

## McGill introduces full-loop, bio-based systems for green energy production

### One system. One vendor. Full-loop sustainability

McGill Environmental Systems, with 20 years of experience in building and operating industrial composting facilities, announces the development of a new system which incorporates energy generation into its regional sustainability model for organics recycling.

The company can provide services to or retro fit an existing power plant to add composting, partner with a bio-energy technology vendor, or build a plant from the ground up with a turnkey program which includes everything required for the design and operation of a full-loop facility for organics diversion and energy production.

This systems approach delivers significant cost savings over separate digestion and composting facilities, and when used to capture and recycle all organics in a region (including biosolids), can literally save millions of dollars *before* factoring shared revenues derived from the sale of soil amendments and green energy products.

In addition to design, permitting, construction and operation, full turnkey services include:

- Feedstock sourcing and transportation
- Pre-treatment options like dewatering and biological sludge drying
- Power/fuel generation
- Composting
- Product marketing

Compost products are sold in the region to grow new raw materials for agribusiness and industry. Eventually, they find their way back to the facility as municipal, agricultural, or industrial wastes, closing the recycling loop.

### Why McGill prefers bio-based energy generation to thermal

Thermal waste-to-energy (WTE) and methane capture technologies offer vast improvements over old incinerators and landfills, but have one fatal flaw -- they still destroy valuable resources in the process.

Biofuel technologies extract only the energy (which plants don't need, because they get theirs from the sun) without destroying the inherent value of the feedstocks, making bioenergy the better choice.

Those resources, if captured and returned to the soil in the form of compost, will dramatically cut the need for agricultural chemicals, save water, restrict the flow of pollutants to streams and estuaries, and restore natural soil ecosystems.

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*True sustainability begins and ends with compost.*