

GBB Waste Outlook

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GBB Article

Scavenger Hunt

Recycling Today article by Bob Brickner and Mike Czuprenski

The May edition of Recycling Today features an article by Bob Brickner, GBB Executive Vice President, and Mike Czuprenski, Operations Manager for the Southeastern Oakland County Resource Recovery Authority (SOCRRA), on the economic impact of scavenging on SOCRRA.

View article via: gbvinc.com/scavenger

U.S. Virgin Islands Government Signs Historic Agreement to Develop Territory's First Alternative Energy Facilities GBB Assisted with Due Diligence and Negotiations for \$440M Projects

Over the past few months, GBB provided expertise, as a subcontractor to the Maguire Group, to the Virgin Islands Waste Management Authority (VIWMA) with due diligence review of waste-to-energy proposals and assistance in negotiations for Solid Waste Management Service Contracts for St. Thomas and St. Croix.



As a result, on August 10, 2009, Governor John P. deJongh, Jr. announced that the Virgin Islands Water and Power Authority (WAPA) had just signed two 20-year Power Purchase Agreements, and the VIWMA had signed two 20-year Solid Waste Management Services Agreements with affiliates of Denver-based Alpine Energy Group, LLC to build, own, and operate two alternative energy

facilities that will serve the residents of St. Croix, St. John, and St. Thomas. The alternative energy facilities, to be built on St. Croix and St. Thomas, have a projected cost of \$440 million and will convert an estimated 146,000 tons per year of municipal solid waste into refuse-derived fuel (RDF) using WasteAway Services® technology, which will be combined with petroleum coke as fuel in fluidized bed combustion facilities to generate steam and electric power.

"This procurement is a significant achievement for the U.S. Virgin Islands, and when the projects are fully implemented, they will allow the Territory to reduce its dependence on oil, recover the energy value and certain recyclable materials from its municipal solid waste, and divert this waste from landfill," said Bob Brickner, GBB

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Maryland Clean Energy Center Launched to Transform the State's Energy Economy GBB Assisting in Selecting Private Developer for Annapolis Renewable Energy Park

Recognizing the need for a coordinated approach to building a strong clean energy economy in Maryland, state lawmakers passed legislation establishing the Maryland Clean Energy Center (MCEC) during the 2008 Maryland General Assembly session. The MCEC – the first in the region – will be headquartered in Montgomery County at the Camille Kendall Academic Center at the University of Maryland, the Universities at Shady Grove campus. Its purpose is to promote clean energy economic development and jobs in the state; encourage deployment of clean energy technologies across Maryland; assist newly developed technologies

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Conventions & Tradeshows:

GBB will be present at the following industry events.

US Composting Council Conference

Orlando, FL
January 24-27, 2010
Exhibitor
Michelle Minstrell, Speaker
"Composting at a Religious Facility"
compostingcouncil.org/conference

Lorman Education Services Webinar

January 25, 2010
Bob Brickner, Presenter
"Opportunities for Recycling Construction Waste and Demolition Debris"
lorman.com

National Demolition Association Convention

Las Vegas, NV
March 21-23, 2010
Exhibitor
demolitionassociation.com

Engineering Society of Detroit Solid Waste Technical Conference

Detroit, MI
March 24, 2010
Harvey Gershman, Speaker
"Future of Waste Management in the U.S."
esd.org

C&D World

Las Vegas, NV
March 28-30, 2010
Exhibitor (Booth #615)
cdrecycling.org/events

Waste Expo

Atlanta, GA
May 4-6, 2010
Harvey Gershman, Speaker
"The Resurgence of Waste-to-Energy and Conversion Technologies"
Chace Anderson, Speaker
"What is Zero Waste?"
wasteexpo.com

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

Letters to President Obama

Earlier this year, GBB President Harvey Gershman sent letters to President Obama on issues important to both the country and the solid waste management industry. Both letters are on GBB's website:

Waste-to-Energy and Renewable Energy

Thoughts on the inclusion of Waste-to-Energy facilities in the definition of "renewable energy."

www.gbbinc.com/news/WTE-letter-president-obama.htm

Jump Starting a U.S.-based Recycling Industry

Thoughts on the untapped opportunities for significant job creation in the solid waste/recycling field, and the role that economic incentives might play in creating employment in this industry.

www.gbbinc.com/news/letter-president-elect-obama.htm

U.S Virgin Islands Government Signs Historic Agreement to Develop Territory's First Alternative Energy Facilities

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Executive Vice President. "These are sustainable projects that will help to provide long-term cost stability for electric power and solid waste management in the Territory," noted Tim Bratton, GBB Senior Vice President.

