

# ORGANIC WASTE



Climate change is requiring public policy to achieve global emission targets and transition to zero-waste circular economies

**For cleaner, healthier communities, local governments face challenging decisions when considering how to best manage organic waste for the long-term. Policy makers are tasked with leading the diversion of organic waste from landfills to transform it into beneficial end-products for community use.**



To design, construct, and operate a high-performing organic waste management facility, specific considerations are necessary. This includes a thorough understanding of the various organic waste stream characteristics, how sensitive receptors impact site selection, a disciplined evaluation of new technologies and innovation, to ultimately operate a successful facility that achieves a sustainable Waste-to-Resource revenue stream.

**Our waste management specialists advise partners throughout the process—from site selection to facility completion**

Our experienced planning team will identify opportunities for our partners in waste management by reducing capital costs in the selection of efficient, innovative, and economic-generating technologies. Initial capital investments to an organic waste processing site, which can operate indefinitely, will be offset by long-term savings with the production of an end-product for market, while reducing landfill utilization.

**RWDI is a valuable partner when you seek to...**

### **Create Opportunities**

Detail-minded engineers and scientists partner with you to reduce operational costs by identifying areas for efficiency. This includes integrating waste streams, such as wastewater treatment, and industrial biosolids. We apply deep scientific knowledge on how various waste feedstocks interact in order to maximize environmental, human-health, and economic benefits, yet minimize the community's carbon footprint.

### **Meet Challenges**

With unmatched technical expertise, industry experience, and regulatory knowledge, we provide you with the certainty needed to achieve long-term operational success. Our integrated team of experienced engineers and scientists design outcomes to meet your community's unique needs. A forward-thinking approach anticipates local and global concerns, such as food security, nutrient management, energy use, and GHG emissions. We will guide you to find the best technology available and develop strategies that will meet your long-term sustainability goals.

### **Fulfill Expectations**

The realities of climate change and resiliency affect each decision relating to the operational needs of a facility. By building resiliency models that incorporate the use of organic materials into municipal planning, we help local governments safeguard their communities in the long-term. We design models to help mitigate climate change while generating a resource revenue stream.



Empowering our clients to build greener, healthier, and resilient communities that are adapted to climate change.

## Services

- Acoustics, Noise & Vibration
- Air Quality & Odour Management
- Alternative Option Analysis
- Best Management Plans
- Building Enclosures
- Climate Change & Resiliency
- Comprehensive Financial Analysis
- Design & Operations Reports
- Energy, Sustainability & Commissioning
- Environmental Monitoring Plans
- Financial Assurance (FA) Evaluation Reports
- Hydrogeological & Hydrological Evaluations
- Leachate Management
- Operating & Maintenance Manuals
- Peer Review & Audits
- Regulatory Permitting, Compliance & Reporting
- Site Selection
- Soil Management
- Trigger Mechanisms & Contingency Plans for Groundwater & Surface Water
- Ventilation & Corrosion Mitigation
- Waste-to-Resource Revenue Stream Analysis
- Weather, Meteorology & Climate
- Wind Effects

## Expertise to support clients at every phase

-  Complete organic waste feedstock inventories and characterize the residential, ICI, L&YW, and biosolids waste streams.
-  Conduct a comprehensive site selection evaluation that achieves community, operational and environmental objectives.
-  Apply innovation and BAT Analysis for facility planning and design. Includes LEED integration and climate change resiliency assessments.
-  Build environmental and best operational management plans, as well as stakeholder engagement to achieve regulatory permits.
-  Support with ongoing monitoring, regulatory compliance, and reporting.

