



# Renewable Energy Facility

## Oneida Seven Generations Corporation

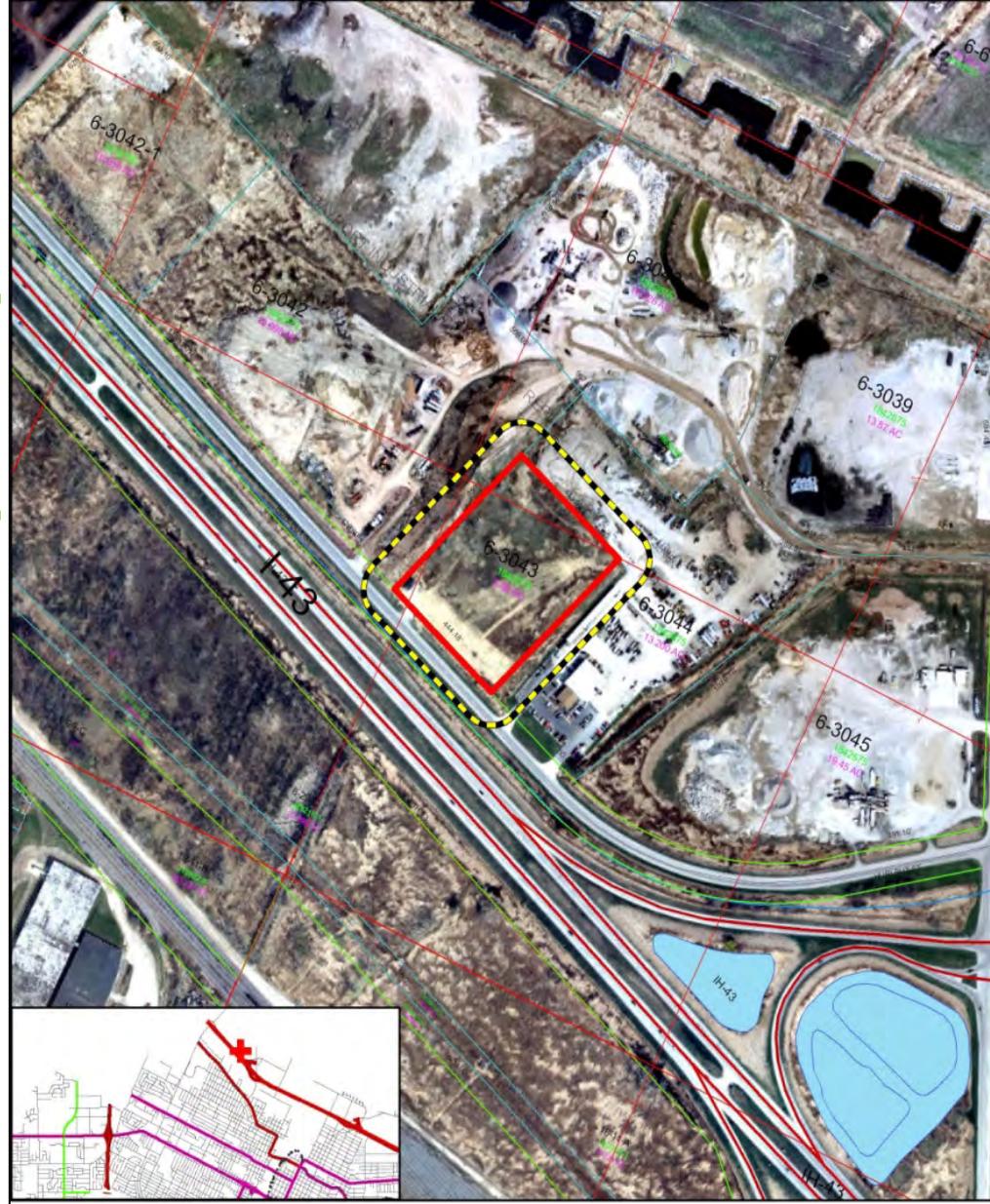
Reducing Landfill Waste. Recycling.  
Creating Jobs. Generating Electricity.





# Location

**1230 Hurlbut Street**  
On Green Bay's far northwest side



**Zoning Petition (ZP 11-07)**  
**Request for a Conditional Use Permit (CUP) to authorize a solid waste facility within the General Industrial (GI) District, located in the 1200 Block of Hurlbut Street**

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Map prepared by City of Green Bay Planning Department  
PM, February 2011, X:\Planning\City\DP Maps\001102P11-07



-  Subject Area
-  100' Notice Area



# Waste to Energy Project

- Environmentally friendly
- Reduces landfill waste
- Increases recycling
- Generates electricity
- Provides jobs & economic development





# Government Approvals

## U.S. Department of Energy

- Conducted its own, independent environmental assessment
- Issued a FONSI  
(Finding of No Significant Environmental Impact) in Fall 2011





# Government Approvals

## Wisconsin Department of Natural Resources

- Determined project will meet all applicable air and waste pollution control requirements
- Determined the facility will not cause significant, adverse, environmental impacts
- Issued final air & waste permits in fall 2011; approved air permit revision in June 2012





# Government Approvals

## **U.S. Bureau of Indian Affairs**

- Issued a finding of no significant impact

## **Green Bay City Council & Plan Commission**

- Overwhelming approval of a conditional use permit (CUP) for facility site

## **Oneida Nation Business Committee & GTC**

- Passed resolution of support





# Important Facts

- Technology is not new, nor experimental
- There is no incineration. WDNR memo:  
**“Pyrolysis is not incineration due to the lack of added oxygen to the system.”**