GBB helped to evaluate the projects,

advising VIWMA on the needs and issues of the projects, and provided negotiations support relative to technical and business elements of the service contracts. The projects will provide 33 MW of electric power to St. Thomas and St. John and 16 MW of electric power to St. Croix. Construction is expected to start in spring 2010 with an anticipated completion date during the fourth quarter of 2012.

Maryland Clean Energy Center Launched to Transform the State's Energy Economy

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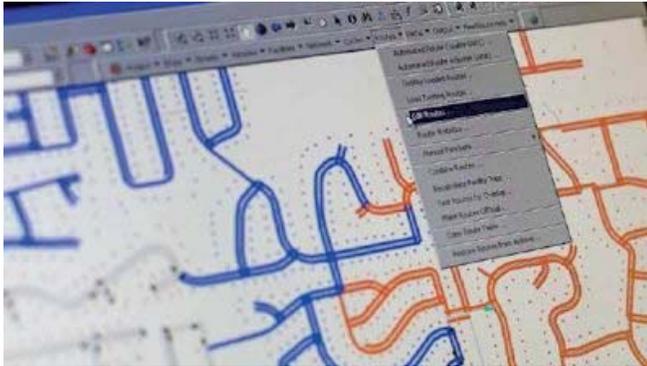
with pilot projects; collect, analyze and disseminate industry data; and provide outreach and technical support to further the clean energy industry in Maryland. The MCEC's mission is to transform the energy economy in the State of Maryland by dramatically increasing the number of clean energy related technical innovations, entrepreneurial businesses, jobs and consumer adoption of products and services.

In addition, the City of Annapolis has partnered with Montgomery County to offer access and free use of its proposed 500-acre Annapolis Renewable Energy Park (AREP). The AREP, which will become part of the MCEC, will be a public-private partnership demonstrating the commercial use of several renewable energy technologies, including solar, bio-

mass conversion and methane gas recovery from two closed landfills on site. In addition to commercialized energy projects, the AREP will be a demonstration site for a wide variety of technologies, potentially including geothermal, energy conservation strategies, microhydro, wind power, biodiesel and other emerging energy solutions. A private developer will design, build, finance and operate the projects. The AREP will also house educational programs, conferences and seminars, and training opportunities for local, regional and national groups.

GBB is assisting the City of Annapolis and the Northeast Maryland Waste Disposal Authority in selecting a private developer for the AREP, negotiating a development agreement for the site and implementing the various energy projects to be included in the park.

San Antonio, TX Selects GBB's FleetRoute™ Collection Route Optimization Solution Web-based Routing Software to Be Deployed in Time for Transition to Automated Collection



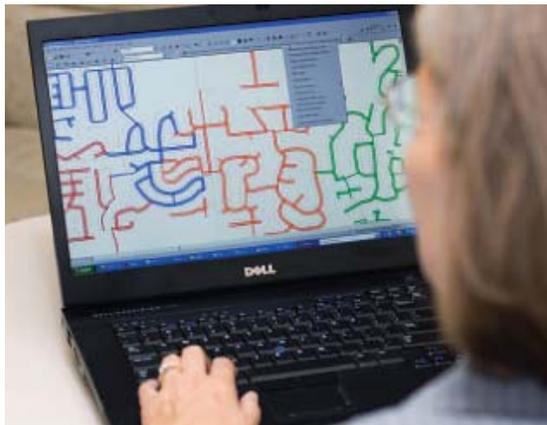
that have been optimized right off the bat," said Bob Brickner, Executive Vice President of GBB. "Reaping the benefits of increased productivity and reduced operating expenses, while improving services to citizens, are what all cities look for in the current economy. FleetRoute™ will be a key component in providing that to the City."

The City of San Antonio (City), TX, has selected FleetRoute™ as its hosted collection route optimization solution. As the City is in the process of converting manual collection routes to automated collection routes, it is also being proactive by seeking to maximize collection efficiencies, reduce operating costs, and design balanced collection routes along with the introduction of the new fleet. GBB, along with technology partner C2Logix and San Antonio-based Data Transfer Solutions, LLC, will set up the City's data in FleetRoute™ and provide hands-on training/workshop to enable City staff to conduct the routing in-house through a web-based interface.

As described by David W. McCary, Director of the City's Solid Waste Management Department: "We are excited about our routing software opportunity with FleetRoute™. We are currently completing the final phase of our conversion to an automated waste collection system, so it seemed only natural to continue our efficiency momentum by incorporating a route optimization solution. As routes are reviewed and optimized, we believe there will be benefits for both our customers and employees."

