



Renewable Energy Facility

Oneida Seven Generations Corporation

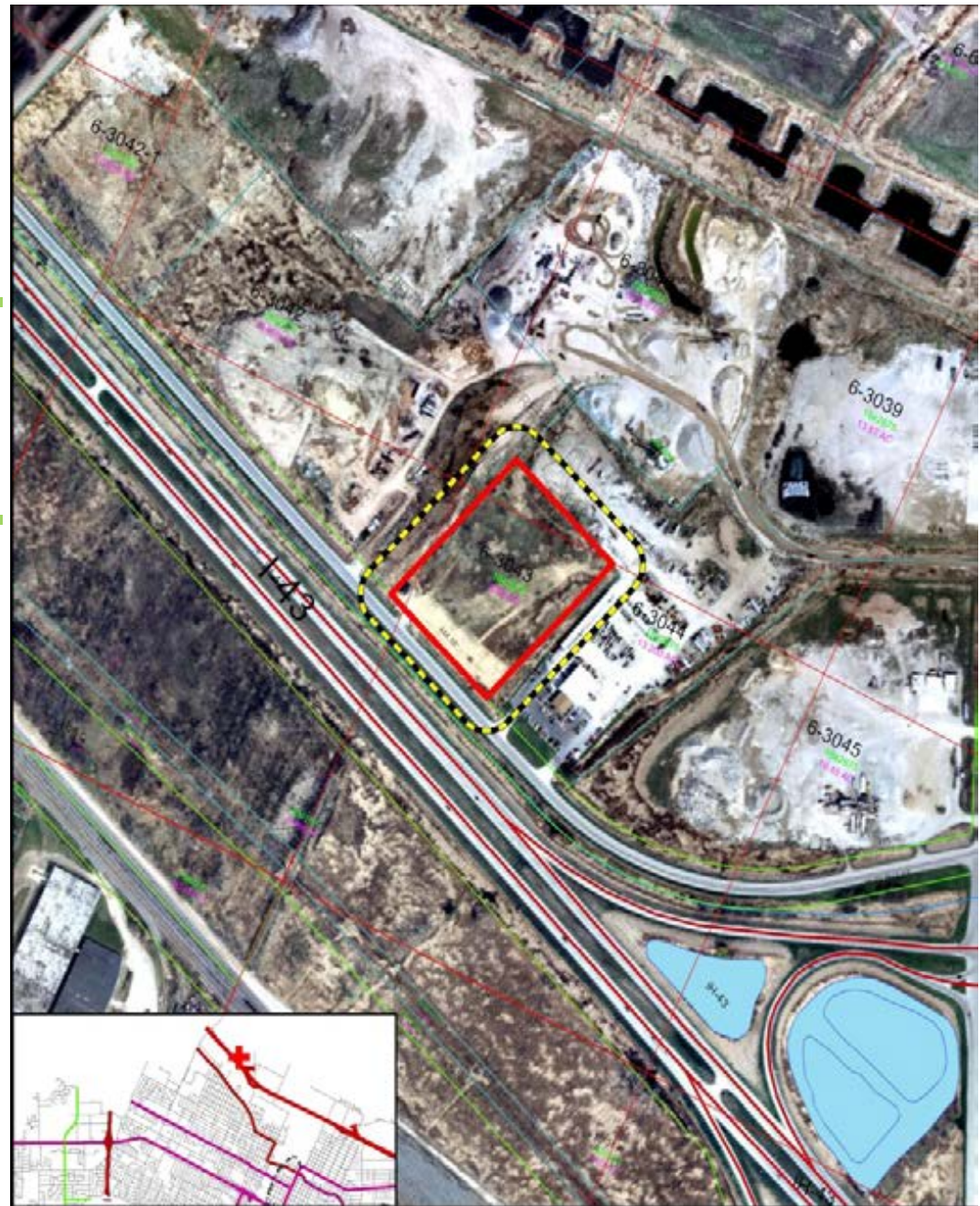
Reducing Landfill Waste. Recycling.
Creating Jobs. Generating Electricity.







