Progressive Waste Solutions Ltd.
Corporate Sustainability and Community Commitment

“We don’t just talk about improving the environment. We act, and the results are tremendous. This is part of our commitment to our customers and to our communities of achieving our goal of a greener environment.”

- Joe Quarin, Vice Chairman and Chief Executive Officer

About Us

Progressive Waste Solutions Ltd. is one of North America’s largest full-service, vertically integrated waste management companies, providing non-hazardous solid waste collection, recycling, and landfill disposal services to commercial, industrial, municipal and residential customers throughout the U.S. and Canada. Its major brands, IESI, BFI Canada and Waste Services Inc., are leaders in their markets. We pride ourselves on our environmental awareness, community involvement, and a very strong commitment to personalized and friendly customer service.

Commitment to Sustainability

Progressive Waste Solutions is committed to creating a more sustainable future.

Our landfills fund infrastructure for public use and provide compost, nutrient management, and recycling, energy recovery, education and many other environmentally and socially responsible initiatives.

Our environmental practices and technologies provide benefits including: diversion of waste from our landfills through our recycling facilities; organized, timely, safe waste removal from residential and business communities; energy capture of greenhouse gases for productive use; and recycling and composting to conserve precious resources.

Beyond meeting and exceeding regulatory expectations, we work constantly to identify best management practices that promote environmental sustainability. In all of our communities, this means engaging with regulators, engineers and industry experts to learn about and implement new waste management technologies.
**Green House Gas and Carbon Reduction**

The company’s core businesses include the management of methane emissions, a Green House Gas (GHG) which represents approximately 50% of landfill gas generated by the decomposition of waste at our landfill sites. GHG emitted from our landfills accounts for approximately 90% of the company’s total emissions with the remaining 10% relating to our transportation operations.

Control of landfill gas and minimization methane emissions to the atmosphere is accomplished by the collection of landfill gas and by destruction of methane, either on our properties or as a fuel elsewhere. The elimination of methane emissions is referred to as “emission avoidance” and, currently, the company’s emission avoidance rate continues to be approximately 60% of the potential emissions that would be generated if avoidance practices were not in place.

We provide emissions controls at both our larger landfill facilities and also at some of our smaller facilities where voluntary, cost-effective emissions reduction actions have been introduced ahead of any regulated requirement because they provide a facility or operational benefit. We annually expand our gas capture at these facilities by enlarging the scope of controls and also by expanding the range of gas control facilities at our smaller sites.

As our landfills mature, new and expansion landfill gas control systems are installed. For example, in 2010, at the Ridge Landfill in Blenheim, Ontario, landfill gas collections wells and flares were initially deployed in 2010, expanded in 2011 and 2012, and will continue to be added to in subsequent years to capture and destroy methane gas generated at the site. Other sites, such as Seneca Meadows in New York State, also continue to expand gas control as the landfill ages.

Where gas collection using wells is not applicable, we use alternative technologies to advance our emission reduction initiatives. We have, after several years of research, received regulatory approval for a new, first-of-its-kind in Alberta, Canada, passively managed landfill cap enhancement at the Calgary Landfill that reduces methane emissions substantially more effectively than by traditional landfill covers. In Louisiana, United States, at our LaSalle Grant Landfill, we have received regulatory approval, after a successful pilot, for an alternative landfill final cover system cover that utilizes an innovative synthetic material, known as “Closure Turf”, to close finished portions of this facility. Closure Turf allows capture of GHG emissions while also providing a functional and visually attractive finish at significantly less cost than traditional landfill closure systems. This cover allows us to also benefit from the capture of landfill gas which it is not required to do by permit thereby providing an opportunity to create voluntary green house gas offset credits. In 2010, this synthetic cover approach was also proposed for use in the State of Texas and was approved for a pilot scale installation in 2011.

As more landfill gas control systems are installed at the company’s landfills, additional facilities will come on stream to manage our emissions, reduce the quantity of methane emitted and increase emission avoidance.

**Recognition of Landfill Excellence**

SWANA’s Excellence Awards Program recognizes outstanding solid waste programs and facilities that advance the practice of environmentally and economically sound solid waste management through their commitment to utilizing effective technologies and processes in system design and operations, advancing worker and community health and safety, and implementing successful public education and outreach programs. Programs also must demonstrate that they are fiscally and environmentally responsible through their compliance with all applicable federal, state and local regulations.

Seneca Meadows has been previously awarded the “Seneca County Business of the Year” and received the Rochester Business Journal Environmental Leadership Award in 2009. The Montezuma Audubon Center recently honored Seneca Meadows with the Donald T. Colvin Conservation Award for its outstanding service and continuing vigilance in the preservation and enhancement of the environment. The facility has also received a U.S. Congressional Proclamation for its commitment to preserve and protect the environment.

