Virtual Pipeline Experience Application of LNG Solutions to Expand LDC Service

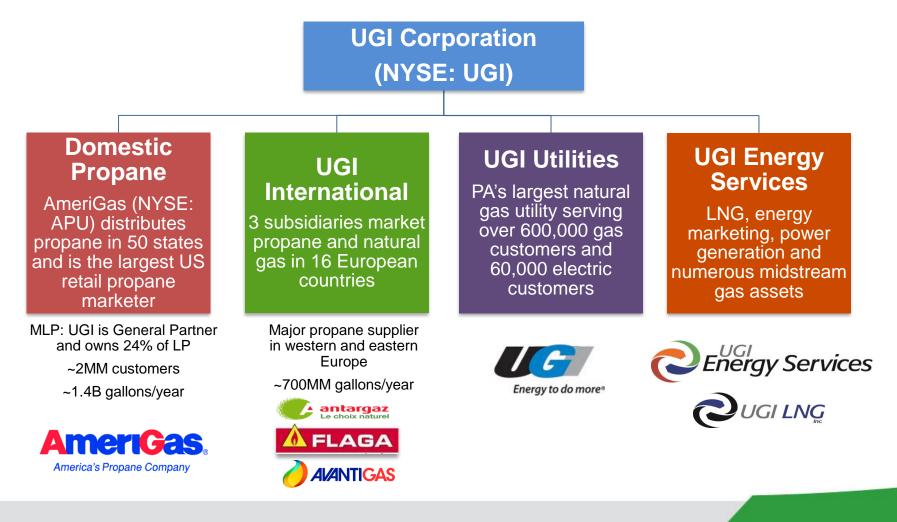
NECPUC Conference

June 5, 2017



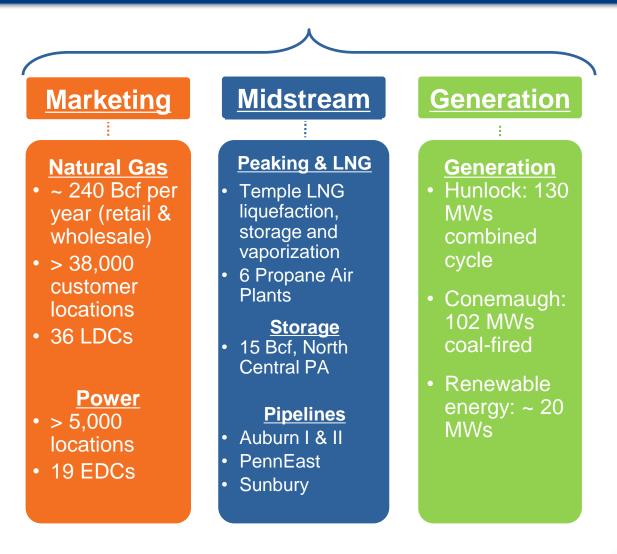


Founded in 1882, UGI Corporation (NYSE: UGI) is a Fortune 500 company with over \$10 billion in assets and \$7 billion in revenues. We are a distributor and marketer of energy products and services including natural gas, propane, and electricity.





UGI Energy Services has been marketing energy for over 20 years.





Through its subsidiary UGI LNG, Inc., UGIES owns and operates the Temple LNG facility near Reading, PA.

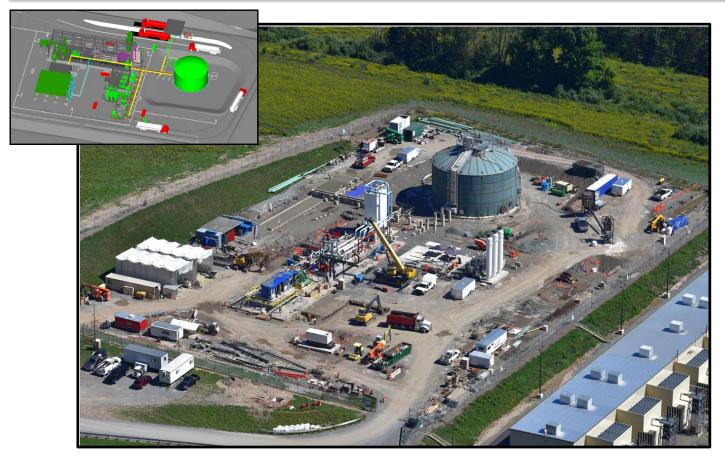


- Storage Capacity: 15 million gallons of LNG or about 1.25 Bcf
- Liquefaction Capacity: 10,000 Dth/day
- Vaporization Capacity: 205,000 Dth/day (capable of delivering into TETCO)
- Equipped with LNG tanker truck loading capability
- Receives natural gas via Texas Eastern Pipeline (TETCO)
- Regulated by the Federal Energy Regulatory Commission
- Owned and operated by UGI LNG, Inc.
- 100% of the capacity is contracted by UGI Energy Services





