

WASTE-TO-ENERGY PROJECTS

On the cutting edge of emerging waste-to-energy technologies, **Evergreen Engineering** has designed systems utilizing pyrolysis, gasification, and anaerobic digestion. Because these techniques have the potential to produce more power from the same fuel than is possible with direct combustion, modern renewable initiatives are calling for more such facilities around the country. Put our expertise to work for you and rest assured you are dealing with a leader in this growing industry.

Agilyx

Design package for a skidded shop-fabricated version of the Agilyx 12-vessel system, including:

- Layout design and general arrangement drawings
- Design options for heat transfer fluids, cooling systems, OSS, and product storage vessels
- Specification sheets for new equipment
- Thermodynamic analysis for Heat Transfer Unit
- Analysis of safety systems for cartridge handling system, gas transfer line, condensing system, and vacuum system
- Detailed fabrication drawings for equipment skids, product recovery vessels, electrical conduit, all piping and ductwork, and supports
- Insulation and painting specifications
- Engineered structural design for skids and support frames



Columbia BioGas

- Assist owner & process specialists in developing general arrangement drawings for 3MW food waste-to-energy (biogas) plant
- Detail engineering for plant foundations, utility piping, fire protection systems, electric power and lighting

Dynamis

- Front-End Engineering (FEE) for a 250 TPD MSW-to-energy plants
- Sizing major equipment, including heat recovery steam generators, steam turbine generators, cooling towers, and electrical switchgear
- Purchasing specifications for the major balance of plant equipment
- Construction bidding documents in enough detail to allow contractors to provide Gross Maximum Price submittals
- Budget estimate for detail engineering services for a 250 TPD MSW-to-energy plant
- Scalable plant design for future site-specific locations

Green Lane Energy

- Assist owner & process specialists in developing general arrangement drawings for 3MW animal and food waste-to-energy plant
- Detail engineering for biogas plant foundations, utility piping, fire protection systems, electric power and lighting



EVERGREEN ENGINEERING

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