# Important Facts

- System will meet OSHA noise requirements
- All work takes place inside a closed building
- Water generated / used will be treated and re-used or discharged
- There will be exhaust pipes but no smokestacks like those on power plants (will meet city height codes)





# Important Facts

- No more than 30 trucks/day delivering material 5 days/week during regular work hours
- Operation will meet or exceed all applicable local, state and federal requirements for safety, emissions and pollutants
- Land cannot be placed in trust or used for gaming





# How it works

- Trucks with municipal solid waste (MSW) enter the building; overhead doors are closed
- The material is dumped and an initial review takes place
- Large recyclables are removed
- Inappropriate materials are removed and disposed of appropriately





# How it works

- Material goes through a bag ripper / initial shredder and onto a conveyor belt
- Recyclable plastics, as well as metals and inappropriate waste are removed
- The remaining waste is then shredded and fed into the unit



# Pyrolysis Gasification Unit

Feedstock Hopper

Dual Feed Knife  
Valves

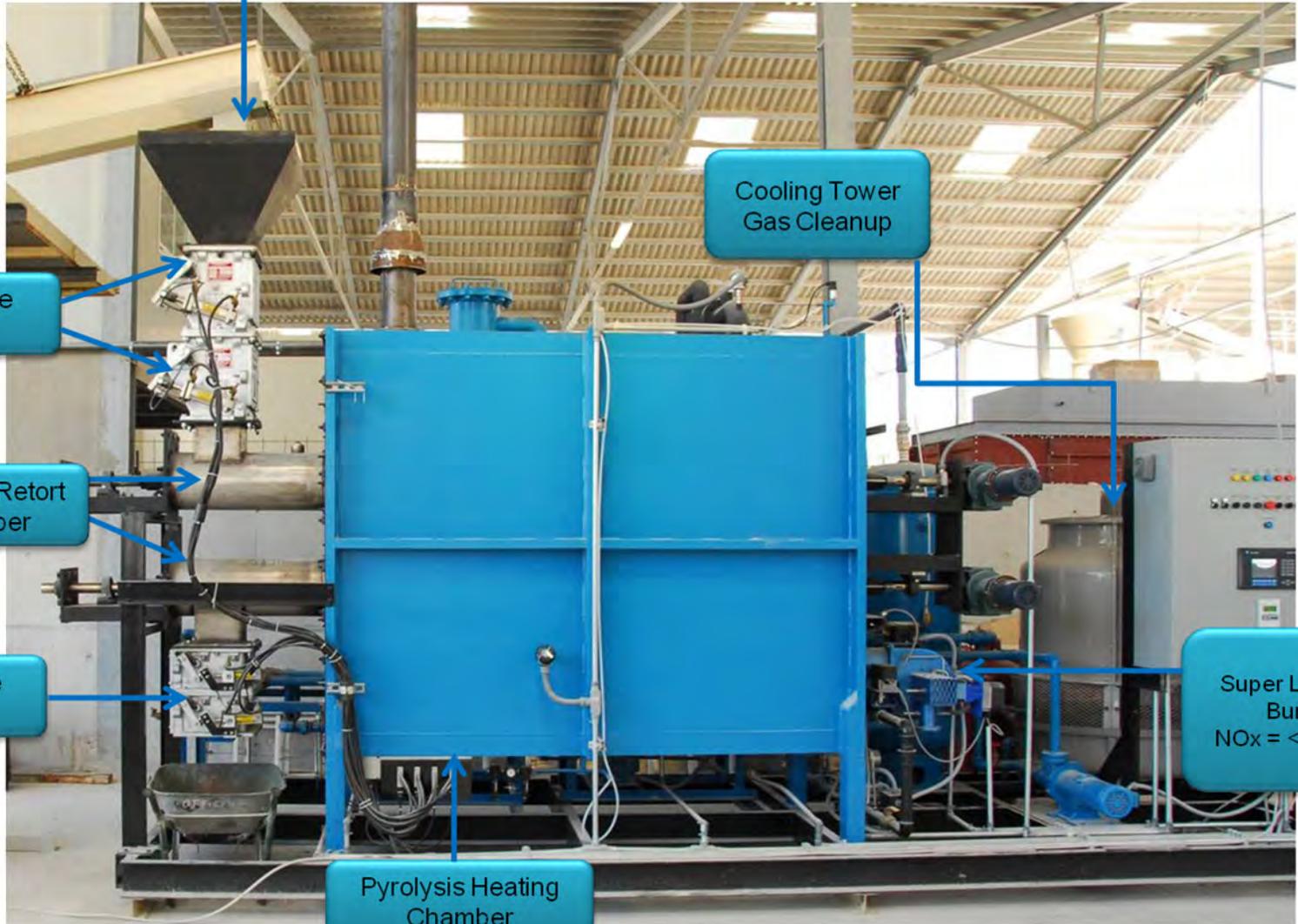
Upper & Lower Retort  
Auger Chamber

Dual Discharge  
Valves

Pyrolysis Heating  
Chamber

Cooling Tower  
Gas Cleanup

Super Low NO<sub>x</sub>  
Burner  
NO<sub>x</sub> = <20-PPM





# The Gensets

- Works like like a diesel engine
- Generates 5 megawatts of electricity per hour





# End Result



- Power will be sold to WPS
- Enough to provide electricity daily to as many as 3,000 homes in the area





# Benefits

- 40 – 50 construction jobs
- Up to 30 full and part-time jobs at the facility
- Reduction of waste going to landfills by as much as 90%
- A safe, renewable energy facility





# Project Contact

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