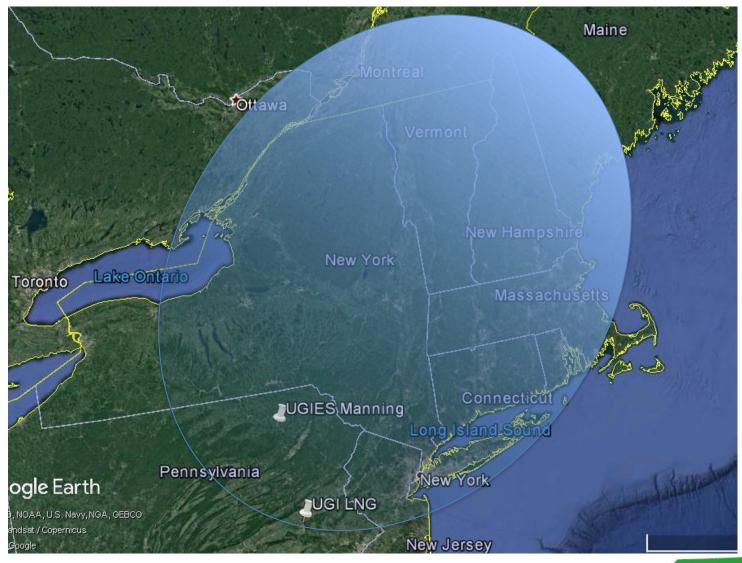
Supporting LNG Market: Manning Liquefaction Plant



- <u>Purpose</u>: Expand LNG capacity to serve Northeast LDCs and Non-Traditional markets
- <u>Scope</u>: 10,000 Dth/day nitrogen cycle with 500,000 gallon cryogenic storage tank
- <u>Status</u>: Target COD: 2nd Quarter 2017 being commissioned

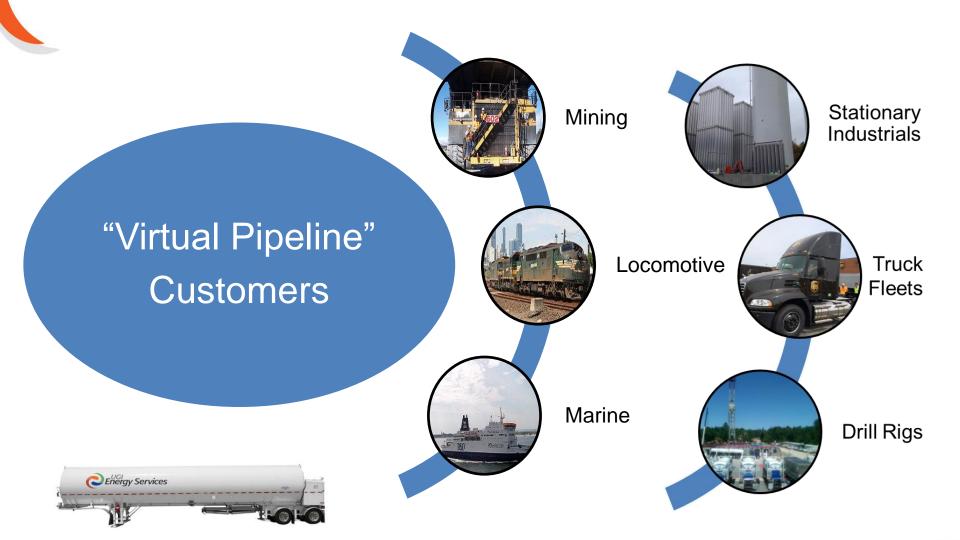


Traditionally Served Peaking Facilities in Northeast LDC and non-Utility Customers





Expanded LNG Customer Base

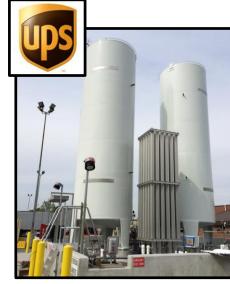




Permanent and Temporary Customer LNG Sites













Applying Industrial Experience to Isolated Communities

- "Beyond The Mains"
 - No access to LDC pipeline network
 - Long-standing established communities
 - New housing developments
- Desire for natural gas
 - o Environmental Sensitivities
 - Alternative to fuel oils & propane
 - o Economic Considerations
 - Fuel pricing expectations
 - Housing customer attitude