Timber Ridge Landfill has also recently been presented with the “Outstanding Achievement in Environmental Leadership” award by the Missouri Waste Coalition (MWCC) and the “Outstanding Achievement Award” in the 2011 International Achievement Awards (IAA)/Geosynthetics presented by the Industrial Fabrics Association International. Through the use of the innovative Agru/Closure Turf system, Timber Ridge has been able to cost effectively contain all odors and reduce labor and maintenance at the landfill site.

### Renewable Energy and Conversion Technologies

We employ gas-to-energy technologies to convert landfill methane gas into electricity. In 1996, we opened our first power plant running on biogas at Lachenaie Landfill in Montreal, Quebec (Énergia Award in 1997, Environment category). This power plant allows the conversion of waste’s organic portion into bio-energy while protecting the environment.

In New York, at the Seneca Meadows Landfill, 18 generators produce 17 megawatts of electricity per hour. We have also dedicated 200 acres to a “Renewable Resource Park” that utilizes the energy created from the 17-megawatt gas-to-energy facility integrated in the landfill.

Conversion of methane reduces greenhouse emissions and makes a positive contribution to energy production. Our Lachenaie Landfill in Montreal and our Seneca Meadows Landfill in New York, combined with our landfill gas-to-electricity plants in Bethlehem, Pennsylvania, and St. Louis, Missouri, generate enough energy to power more than 32,000 homes – up from 17,500 homes in 2007.

Collectively, our landfill gas-fuelled power generating facilities produce 25 megawatt hours of electrical power per hour, 24 hours a day, and 365 days per year. It would require 200,000 barrels of oil to produce the same amount of power each year. The company has plans for several more like facilities as our landfills continue to develop.

In addition to electrical generation, the company opened its first operating facility in Alvarado, Texas in late 2011 where landfill gas is upgraded to natural pipeline grid quality. Additional similar facilities in both Canada and the United States are in various stages of planning and implementation.
In the area of organic waste management, the company continues to pursue other innovative emissions reductions technologies. By way of example, in Canada, the company has developed an arrangement with an anaerobic digestion provider to pursue the Quebec marketplace.

**Transportation Vehicles and Emissions Reduction**

In the transportation arm of the company, which accounts for about 10% of total emissions, there is the ongoing replacement of older waste collection vehicles with new vehicles, resulting in the company possessing one of the youngest fleets in the industry. These newer transportation vehicles are more emissions-efficient.

The company’s fleet of approximately 3,000 vehicles across the U.S. and Canada is being equipped with measures to enhance productive use to further reduce carbon emissions and environmental impact potential. Such initiatives include:

- The use of self inflating tires (in the event of a tire flat) to allow completion of daily activities without the need for tire changes. This essentially removes the need for road side tire service functions and therefore reducing the environmental impacts associated with a service vehicle while also increasing employee and public safety.

- With newer vehicles in collection fleet, the use of fossil-based lubricants is being phased out and being replaced by synthetic oils which result in greater life between engine services, less emissions and a further reduction in carbon footprint.

- In November 2009, the Company was selected by a major vehicle manufacturer because of our record of innovation to start testing a new waste collection vehicle type which was equipped with both the Diesel Particulate Filter (DPF) and the new Selective Catalytic Reduction (SCR) processes. This new system was designed to reduce the NOX emissions by 83% and meet the 2010 vehicle emissions regulations. All new diesel trucks purchased by the company are being equipped with this new system.

- The company has embraced Global Positioning (GPS) as a further tool for increasing productivity. Productivity increases result in reduced equipment operating time and vehicle driving time and distances conserving fuel and assets, which reduces its overall environmental impact and its carbon footprint.

In addition, the introduction of natural gas powered collection vehicles to our fleet will reduce emissions intensity. In 2011, we deployed our first compressed natural gas collection (CNG) vehicle in Fort Worth, Texas. An additional 10 CNG vehicles were delivered to our U.S. south operations in the summer of 2012, and an additional 10 more CNG vehicles are expected for 2013.

As of October 1, 2012, the company is now providing curb side waste, recycling and source-separated organic waste collection for the City of Surrey, British Columbia, with a fleet of 42 new CNG trucks purchased specifically for the collection contract. An additional nine CNG trucks were purchased in this market area to service the company’s commercial customers. Beginning April 1, 2013, we will deploy 60
new CNG vehicles to provide side waste, recycling and source separated organic waste collection for Simcoe County, Ontario.

