

Waste Not, Want Not.

- 2.85 MW electricity
- 20,000 tonne CO₂ reduction per year
- 70,000 tonne organic waste diversion per year



Woolwich Bio-en inc

biogas power generation

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Renewable Energy is our Future



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One third of our landfill waste is organic. This valuable matter should not be sent to the landfill – it should be reused in a safe, ecological way.

Safe, Renewable Energy

There are four types of renewable energy: wind, water, solar, and biogas. Biogas is clean, safe, renewable and is used worldwide.

How Biogas Systems Work

During the biogas process, methane gas is removed from the organics and used to create electricity and heat. The majority of what's left is used for fertilizer.



What Are The Environmental Benefits?

- Displacing of organics from our landfills.
- Reducing Greenhouse Gasses emitted to the atmosphere.
- Reducing dependence on fossil fuels for electricity and heat.
- Pathogen reduction.
- Odour Reduction.

Keeping Our Drinking Water Safe

Without safe handling, decomposing waste can result in contamination of surface and groundwater. Processing organics through anaerobic digestion helps to protect surface and ground water.

Woolwich Bio-en Elmira

What We Are Doing For You

We understand concerns such as odour control, noise and visual appeal. We follow Best Management Practices for all activities; including odour control.

Due to the facility location in Elmira, we are taking extra steps that have not occurred at most other facilities:

- Extensive berming for reduction of noise and visual.
- Enclosed building for liquid and solid waste receiving.
- No outside storage.
- Pre-treatment of organics before digester.
- Covered residue tank with limited residue storage.
- Air is collected, washed, filtered and can be burned with biogas if required.
- Biofilter is enclosed and has built in redundancy.
- There is no significant impact on existing traffic.
- Entire project is designed to focus on high energy inputs to reduce facility size and reduce the volume of inputs needed.

The design of the Woolwich Bio-en facility is done by a design team, with each member of the team contributing their expertise to the final design.