

Solid Waste Management



Waste is a sign of an inefficient system. Our job is to recognize the savings to clients specific and society in general that come from improved waste management. We work as an extension of our client's team to develop customized approaches that meet their specific needs. Services include:

- **Strategic Analysis and Planning**
 - Waste management planning
 - Policy development
 - Waste generation analysis
 - GHG assessments
 - LEED® design
- **Prefeasibility and Feasibility**
 - Technology evaluation and selection
 - Waste characterization analysis
 - Market studies
 - Systems integration
 - Collection
 - Transfer
 - Processing/recycling
 - Composting/anaerobic digestion/energy recovery
 - Residue re-use and disposal
- Site selection, land use planning
- **Approvals and Permitting**
 - Environmental assessments (all levels of government)
 - Planning approvals
 - Natural environmental and cultural evaluations
 - Community consultation and facilitation
 - Permitting and regulatory compliance
 - Regulatory interpretation, negotiation
- **Design and Construction Management**
 - Landfill design, compost facility design, waste to energy facilities, organics management
 - Compliance monitoring
 - Structural, electrical, civil design
 - Costing, scheduling, project tendering
 - Design, consultation and construction management
 - Operations and maintenance manuals and procedures



Waste Management Systems



Organics Processing



Thermal Treatment



Landfills



Communications





Waste to Energy Technology Review and Pre-Feasibility Study

Yukon Energy Corporation considered a waste to energy option to provide a consistent supply of electricity. Resources would be extracted from municipal solid waste, extending landfill life and reducing future landfill liabilities. The energy supply would augment their current electricity supply and displace fossil fuel-derived electricity from diesel generators operated during high demand periods. Our team provided an informed and independent assessment. We undertook a feedstock characterization study and reviewed proposed and alternate technologies. A range of technological options were examined through a pre-feasibility study, giving consideration to augmenting feedstock with biomass sources and District Heat utilization. We determined regulatory requirements and associated constraints, and acted as resource expert for a 3-day “energy charette”.



Construction and Demolition Waste Audit and Waste Reduction Workplan

As the Lead Sustainability/Green Consultant during the reconstruction of a federal government building in Gatineau, Quebec, we planned a significant waste reduction program to fulfill provincial legislative requirements. Based on information gathered during a waste audit, a work plan was created to assist in achieving waste reduction goals. Strategies and protocols were developed for handling and disposing of a significant volume of waste through a 3R program. Existing problem areas were identified and new opportunities for recycling identified, assisting in diverting recyclable materials from the waste stream and decreasing the overall waste management costs. These activities promoted a positive, proactive, environmentally conscious image.

