

# GLENDALE LANDFILL GAS-TO-ENERGY PROJECT



# Glendale Project Highlights

- ❑ Operation began January 2010
- ❑ 2.8 megawatt biogas facility
- ❑ Two 20-cylinder engines
- ❑ Public-private partnership
- ❑ Generating electricity for 750 homes



# Glendale Project Highlights (cont'd)

- Legal agreements:
  - Gas rights and lease agreement with BAS
  - Sublease agreement between BAS and Glendale Energy
  - Power Purchase Agreement between Glendale Energy and APS
- Contract Term: 10 years
- Power Purchase Agreement Term: 20 years
- Total project construction cost: \$6 M

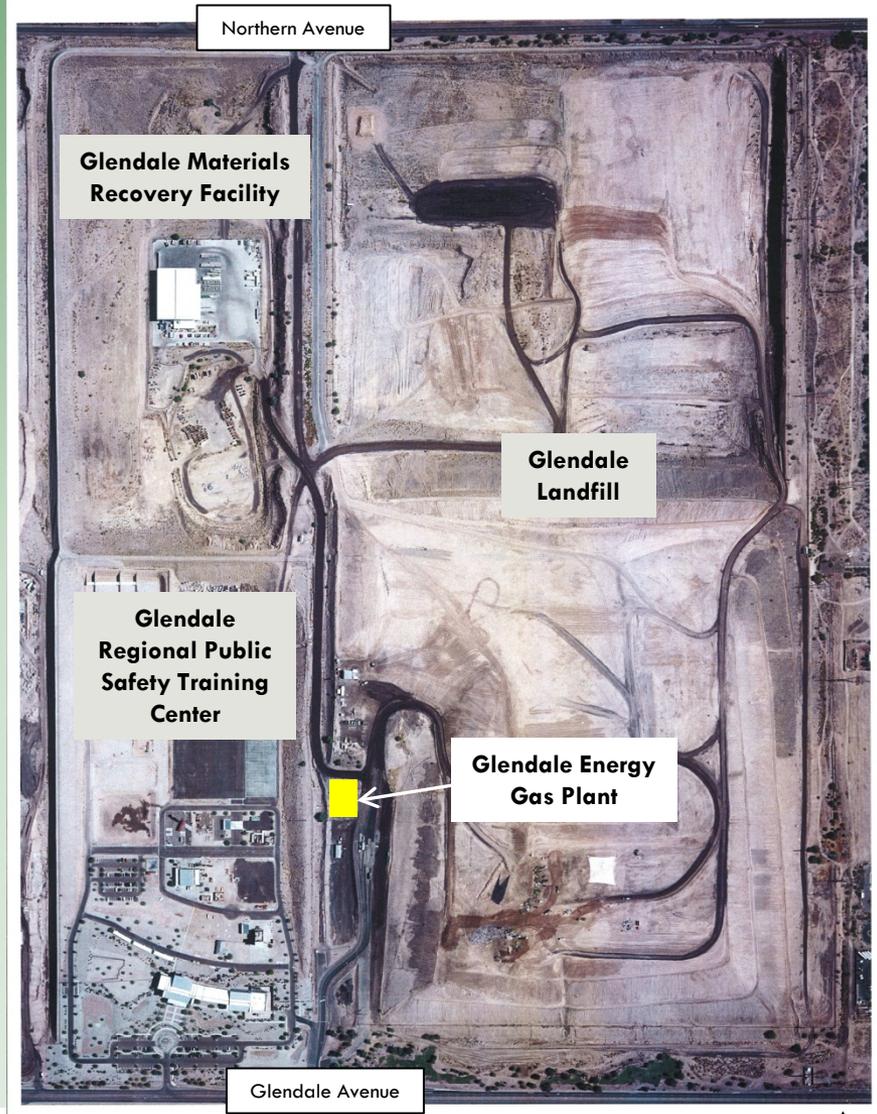
# Public Outreach Event

- “Lunch At The Landfill”
- Open house and ribbon cutting ceremony
- Tour of gas plant and bus tour of landfill site
- Over 500 citizens attended





# GLENDALE LANDFILL SITE MAP AND GAS PLANT LOCATION



# Virtual Gas Plant Tour

## Gas Collection System and Gas Plant Inlet



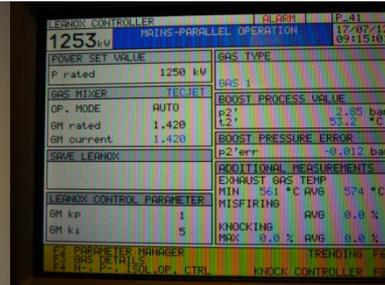
# Virtual Gas Plant Tour (cont'd)

## Inside the Engine Room



# Virtual Gas Plant Tour (cont'd)

## Inside the Facility Control Room



# Virtual Gas Plant Tour (cont'd)

Electrical Substation, Gas Flare, and Condensate Tank



# Benefits and Challenges

10

## □ Benefits

- Environmental
- Economical

## □ Operational Challenges

- Gas Condensate
- Gas Quantity and Quality
- Gas Production vs. Compliance Goals
- Siloxane Removal

# Contact Information

---

For more information on Landfill Gas-To-Energy Project:

- Frank Lomeli, Public Works Deputy Director  
623-930-2611  
[flomeli@glendaleaz.com](mailto:flomeli@glendaleaz.com)
- Christina Betz, Solid Waste Superintendent  
623-930-2659  
[cbetz@glendaleaz.com](mailto:cbetz@glendaleaz.com)

For more Information on general solid waste services in  
the City of Glendale visit website at:

[www.glendaleaz.com](http://www.glendaleaz.com)