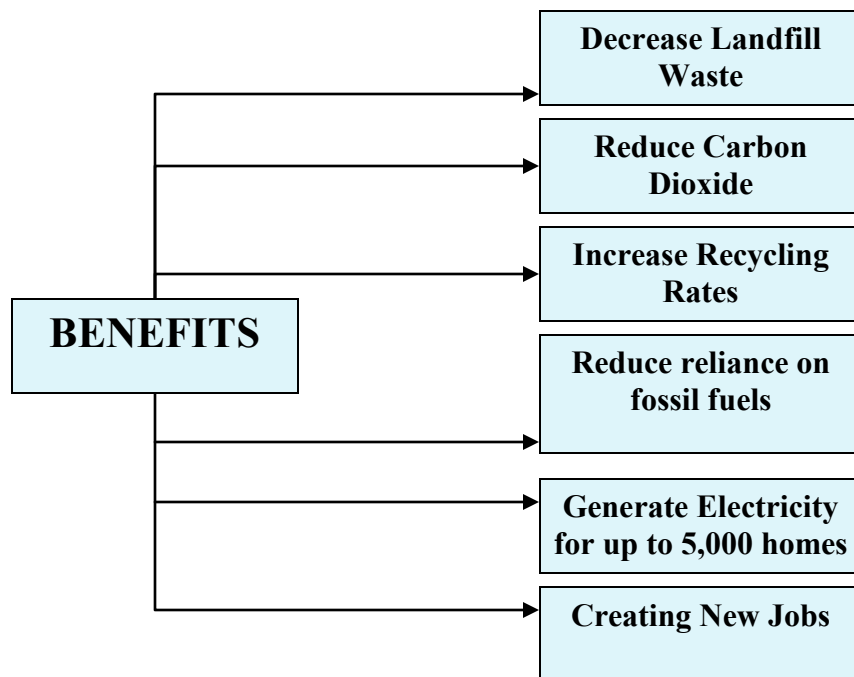


# **PYROLYSIS GASIFICATION**

## **B E N E F I T S**

### **Benefits of Waste-to-Energy Plants**



“US Environmental Protection Agency states that “waste-to-energy is clean, reliable, renewable source of energy.”



# **PYROLYSIS GASIFICATION**

## **B E N E F I T S**

### **Waste-to-Energy Benefits**

#### **Decrease in Landfill Use:**

- Waste-to-energy plants dispose of municipal solid waste (MSW) that will otherwise be sent to landfills. Oneida Energy will dispose of 150 tons of MSW per day.

#### **Reduction of Carbon Dioxide (CO<sub>2</sub>)**

- According to the US Environmental Protection Agency, “nearly one ton of CO<sub>2</sub> equivalent emissions are avoided for every ton on municipal solid waste handled by a waste-to-energy plant due to the following:
  - Avoided methane emissions from landfills: when a ton of MSW is delivered to a waste-to-energy facility, the methane that would have been generated if it were sent to a landfill is avoided.
  - Avoided CO<sub>2</sub> emissions from fossil fuel combustion: when a megawatt of electricity is generated by a waste-to-energy facility, an increase in carbon dioxide emissions that would have been generated by a fossil-fuel fired power plant is AVOIDED.
  - Avoided CO<sub>2</sub> emissions from metals production: waste-to-energy plants recover more than 700,000 tons of ferrous metals for recycling annually. Recycling metals saves energy and avoids CO<sub>2</sub> emissions that would have been emitted if virgin materials were mined and new metals were manufactured, such as steel.

#### **Increase in the Rate of Recycling**

- Studies have demonstrated that communities served by waste-to-energy have recycling rates that are nearly 20% higher than the national average.

#### **Creation of New Local Jobs**

- Up to 30 full time jobs will be created for Plant Managers and Operators
- 45 new construction jobs

#### **Electricity Generation**

- Oneida Energy will be converting 150 tons of MSW/day into 5MW of electricity/hour, which is enough energy to power 5,000 homes.

**For more information, please visit: [www.wte.org](http://www.wte.org)**