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Speaker's Corner

"Future Business, Energy and Environmental Case for Recycling" Presentation

By Harvey Gershman



In November 2010, GBB President Harvey Gershman made a presentation entitled "Future Business, Energy and Environmental Case for Recycling" during the Association of Ohio Recyclers Conference held in Dublin, OH.

View a PDF of the presentation at:

www.qbbinc.com/speaker/GershmanAOR2010.pdf

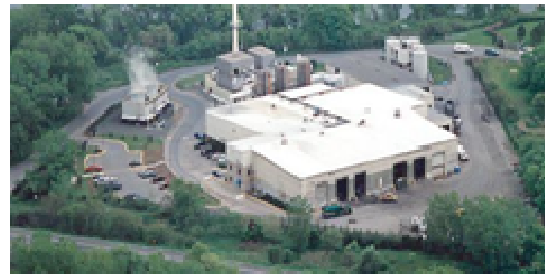
GBB Waste Outlook

GBB Presents: Client Facility Longevity Awards

In 2010, GBB celebrated 30 years in business. Since August 1980, GBB has provided consulting assistance to clients across the U.S. and internationally. As part of the celebration, we have selected a few locations where GBB has provided consulting services to its clients that have led, in part, to the sustainable operations of these systems for more than 20 years:

Springfield Resource Recovery Facility - Town of Agawam, MA

By the 1980s, the City of Springfield, MA, had to take action on its insufficient landfill capacity, and with GBB's assistance in helping to plan and procure a solution, in 1988 the Springfield modular combustion facility became a reality. Initially designed to process 360 tons of solid waste per day, the facility, with Enercon mass burning technology similar to that in Pittsfield, supplies reliable electricity to Western Massachusetts Electric Company. The facility currently processes approximately 408 tons of solid waste per day, producing about 9.4 MW of electricity. It receives solid waste from 16 communities in Massachusetts and Connecticut, processing between 123,000 and 131,400 tons of solid waste per year. The electricity production from solid waste offsets the purchase of approximately 10 million gallons of oil per year. Enercon's mass-burn, modular combustion technology has proven efficient and reliable.



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Increased Stops per Day by 29% and Reduced Fuel Consumption

FleetRoute™ Helps City of Stillwater, OK Significantly Improve Collection Operation

In 2010, the City of Stillwater, OK, rolled out automated waste collection using new routes created by the FleetRoute™ route optimization software with the assistance of GBB and technology partner C2Logix. As a result, the City increased productivity, realized significant cost reductions, and improved customer service. In addition to reducing fuel consumption, trucks increased their productivity by 29%, with each going from 700 to more than 900 stops per day. "If we tried to do this manually, it would not be very efficient," said David Higgins, Solid Waste Management Director, "We've really been able to maximize our resources." The City intends to expand its use of FleetRoute™ to its street sweeping operation.



An article on this success story, which appeared in the October 2010 edition of Fleet Technologies Magazine, is available at:

www.qbbinc.com/products/FleetRoute/Stillwater-FleetRoute.pdf

Conventions & Tradeshows:

GBB will be present at the following industry events:

Residential Recycling Conference

Nashville, TN
March 29-31, 2011

GBB, Exhibitor (#311)
Margaret Eldridge, Speaker
"Making an RFP A-OK"
tinyurl.com/rrc2011

Carolina Recycling Association Trade Show and Conference

North Charleston, SC
March 29-April 1, 2011

Michelle Minstrell, Speaker
"National Recycling Coalition Update"
cra2011.org

Environment Virginia Symposium

Lexington, VA
April 5-7, 2011

Bob Brickner, Speaker
"Alexandria/Arlington Waste-to-Energy Facility"
tinyurl.com/gbbvmi

United States Clean Heat & Power Association Spring Forum

Washington, DC
May 5-6, 2011

Harvey Gershman, Speaker
"Waste as a Fuel for CHP; Opportunities and Technologies"
uschpa.org

Waste Expo

Dallas, TX
May 9-11, 2011

Harvey Gershman, Speaker
"The Latest and Greatest on the Resurgence of Waste-To-Energy and Conversion Technologies"
wasteexpo.com

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GBB's Research on Waste-to-Energy Referenced in *The Economist*

GBB's extensive research on waste-to-energy and conversion technologies was referenced in a February 3, 2011 article, entitled "Turning Garbage into Gas," in *The Economist*. The article is available at www.tinyurl.com/economistWTE

