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FreedomCAR & Vehicle Technologies Program

## Panel Discussion-LNG for Transportation

Jim Wegrzyn: BNL (moderator)

Jeff Cook: Acrion-LFG Gas Cleanup

B. Smackey: Mack Truck-LNG as Truck Fuel

Frank Mazanec: WM-California Experience

Bob Simkins: NJ EcoComplex-NJ Interest

Brian Guzzone: EPA-LMOP Activities



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## LNG Truck Fuel from Landfill Gas **FreedomCAR & Vehicle Technologies Program**

### *Objective*

To demonstrate regular scheduled operation on two refuse haulers with LNG from landfill gas using Acrion CO<sub>2</sub> Wash™ for gas cleanup

### *Project Information*

**Total Cost:** \$830K

- DOE: \$245K
- Industrial partner: \$585K

**Duration:** 05/1/04 – 04/30/05

**Project Lead:** BNL (J. Wegrzyn)

**Subcontractor:** Mack, Acrion

**Other Partners:** Waste Management, Chart, Air Products, NJ-EcoComplex



**Burlington County LNG Station**

### *Accomplishments*

- Continuous 3 month conversion of LFG to truck fuel grade LNG
- No cleanup or vehicle down time
- No siloxanes
- No premature engine wear



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## FreedomCAR & Vehicle Technologies Program

- LFG to LNG is both energy conservation and a renewable energy resource
- Price of diesel fuel
- Energy and Water Bill
- Addresses NGV Infrastructure Question
- Potential market; 300 landfill producing 20,000 gal-LNG per day (3 million diesel gallon equivalent per day)