"We look forward to working closely with the City so their success with automated collection may be continued with routes

The Solid Waste Management Department of the City provides garbage, recycling, and brush collection services to approximately 340,000 residential customers residing within the 512 square mile City limits. It is among the largest cities providing solid waste collection by City crews. San Antonio, the Alamo City, is often regarded as the Heart of Texas for its illustrious past and its cosmopolitan present, which have come to symbolize the rich heritage of the state. One of the nation's largest military centers, it has a population of over 1.3 million, making it the second largest city in the state of Texas and the seventh largest city in the United States. It was the fourth fastest-growing large city in the nation from 2000-2006 and the fifth fastest-growing from 2007 to 2008.



Recent GBB Assignments

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

- **FleetRoute™ Route Optimization Software**
City of San Antonio, TX
- **Procurement Assistance for Management of Solid Waste Disposal Facilities**
New Hanover County, NC
- **Assistance with Alternative Disposal Technologies**
Prince William County, VA
- **Evaluating the Potential of Waste Processing Technologies**
Rhode Island Resource Recovery Corporation
- **Review of Additional Energy Recovery Facility Procurement Plans**
Solid Waste Authority of Palm Beach County, FL (as subcontractor of R.C.T. Engineering, Inc.)
- **Collection Services Alternatives Analysis**
Traverse City, MI

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

Two New GBB Vice Presidents

GBB is pleased to announce two additions to its senior management team:

Christopher A. Lund, who joined the firm as Senior Project Engineer in April 2008, has been promoted to Vice President. He will continue to be closely involved with the engineering, construction and management aspects of the Guam Receivership assignment and, in his new role as Vice President, he will have increased responsibilities using his diversified engineering background to contribute to the firm's expansion.



Thomas P. Reardon has joined the firm as Vice President. Mr. Reardon has 25 years of business management experience that includes diverse assignments with increasing responsibility within engineering organizations. He has extensive Waste-to-Energy (WTE) experience and expertise in project management, contract and subcontract management, project control, and procedure development and implementation. For over 10 years, he was Business Manager for Covanta Projects, Inc., where he was responsible for managing all financial, business, administration and operational aspects of Covanta's 975 ton per day Alexandria / Arlington and 3,000 ton per day Fairfax County WTE facilities in Virginia.



Visit GBB's Website for the press releases and more information on their backgrounds.



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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



Letter of Intent Executed with Military

The Court, in its Order of July 15, 2009, directed that the Government of Guam "use its best efforts to execute the Letter of Intent with the military by close of business on July 17, 2009." Governor Camacho and Attorney General Limtiaco met with the Receiver on July 17, 2009, and executed the Letter of Intent. Given the transition in Navy leadership that occurred during that week, it was July 27, 2009, when the Navy completed execution of the document. As a potential customer of the new system, the Military's participation to the long-term stability of the System's rates is significant.

Important Layon Landfill Milestone: Letter of Technical Adequacy from GEPA

This Final Design permit package was completed on August 5, 2009, and is the primary supporting document of the Solid Waste Facility Permit package, providing all the systems for Cells 1 and 2 at the facility. On August 6, 2009, the Guam Environmental Protection Agency (GEPA) and U.S. EPA's (EPA) deemed this design package to be technically adequate because it addressed the issues and concerns cited in the March 19, 2009 GEPA comment letter and subsequent GEPA comments.

Layon Landfill Access Roads and Utilities

On September 28, 2009, the Receiver announced an intent to award a contract to Guam-based Core Tech International for Layon Landfill access road construction, upgrades to area roads and utility improvements. The contract, in the amount of \$26.8 million, provides for the following work: 2.0 miles of a new two-lane undivided, secondary roadway with 12-foot wide driving lanes; 1.3 miles of improvements to Dandan Road for safety and load capacity; 6.4 miles of sewer lines with two pump stations; power, water, and cable utility improvements along Dandan Road and the new access road; and turning lane improvements along Route 4 at the intersection with Dandan Road.

Construction of Landfill Operations Road and Earthwork Activities

During the quarter ending September 30, 2009, progress in the construction of the landfill operations road and earthwork was significantly slowed due to wet weather conditions. As of September 30, the contractor was eight days beyond the 210-day contract period. Based primarily on delays due to adverse weather conditions, a revised completion date of November 25, 2009 can be justified under the contract. The contractor, however, believes that it may be as late as early February in 2010 when their work is completed.

Customer Service System Pilot

The SWMD initiated a pilot test of the customer service system, registration process, and cart delivery for the Village of Umatac, beginning Monday, September 21, 2009. The purpose of the pilot program was to address any problems that might occur before proceeding with the full registration drive.



Quarterly Report

On October 21, 2009, the Receiver submitted its sixth Quarterly Report to the U.S. District Court of Guam. The complete Report is available in the documents section of www.GuamSolidWasteReceiver.org