The following is a list of some informative presentations made by GBB President Harvey Gershman at key industry events and in articles written for leading industry publications. They can be downloaded at: www.gbbinc.com/gbbwte.html

- **"Partnerships with Waste Management Businesses"**
Presentation at Municipal Solid Waste to Biofuels (February 2011)
- **"The Status of Waste-to-Energy and Conversion Technologies"**
Presentation at Municipal Waste Management Association Summit (Sept. 2010)
- **"The Resurgence of Waste-to-Energy and Conversion Technologies: Where's the Risk?"**
Article in WasteAdvantage (December 2010)
- **"Fuel for the Fire - A Renewable Energy Push Could Spark Demand for Refuse-Derived Fuel"**
Article in WasteAge (March 2010)

GBB Presents: Client Facility Longevity Awards

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Pittsfield Resource Recovery Facility – Pittsfield, MA

As the first of its kind in 1979, this facility in Massachusetts addressed one of the most challenging issues faced by the City of Pittsfield at the time. With insufficient landfill capacity for the increasing need for solid waste disposal, the City decided that the best long-term solution should ultimately rely on Enercon Systems' mass burning technology. The system consisted of a modular waste-to-energy (WTE) plant designed to produce steam for sale to a nearby private business. With a capacity of processing 240 tons of solid waste per day, the facility started operating in 1981, and is currently owned and operated by Covanta Energy. After almost 30 years, it still operates 24/7, producing 68,000 pounds of steam per hour. The steam is sold to Crane & Co., Inc., which manufactures the paper on which U.S. currency is printed. The Pittsfield facility experienced community skepticism at first, but has proven that the Enercon technology is reliable and can meet environmental regulations. Moreover, this facility has helped to shape the WTE concept, opening the door to innovative and reliable technologies in the waste management field.



GBB is proud of its role in helping make these projects happen. Case studies providing an overview of the needs at the time implemented, the selected solutions, current status of the facilities, and GBB's specific role are available at:

www.gbbinc.com/projects/pittsfield.shtml and
www.gbbinc.com/projects/springfield.shtml

Virgin Islands Waste Management Authority Allocates \$117.9M to Solid Waste Management Plan and Moves Forward with New Transfer Station/Baling Operation GBB Assisted with Procurement of Construction, Operating Services, and Related Equipment

On February 18, 2011, the Virgin Islands Waste Management Authority (VIWMA) Board of Directors approved the 2011-2015 Capital Improvement Program, which allocates \$117.9 million to implementing the Solid Waste Management Plan. A few months earlier, the VIWMA had issued a notice to proceed to Sanitas Partners V.I. for the contract to design, build, and operate a solid waste transfer station with baling system on St. Croix adjacent to the existing Anguilla Landfill. This will bring the Anguilla Landfill one step closer to closure after the new transfer station is fully operational.

GBB, as a subcontractor to the Maguire Group, Inc., assisted the VIWMA in the fast-tracked procurement that led to the contract. GBB's services included exploration of disposal options and costs during the three-year interim period before the new waste-to-energy project proposed to serve St. Croix is operational; scoping the transfer station needs and concept layout; researching selected development issues; preparing a questionnaire for potential contractors; briefing the Authority Board on the proposed project; drafting the request for proposals (RFP) to solicit potential proposers who could offer the needed services; conducting a pre-proposal conference; evaluating proposals and assisting with contract negotiations; and advising VIWMA throughout the process.

GBB also assisted with the related procurement of a portable shredder to be installed at the new transfer station.



"The shredder procurement was on a near-parallel track with the transfer station procurement, as the shredder system with ancillary equipment will be supplied and tested in the new transfer station by a separate contractor," noted Bob Brickner, GBB Executive Vice President, "This will require close coordination with Sanitas Partners V.I., which was charged with building and operating the transfer station and also providing and operating the baling and bale-wrapping equipment supplied through this procurement."

The portable shredding system will be used to process oversized bulky waste, certain construction waste and demolition debris, brush, and yard waste at the new transfer station. It will also be used at certain off-site locations.



This will bring the Anguilla Landfill one step closer to closure after the new transfer station is fully operational.

