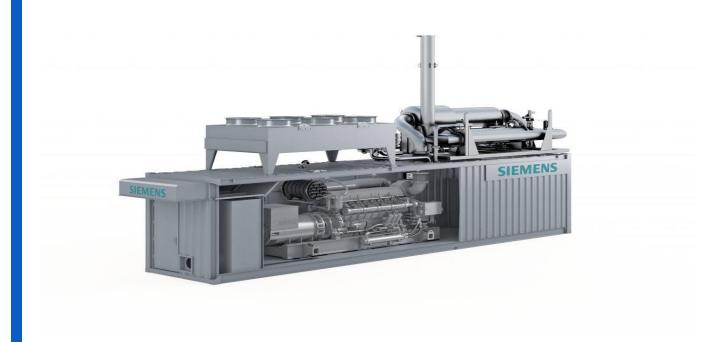
- Sustainable Biomass
- CHP Cogeneration
- Smart Grid Ready
- Distributed Utility Units
- Big Data Cloud Monitoring







COGENERATION CHP UNITS









WORLD CLASS VENDORS



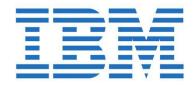
Ingenuity for life















SGT-300, Fuel Flexibility with Low Emissions University of New Hampshire (UNH)







The cogeneration plant provides:-

- 95% of steam demand
- 75% of electrical load
- Fuel efficiency of nearly 80%
- 30% reduction in Nox & 60% Sox

- 7.6 MW electrical power output
- 35 MW_{th} steam output
- Overall CHP efficiency > 77%
- Tri-fuel: Nat Gas or Nat Gas/Landfill Gas blend (Gas Wobbe Index range 32 to 49 MJ/Nm³) or Liquid Fuel
- Low Emissions to atmosphere: Nox > 15 ppmv
- Ambient temperature: -28°C to +32°C





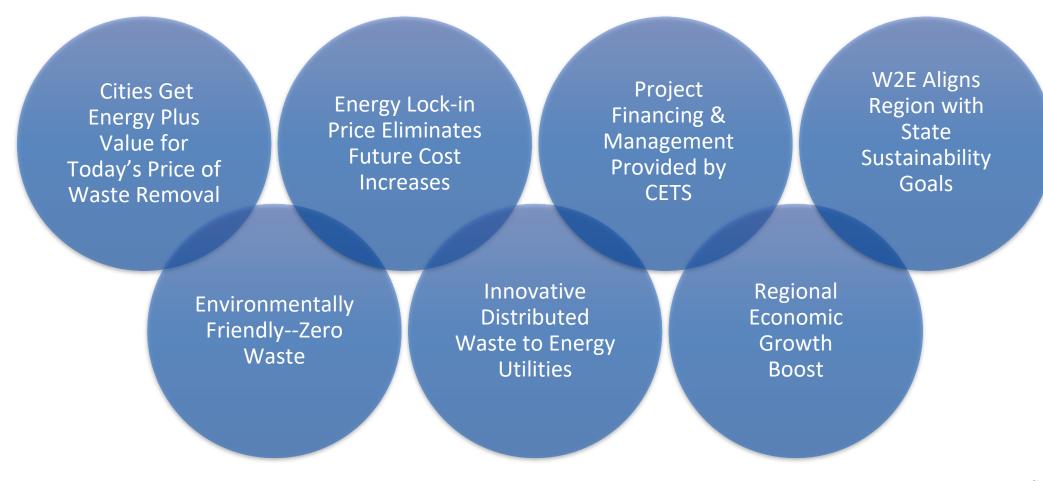








KEY BENEFITS FOR MUNICIPALITIES & REGION







FINANCING

CETS WILL PROVIDE
APROX. \$300
MILLION IN
PROJECT
FINANCING IN 2020
TO DEVELOP THE
W2E UTILITIES



CONTRACTING

CETS MUST SECURE
W2E SERVICE
CONTRACTS WITH
COUNTIES TO
FINALIZE
FINANCING AND
DEVELOPMENT





CALL TO ACTION

Let's Transform the Region's Growing Municipal Waste Problem with W2E Sustainable Utilities

Sign On with Lane Township & CETS





