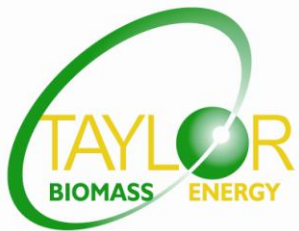


NYS Association for Solid Waste Management
Monday, September 29, 2014



The ABCs of Innovative, Alternative Energy

A

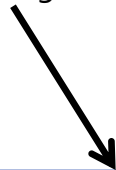
Abundant Feedstock

- C&D
- Wood Waste
- MSW
- Commercial Waste
- Storm Debris
- Agricultural Wastes

B

Biomass Gasifier Technology

Converts organic carbon solids to its most gaseous states, also known as synthesis (fuel) gas.



Most Gaseous Forms

Hydrogen 48%
Methane 25%
Carbon Monoxide 18%
Inert Gases 9%

C

Conversion Products

The combined-cycle power plant uses the synthesis-gas as a fuel source to make renewable, alternative electricity.

D

Dollars

- Total project cost: approx. \$150-\$175M;
- 82 permanent jobs, will generate \$5.9M in labor income, and \$27.3M in economic output;
- 318 temporary construction jobs will generate \$13.9M in labor income and \$49.4M in economic output;
- An estimated \$1.2M will be paid in property taxes.

E

Education

Employees will receive extensive training. Project will employ individuals at entry, mid and senior levels.

F

Financing

Taylor has the potential to bring its own finance to a project

G

Graduation

Sustainability; The facility will produce 24Mw of clean, renewable energy, using locally-sourced feedstock & local labor, while reducing greenhouse gas emissions by 477,000 tons/year.



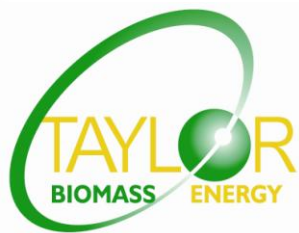
What Is in Our Waste?

What is in your waste basket at home? In the office?
Your response would tell me the finished manufactured product.
Chemistry tells us differently ...

Using Orange County as the example*:

- 1) Unrecognizable(smaller than 3/4") 10% - Landfill/compost materials
- 2) Inorganic 23%- all recyclable
- 3) Household Hazardous Waste 2%- ever shrinking
- 4) Organics 65%- The Fuel of the Future**

Paper, fiber, food, leather,
textiles, wood waste
(excluding pressure treated
or painted) and plastics (due
to their oil content).



*Waste characterizations may vary slightly, by region, but the components of its make-up will, generally, be consistent among these categories.

Types off Gasification

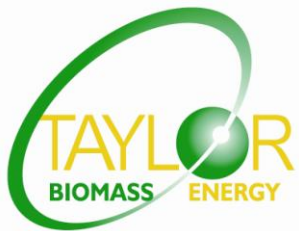
- Air-blown gasification ~150 Btu/scf
(3.5-7Mj/Nm³)
- Oxygen-blown gasification ~300 Btu/scf
(7-15 MJ/Nm³)
- Indirect gasification
The Taylor Process ~350-500 Btu/scf
(13-20 MJ/Nm³)

Uses for the gas

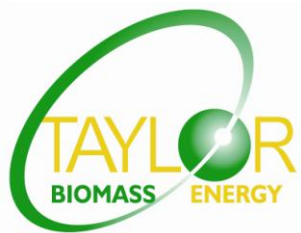
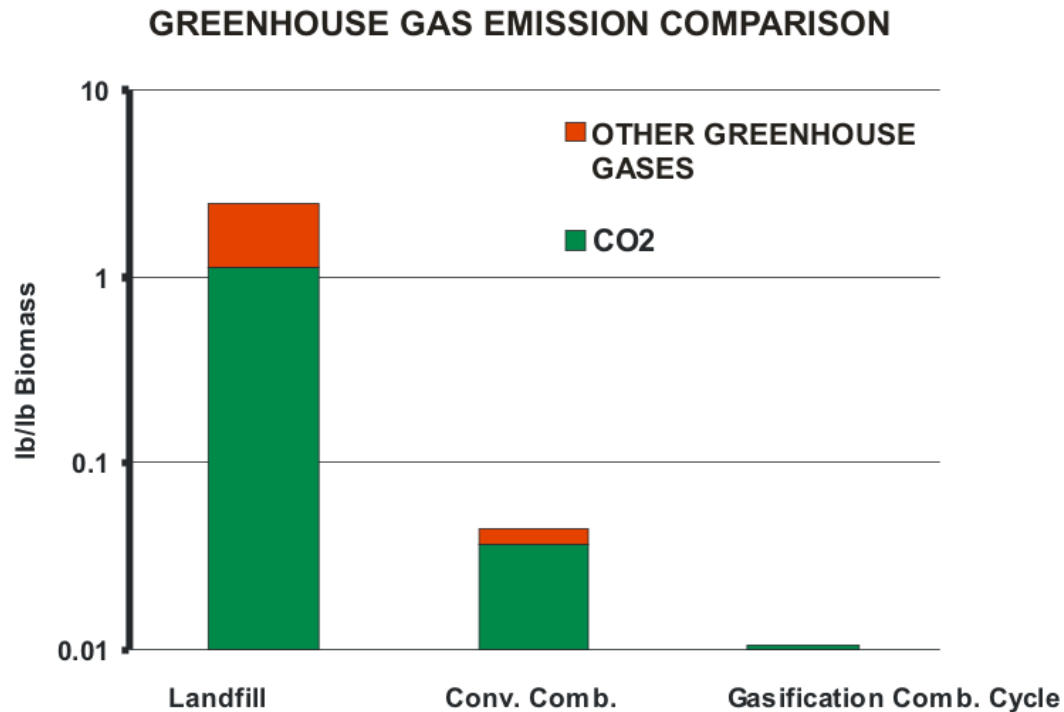
- Boilers
- Kilns
- Other Industrial Natural Gas Uses
- Gas Turbines
- Gas Engines
- Fuel Cells

Synthesis Applications

- Mixed Alcohols
- FT Liquids
- Ethanol
- High Value Chemicals
- Uses not yet determined



Eliminating Landfill Disposal Provides Substantial Greenhouse Gases Reduction



- 318 Temporary Union Construction Jobs in Orange County
 - 553 Construction jobs created outside Orange County, directly, in-directly or via induction.
- 82 Direct onsite jobs created;
 - 60 Post Collection Separation Facility Employees
 - 17 Gasification Facility Employees
 - 5 Trailer drivers
 - Average wage: \$39,233/year



- 35 Union Jobs Retained
- 52 Additional jobs in Orange County created in-directly or via induction.

Thank You!

Questions or Comments- please contact:

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