Conventions & Tradeshows:

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North American Waste-to-Energy Conference

Lancaster, PA
May 16-18, 2011

GBB, Exhibitor (#115)
Harvey Gershman, Speaker
"The Latest Updates on Waste-to-Energy and Conversion Technologies; Plus Projects Under Development"

Bob Brickner, Speaker
"Behind the Scenes: Sneak Peak at Procurement of Innovative Recycling & Waste-to-Fuel Conversion System Expected to Yield 80% Diversion"
nawtec.org

Waste Conversion Technology Conference

Philadelphia, PA
June 8-9, 2011

Harvey Gershman, Speaker
"The Latest and Greatest on Waste-to-Energy and Conversion Technologies Including Projects Currently Under Development"
tinyurl.com/wasteusa

Maryland Recycling Network / SWANA Mid-Atlantic Conference

Linthicum, MD
June 16-17, 2011

Harvey Gershman, Speaker
"Waste Management and Recycling in Maryland: Where are we now and where can we go?"
tinyurl.com/mrnswana

Visit the conference / tradeshow section of our Website for a continuously updated list of events!

Recent GBB Assignments

In the past few months, GBB has been selected for several new assignments, including:

- **Waste-to-Fuel Study**
City of Plano, TX
- **Department of Utilities Solid Waste Division Audit (GBB to evaluate solid waste component)**
City of Sacramento, CA
(as subcontractor to Public Financial Management, Inc.)
- **Implementation of TourSolver™ Route Optimization Software**
City of Wilmington, DE
- **Consulting Services to Manage Construction Waste & Demolition Debris Recycling**
Fauquier County, VA
- **Development of Local Solid Waste Management Plan**
Rockland County Solid Waste Management Authority, NY
(as subcontractor to Cornerstone Environmental Group, LLC.)

**We appreciate
the opportunity
to assist
these clients
with their needs.**



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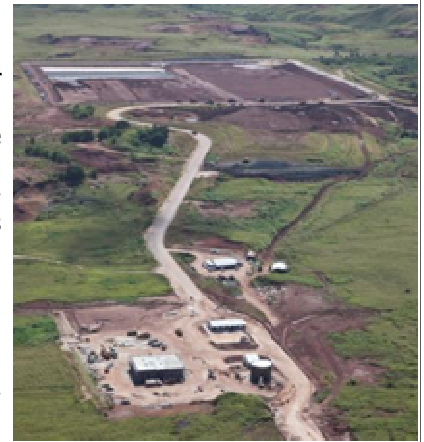
Updates from the Guam Receiver

In a Court Order dated March 17, 2008, U.S. District Court Judge Frances M. Tydingco-Gatewood appointed GBB to be Receiver with full responsibility for bringing the Guam Solid Waste Management Division into compliance with the 2004 Consent Decree for violation of the Clean Water Act. The latest information about the receivership is available at: www.GuamSolidWasteReceiver.org



Layon Landfill Construction Advancing for Summer 2011 Opening

The target for the opening of the Layon Landfill is summer 2011, and construction progress is on schedule. As of late February 2011, the liner installation was nearly complete and the soil protection layer and leachate collection and removal system pumps and tanks were being installed. The first of two new scales was in place, and the administration building was nearing completion. Additionally, the mechanical building was being fitted out with all electrical/mechanical systems, including an oil/water separator and new 12,000-gallon fuel storage tank. The emergency power was in place, and the new 200,000-gallon water storage tank was also complete.



Construction of the new 3.5-mile access road and all utilities was nearing completion, with paving to commence in March 2011.

Quarterly Report

On December 9, 2010, the Receiver submitted its tenth Quarterly Report to the U.S. District Court of Guam. View the complete report at www.guamsolidwastereceiver.org/documents-QR120910.html

Curbside Recycling Pilot Project Rolled Out

In late 2010, the Solid Waste Management Division (SWMD) rolled out a curbside recycling pilot project for 1,000 customer households; each received a new 95-gallon wheeled recycling cart with a green lid and a radio-frequency identification (RFID) tag that enables SWMD to better track the use of the cart. The pilot project will determine the feasibility of implementing residential curbside recycling collection services throughout Guam. The SWMD will evaluate the success of the year-long project by assessing the level of participation in recycling, the quantity and quality of the materials collected, and the cost of the program, less any revenue from the sale of the recyclables. The SWMD will also evaluate the costs and results of three potential collection schedules: weekly collection, every other week collection, and monthly collection.

