BIOGAS AS A VEHICLE FUEL

A CASE STUDY

Presented to

ENERGY VISION-CLIMATE SMART COMMUNITIES WEBINAR

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Disposal District

PRESENTATION OUTLINE

- EVOLUTION (GCCS)
  - CARBON REDUCTION
- PROJECT DEVELOPMENT
- CONSTRUCTION & INSTALLATION
- ONGOING MONITORING

BACKGROUND

ST LANDRY PARISH SOLID WASTE DISPOSAL DISTRICT

- HOME TO ZYDECO CAJUN MUSIC
- LEGISLATIVE ACT 1980
- SERVES 90,000 RESIDENTS
- GOVERNS ALL WASTE ACTIVITIES

BACKGROUND

ST LANDRY PARISH SANITARY LANDFILL

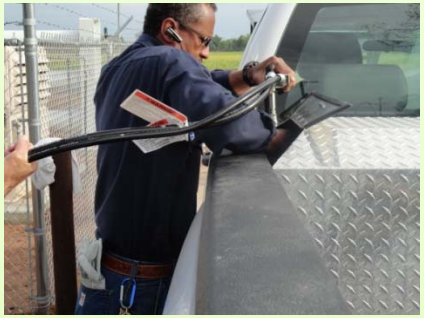
- TYPE II MSW PERMITTED 1986
- ACCEPTANCE RATE OF 400 TPD
- 3 MILLION TONS WASTE IN PLACE
- 300 scfm LANDFILL GAS

GCCS EVOLUTION

GAS COLLECTION AND CONTROL SYSTEM

- IN ANTICIPATION OF NSPS THRESHOLD
- VOLUNTARY CARBON INITIATIVE
- GCCS COMMISSIONED JAN 2009
- SELL CARBON CREDITS TO OFFSET COST

PROJECT DEVELOPMENT



- 4 PROPOSALS WERE REJECTED

COMMISSION PROCEEDED IN-HOUSE

- KEY FACTORS
  - UNDERSTAND ENVIRONMENTAL BENEFITS
  - DEVELOP FUNDING SOURCES
  - CONTROL AND STAFFING
  - ACCESS TO VEHICLES
  - QUALITY CONDITIONING TECHNOLOGY

CONSTRUCTION INSTALLATION

SITE WORK BEGAN IN OCTOBER 2011

EQUIPMENT ARRIVED FEB 2012

CONSTRUCTION INSTALLATION

INSTALLATION AND INTERCONNECTION MARCH 2012

COMMISSIONING

PLANT COMPLETION
APRIL 2012

ONLINE APRIL 2012

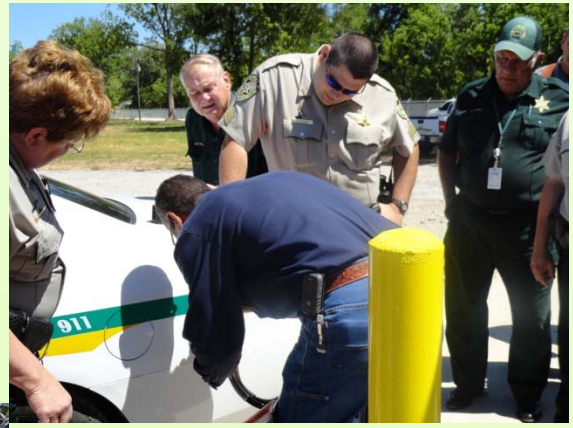
CONVERSIONS

15 VEHICLES

1 PASSENGER VAN

5 SEDANS

10 FLEET PU TRUCKS



BioCNG

St. Landry Parish
Solid Waste
St. Landry Parish
Sheriff
BioCNG CHARTER FLEET
April 2012

GOING FORWARD

- MONITOR CONSUMPTION
- TRACK OPERATING COST
- WORK TO EXPAND FLEET
- www.slpsolidwaste.org