

LEGO-V Renewable Natural Gas Station

Seneca Landfill



Seneca Landfill Video

<https://www.senecalandfill.com/videos>

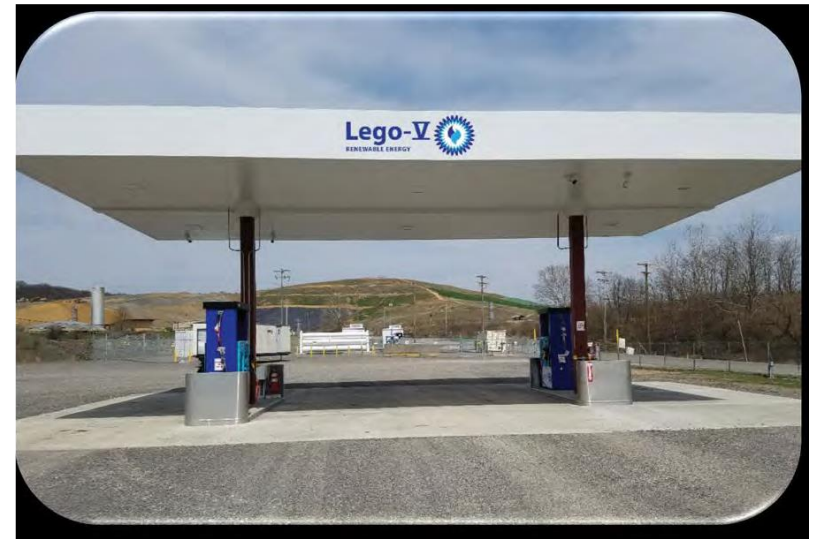


Seneca Landfill

- *2,500 cubic feet of landfill gas are extracted every minute.*
- *LEGO-V generates enough renewable energy to heat over 5,000 homes per year.*
- Since 2011, Seneca Landfill has converted landfill gases into enough green energy to heat over 40,000 homes in Western Pennsylvania.



LEGO-V





LEGO-V Video

<https://youtu.be/wKLfYWWR5hM>



LEGO-V Components

Site Controls

- Climate Control Connex Box
 - Electrical Room, PLC, Cameras, & Display Panel.
- Priority Panel Cabinet
 - Designed to direct the flow from the compressors to on-site storage banks & Dispensers.
- Flow Meter
 - Meters the volume of CNG



Connex Box Electrical Room



Gas Meter



Priority Panel Cabinet

LEGO-V Components (Continued)

Gas Dryer

- Dual Tower
- Desiccant filled
- 500 cfm



LEGO-V Components (Continued)

- Compressors

- Two (2) 250 hp units
- Compress gas from 125 psi to 5,000 psi
- Room for 3rd Compressor



LEGO-V Components (Continued)

- Gas Storage

- Two (2) Banks of three (3) vessels - 6 total vessels
- Each Vessel holds 12,000 CF of CNG at 5,000 psi
- Burst Protection: Designed to handle 2.25 times service pressure
- During hot days, gas expands & is less dense therefore, less energy
- CNG Garbage Truck holds approximately 9,000 CF of CNG



LEGO-V Components (Continued)

Dispensing

- Kraus Dual Hose
- High Pressure Dispensers
- High Flow/HEavy Duty Nozzles
- 5,000 CFM fill rate
- Credit Card / Fuel Card

Capabilities

- Virtual Pipeline Capabilities



LEGO-V

Additional Photos



Vogel CNG Trucks



- Vogel Holdings has over 90 CNG Trucks
- Gas tanks are 80 DGE (approx 350 gallons)
- Hold approx 9,000 CF of CNG at 4,000 psi

Vogel Companies



Questions

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David Smith

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