In 2013, of the company’s total fleet, more than 3% of vehicles are expected to be CNG, generating fewer emissions than conventional diesel fueled trucks. The fleet will continue to be converted over time in markets where there are large enough operations to support the investment in the vehicles and infrastructure. The company will continue to propose waste collection contracts using natural gas vehicle fuel to increase the environmental attributes of the collection process.

The company is committed to continuing to use these innovative approaches to its business and to identifying other services that would mutually benefit its communities and its customers in further addressing climate change issues.

Recycling and Diversion

Over the next decade as waste per person is expected to increase, demand for material recovery solutions is expected to grow. This trend is already firmly entrenched. In fact, through the recent recession, recycling rates increased while GDP decreased. In short, green is here to stay. For that reason, we believe commercial, industrial and municipal sectors of the economy will increasingly align with partners to build a sustainable future – partners that recognize waste not just as a cost center, but as a resource to be managed for value creation. To position ourselves for this exciting future, we are giving our customers the proper tools, new services and new choices.

Our recycling services include collection of recyclable materials from commercial, industrial and residential customers, for which we charge collection and processing fees. Each day, our facilities receive and process a wide variety of recyclable materials including cardboard, glass, plastic containers, office paper and newsprint.

To provide practical, front-line support for our nation’s recycling efforts, we own or operate 50 dedicated material recovery facilities (MRFs) in North America. We are actively adding more MRFs to our network, either through organic means or by way of acquisition. For example, in 2009, we constructed and opened the first LEED Certified privately-funded single-stream material recovery facility (MRF) in the United States located in McKinney, Texas. In 2011, we announced the acquisition of The Recycling Foundation Inc., a single stream facility with approximately 35,000 square feet located in Baton Rouge and Lafayette, Louisiana. As these facilities employ a single-stream process, customers can combine paper, metals, cardboard and plastics in one large container, which increases the diversion rate.

Using sophisticated tools and our own expertise, we identify, quantify and analyze the composition of waste generated by our customers – often across multiple functional areas – to determine how they can reduce, reuse, recycle and recover value. Our reports are then used to develop comprehensive waste reduction work plans, which pinpoint opportunities to increase diversion and generate value from the recovery of everything from aluminum to cardboard.

We train our customers on how to effectively separate and manage waste streams. Then, using our integrated assets, we deliver a solution that not only meets the highest standards of environmental care but transforms waste into opportunity. Our progressive nature means we will continue to anticipate what our customers want and add solutions that will achieve the best results for them and for us.
Our sustainability efforts are reflected in the amount of material we divert from landfills across North America.

In 2010, the company diverted more than 1.2 million tons of material from landfills, including more than 600,000 tons of paper, representing nearly 10.8 million trees, a two-fold increase from 2008. In addition, our Seneca Meadows Tire Recycling center in upstate New York processes more than 1.5 million automotive tires each year for beneficial reuse.

The company’s recycling efforts extend beyond materials recovery and into the design, construction and management at our 30 landfill facilities. For example, innovative liner designs have led to the replacement of natural stone material with tire chips as a drainage layer, preserving a natural resource and providing a recycled use for otherwise disposed old tires. At some landfill facilities, beneficial re-use of material previously classified as wastes allows the company to conserve thousands of tons of capacity for waste materials.

Building Sustainability and LEED Certifications

What is LEED?

*Leadership in Energy and Environmental Design is an internationally recognized green building certification system, providing third-party verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO2 emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts.*

Through the provision of recycling services to the construction industry, the company is helping companies achieve LEED certification in their businesses. However, Progressive Waste Solutions is achieving LEED certifications in its own merit as well.

In 2009, the U.S. Green Building Council awarded the gold level LEED certification to our Environmental Education Center, located near the Seneca Meadows Landfill in upstate New York. Our building was the first to receive LEED certification in Seneca County, and is one of only 18 gold level structures in New York State. The environmental features which contributed to the gold level status include: a geothermal heating and cooling system, building with recycled and regional construction materials, motion sensor interior lighting, daylighting (lights will not come on, or will not function at full capacity when there is sufficient daylight), low flow lavatories, high efficiency water source heat pumps, low VOC paint, and native plant landscaping.