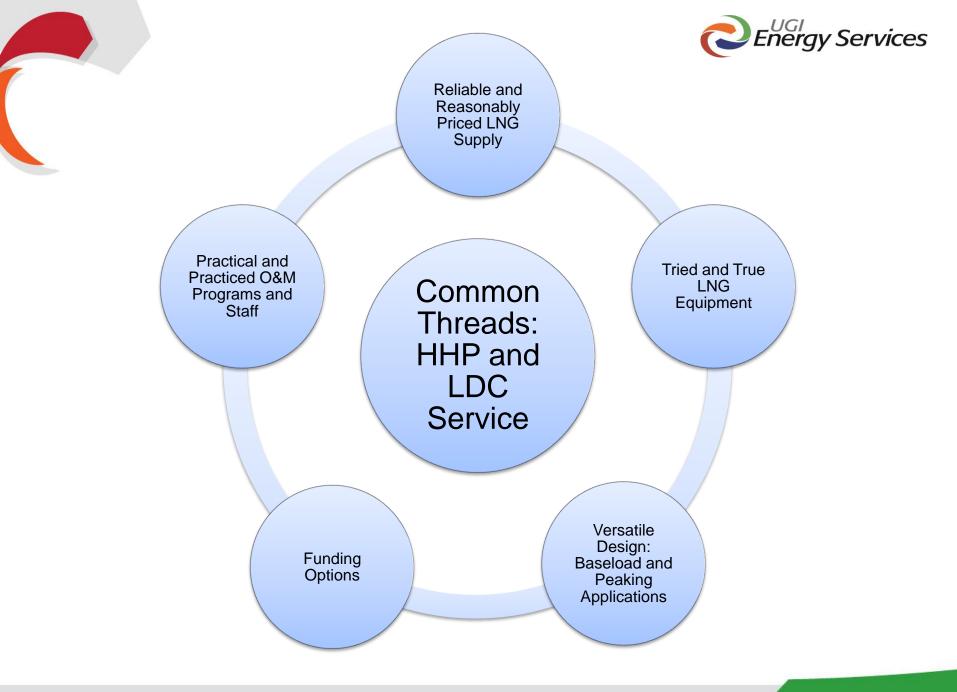


UGIES Experience – Isolated Community

- Northcentral PA
 - Rural area low population density
- No access to LDC P/L Network
- New development ~160 homes
- No interest in fuel oil
 - Simplified propane storage/delivery system



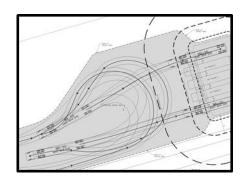


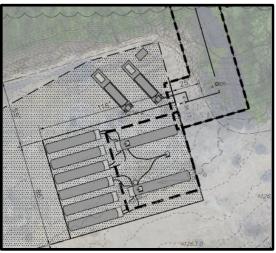




UGIES LDC Applications : Portable LNG Facilities Sustained and Peak Operations





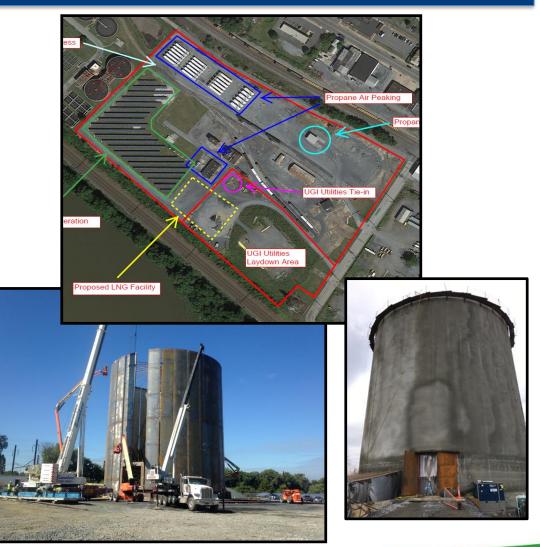






UGIES LDC Applications – Permanent LNG System Sustained and Peak Operations

- Large-scale LNG Storage and Vaporization Facilities
 - 2MM gallon Field-Erected Storage tank
 - 70,000 Dth per day Vaporization Capacity
 - Two Truck Off-Loading Racks
 - COD: 4Q 2017
- Sites under development in MidAtlantic and New England
 - Providing traditional peaking and supporting non-peaking services





UGIES Service Offering Traditional and Non-Traditional Customers

Fuel Supply

- Reserve capacity for <u>FIRM</u> supply service
- Multi-year Terms
- Transparent: Commodity Price & Non-Gas Costs
- Risk Management / Price Hedging Services

Transportation Logistics

- Provide a delivered product
- · Lower cost and enhanced reliability/flexibility
- Arrangements with multiple carriers

Technical Know-How

- Experienced process engineers and seasoned technical staff
- Excellent safety record and safety-focused culture

Infrastructure Development

- LNG System Design
- Land Development and Permitting
- Construction Management
- Operations and Maintenance Oversight







Thank you for your attention



www.ugienergyservices.com/lng www.ugicorp.com