



Homeland
Security

CG Yard Landfill Gas Project 07 Sept 2007

United States
Coast Guard



Outline

§Overview of BAMF Program

§BAMF Structure

§Overview of Agreement with City

§System Overview



Assistant Commandant for
Engineering and Logistics (CG-4)



BAMF Program



- **BAMF Super ESPC LFG Project**
- **Indefinite Delivery Indefinite Quantity (IDIQ) Energy Savings Performance Contracts (ESPC) awarded on behalf of the DOE Federal Energy Management Program**
- **Take advantage of private sector capital to fund the co-generation system.**
- **Does not required Congressional appropriations to fund the project**
- **Partnering with prequalified, competitively selected energy services companies.**
- **Expedited contracting process**





BAMF Program



- **ESPCs were reauthorized through 2016 by the Energy Policy Act of 2005**
- **White House Directs Agencies to Submit ESPC and UESC Assessments**
- **Agencies are required to inform the U.S. Department of Energy about their initial assessment of ESPC and UESC opportunities by Sept. 18, 2007.**
- **www1.eere.energy.gov/femp/financing/superespcs.html**





- U. S. Coast Guard Yard received an unsolicited proposal from Exelon Energy Service Company to study the viability of a Super ESPC BAMF for our site.
- Two studies were completed
 - Wood Waste to Steam co-generation
 - Landfill gas co-generation
- No cost or obligation to the Coast Guard
- Cost Guard sends the ESCO an RFP specifying Terms and Conditions (AMERSCO)
- Limited Notice of Intent (NOI) sent to ESCO
- Limited Detailed energy Survey (DES)





Partnering with the City of Baltimore



- **Although the City of Baltimore has received several unsolicited proposals from outside industry, they prefer to deal directly with the Coast Guard in support of Homeland Security via an intergovernmental agreement.**
- **A MOU has been signed that proposes to pay the city for the rights to the landfill gas as a renewable energy source for the Coast Guard Yard**
- **The MOU is authorized under the provisions of Federal law and Executive order and Far legislation**
- **Win-Win for the City and the Coast Guard**





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Our BAMF Contract Structure

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- § **ESPC Contractor finances and builds the energy plant and delivery systems.**
- § **USCG receives electricity & steam from new energy plant.**
- § **USCG uses the energy savings to pay for plant and collection system over the contract term (estimated at 15 years).**
- § **At the end of the contract, USCG owns the plant.**



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Project Overview



The City of Baltimore's Quarantine Road Landfill is located within 1 mile from the CG Yard. The LFG will provide enough energy via a cogeneration plant to power the entire Yard for over 15 years. The generation of renewable energy at the CG Yard would satisfy the federal goal for the entire Dept of Homeland Security. (2.5% renewable energy)





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Aerial View of the Site



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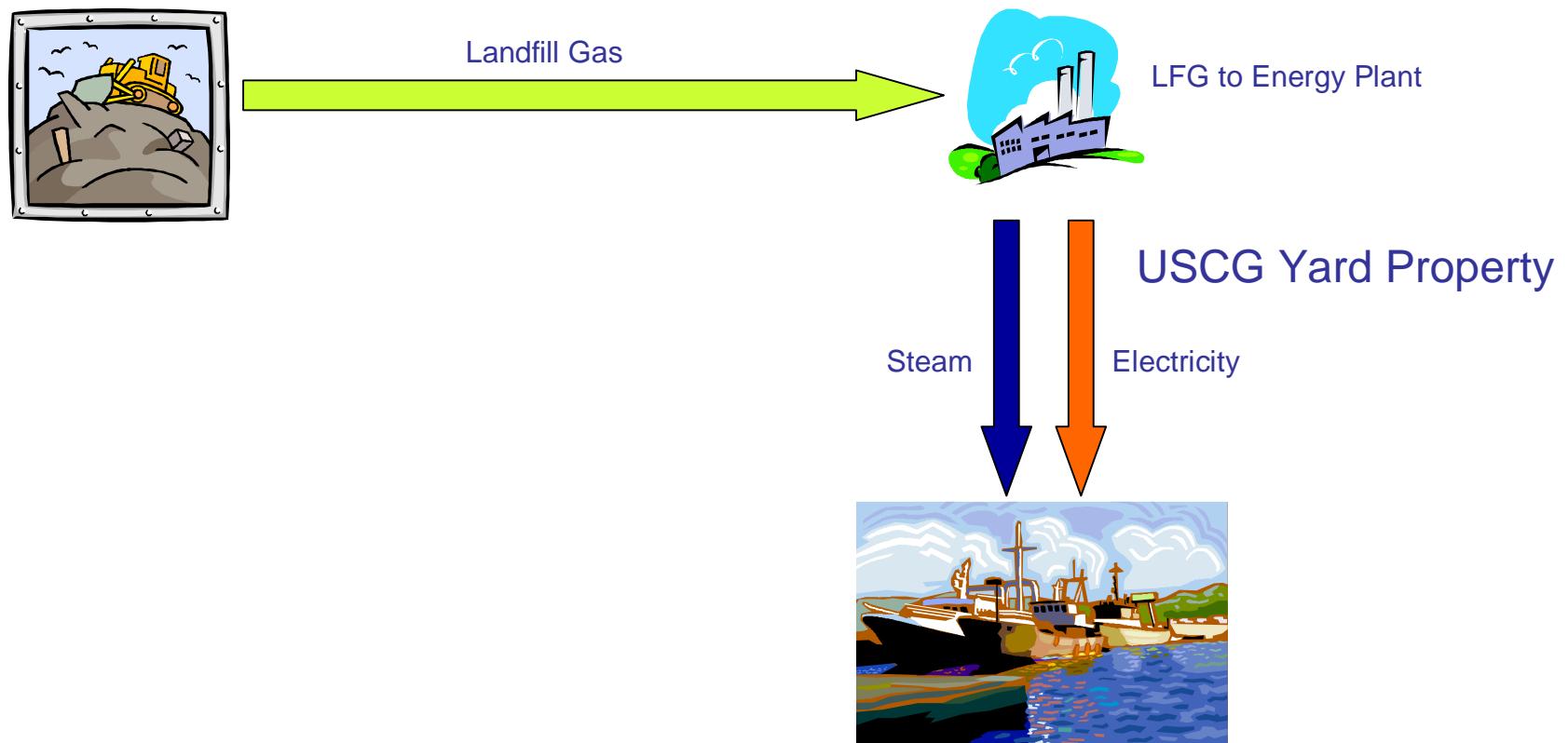


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LFG Project Overview



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Opportunities



- There are at least 600, and perhaps up to 1,700, additional landfills that may be good candidates for economical LFG-to-energy projects.





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