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
PN: February 2011, X:\Planning\ZP Map\0211\ZP11-07

 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 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

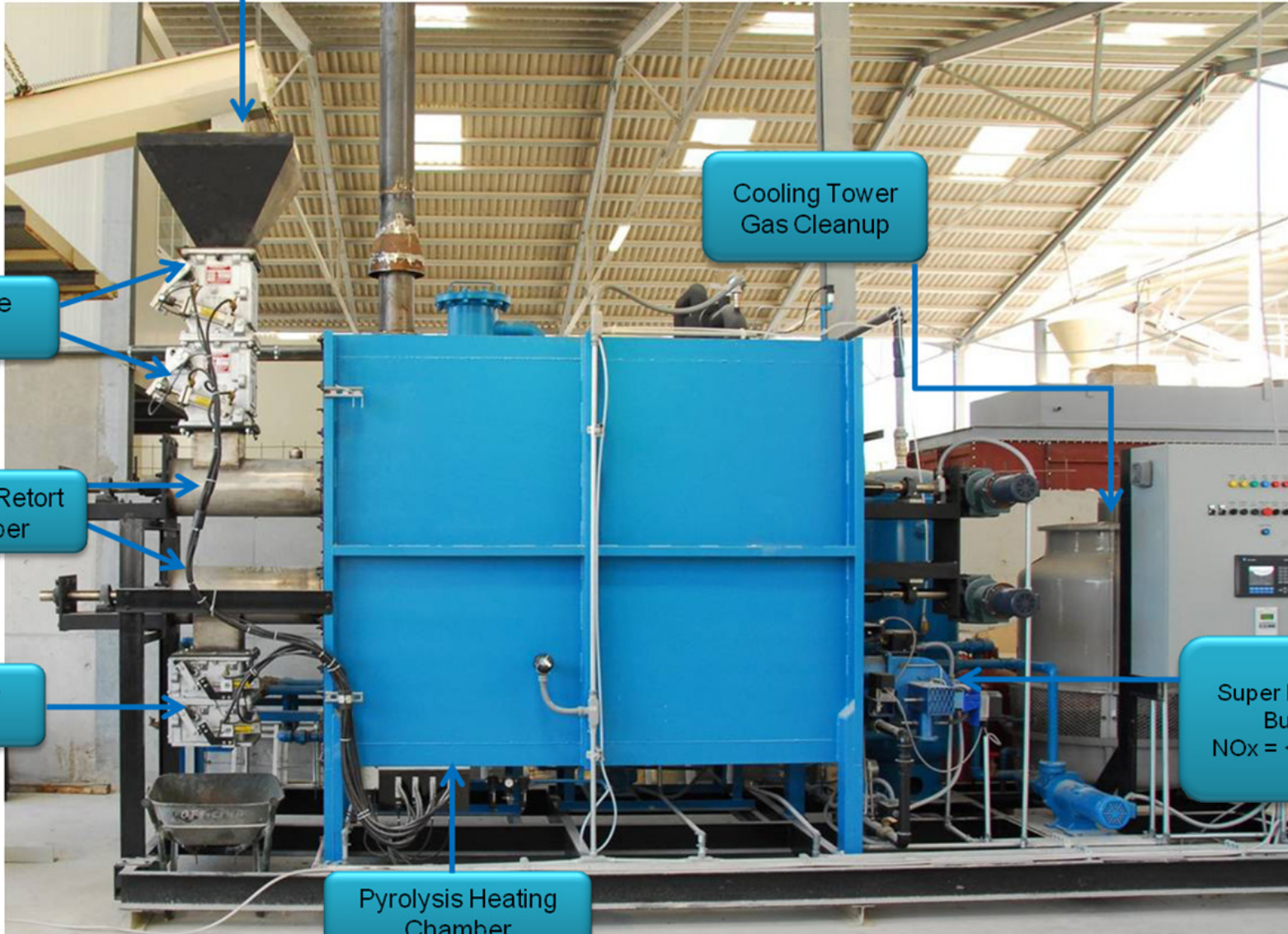
Upper & Lower Retort
Auger Chamber

Dual Discharge
Valves

Pyrolysis Heating
Chamber

Cooling Tower
Gas Cleanup

Super Low NO_x
Burner
NO_x = <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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