Coca-Cola’s Atlanta Landfill Gas Cogeneration Project

Richard Crowther – Coca-Cola
Where does Coca-Cola focus on Sustainability?

- ENERGY & CLIMATE
- SUSTAINABLE PACKAGING
- WATER STEWARDSHIP
Four Key Areas for Energy & Climate

Production Efficiency
Fleet Transportation
Product Delivery
Alternative Energy
Alternative energy

Fuel Cells
Bio-Fuels
Solar Power
Cogeneration
Project Overview

- **Project Description**
  - 6.525 MW combined heat and power plant using landfill gas from Hickory Ridge landfill
  - Electric and thermal energy used by Coca-Cola’s Atlanta Plant
  - Project includes:
    - Landfill gas processing
    - 6.0 mile dedicated pipeline
    - 3 Jenbacher J616 engines
    - Heat recovery steam generators
    - Steam turbine chiller

- **Project Schedule**
  - Construction start – 12/2010
  - Commercial operations – 3/2012

- **Key Project Partners**
  - Mas Energy
  - Republic Services
  - Atlanta Gas Light
  - GE Jenbacher
  - Veolia Energy N.A.
  - Crowder Construction
System Schematic

- Landfill Gas to Existing Flare
- Gas Compressor
- Cooling & Dehydration
- Siloxane Removal
- Polishing Bed
- Siloxane Bed Regen & Destruction Flare
- 1065 Ton Steam-Driven Chiller
- Chilled Water to Process, HVAC
- Steam to Process, HVAC
- 2.175 MW Gen-set
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- 11,400 lb/hour of 125 psig steam
- Electricity to Coca-Cola & Ga Power
- 6.0 mile Dedicated LFG pipeline to Trigeneration Plant