In 2010, the U.S. Green Building Council awarded Gold Certification to our Material Recovery Facility (MRF) in McKinney, Texas. The MRF was the first privately funded single-stream recycling facility in North America to receive LEED gold status. The 28,000 square-foot McKinney MRF contains numerous sustainable features including certified wood, recycled steel, low-flow water fixtures, and energy efficient machinery. Because the facility utilizes the single-stream process, customers can combine paper, glass, metals, cardboard and plastics all in one large container. This first-of-its-kind facility in the country allows us to process material more efficiently, increases the amount of recyclables being...
diverted from the landfill, creates a pleasant working environment for our employees, and provides a wonderful educational resource for the community.
Commitment to Community

No one knows the needs of a community better than those who live and work in it. At Progressive Waste Solutions, our philosophy of local managerial empowerment allows our site managers to give back to their communities in ways that best meet the needs of their communities. This location-specific approach to good corporate citizenship results in a kaleidoscope of outreach programs, contributions and support that serve to benefit thousands of people across our service region.

Encouraging Economic Growth

Our waste management and recycling facilities encourage economic vitality and growth in their communities through more than contributions. Throughout the Progressive Waste Solutions service network, our companies purchase goods and services locally, employ local people, and contribute to the local tax base.

We also belong to our local chambers of commerce, and sponsor chamber events that promote the economy. Some of our facilities provide host community benefits packages for their municipalities, as well, that lower residential taxes and provide for municipal capital improvements.

At our Seneca Meadows Landfill in New York State, innovative management of landfill gas led to the establishment of a 200-acre “Renewable Resource Park”, an economic development zone beside the landfill where currently landfill gas is converted to power at a 17MW gas-to-electricity generating facility and waste heat from the conversion process is captured to provide heat for commercial greenhouse operations. In partnership with the Seneca County Industrial Development Agency, this park has received special tax status designed to encourage the establishment of other third party eco-friendly industry at this location.

Giving Back

Giving back to our local communities is part of doing business for Progressive Waste Solutions. One of the most vital groups served by our donations is our emergency service organizations. Our facilities help provide equipment, gear, and vehicles for our local fire, police and sheriff’s departments. We also give to our ambulance services, helicopter services and specialized emergency teams.

Another area of vital importance for our giving is the children of our communities. We believe in our children, and we support them with scholarships, educational and sports programs, and school improvement projects.

At the Seneca Meadows Landfill, in upstate New York, the company opened a community education center complex where students and members of the community are now learning about recycling, alternative energy and environmental monitoring. At the Lachenaie Landfill in Quebec, more than 175,000 local students have visited the site’s educational center since 1992 and taken part in learning programs around sustainability, the environment and waste minimization.
In 2007, at Seneca Meadows, we restored and enhanced 157 acres of existing wooded wetlands to create 419 acres of new wetlands. In addition to our 576 acre wetlands preserve, Seneca Meadows also dedicated 500 acres of floodwater conveyance wetlands for permanent preservation.

In 2004, during the initial permitting of our JED Landfill in St. Cloud, Florida, approximately 1,089 acres of the facility was dedicated as a Conservation Easement granted to the Florida Fish and Wildlife Commission and Florida Department of Environmental Protection. The Conservation Easement is maintained and managed by us for the protection of several native and protected wildlife species including the Gopher Tortoise, Eastern Indigo Snake and Grasshopper Sparrow. In addition, we have completed several onsite wetlands restoration projects there to enhance the wetland tributary of Bull Creek that intersects the Conservation Easement.

Last, but certainly not least, in the area of giving are the thousands of local service and community organizations that benefit from our financial backing.

We believe that investing in service organizations, such as the Kiwanis, Rotaries, and food pantries will bring great returns to our communities. We frequently participate in city-wide trash clean-up programs and our employees are active on environmental boards and commissions. We believe that supporting the myriad of local community organizations that come to us for help will make our neighborhoods better places in which to live and work.

Progressive Waste Solutions contributes more than $30 million each year to the communities it serves, in the form of host fees, franchise fees and charitable donations. The communities we serve also recognize our commitment to the environment. We have received numerous awards and recognitions by environmental organizations including Keep America Beautiful, Ducks Unlimited and the National Audubon Society.
By the Numbers

We divert more than **1.2 million** tons of material from landfills each year.

The paper we process represents nearly **10.8 million** trees.

We process more than **1.5 million** automotive tires each year for beneficial reuse.

We generate enough **electricity** to power more than **30,000** homes.

We produce more energy than contained in **200,000** barrels of oil.

**5** landfill gas-to-electricity plants.

**30** active Municipal Solid Waste Landfills.

**49** traditional recycling facilities. **2** are single-stream.

**7,000+** employees in the U.S. and Canada.

More than **4 million** customers.

In 2013, **3%** of our 3,000 vehicles will be powered by **CNG**.

In 2011, we opened our first plant to upgrade landfill gas to natural gas pipeline quality.

For more information, please visit [www.progressivewaste.com](http://www.progressivewaste.com)