Oneida Seven Generations Renewable Energy Facility

Generating electricity
Reducing landfill waste
Providing jobs and economic development
Oneida Seven Generations Corp.

- A tribally chartered and owned subsidiary of the Oneida Nation of Wisconsin.

- The corporation promotes and enhances business and economic diversification on behalf of the Tribe.
Location

1230 Hurlbut Street
On Green Bay’s far northwest side
How it works

- Trucks with municipal solid waste (MSW) enter the building
- Upon entering, overhead doors are closed
- The material is then loaded onto a conveyor system for sorting
How it works

- Personnel sort out recyclables (plastic, aluminum, steel, etc.)
- It is examined for inappropriate materials
- The waste is shredded and ground into small pieces
How it works

- The waste is reexamined
- It is re-ground into smaller pieces no larger than two inches in size
- It is then fed into the pyrolysis gasification unit
Gasification Unit

- Feedstock Hopper
- Dual Feed Knife Valves
- Upper & Lower Retort Auger Chamber
- Dual Discharge Valves
- Cooling Tower Gas Cleanup
- Pyrolysis Heating Chamber
- Super Low NOx Burner NOx = <20-PPM
The Result

- The high heat creates syngas
- Syngas is then fed to the gensets which generate electricity

Cummins Genset
Energy creation

- Five megawatts of electricity is generated hourly
- The equivalent of 19 wind turbines
- The power generated by OSGC can serve between 3,000 and 5,000 homes
Important facts to know

- The gasification technology is NOT new, nor experimental
- It is utilized in the U.S. and globally
- There is NO incineration; there is NO flame
Additional important facts

- Little noise and odor; all work is done in a closed facility.

- Up to 25 trucks per day will provide waste to the plant during normal business hours.

- The facility will meet or exceed current federal standards for safety, emissions and pollutants.
Emissions

- Any water generated or used is treated and reused or discharged into a sanitary sewer.

- There will be no smokestacks such as those associated with coal-fired power plants.
Government approvals and continuing oversight must be obtained from:

- The U.S. Department of Energy
- The U.S. EPA
- The Bureau of Indian Affairs
- The WDNR
The Benefits

- 40 to 50 jobs during construction
- 22 to 30 full and part-time jobs created
- Will reduce the amount of waste to landfills by up to 90%
Land and Facility

- Facility cost: $23 million
- The land cannot be placed in trust
- The land cannot be used for gaming
Project Contacts

- Kevin Cornelius, Chief Executive Officer
  Phone: 920.347.0500
  Email: kevin@osgc.net

- Mailing Address:
  P.O. Box 257
  Oneida, WI 54155