

Natural Gas Interconnection of CHP Technologies

**Darin King
Major Account Manager
Columbia Gas of Ohio
June 27, 2017**

NiSource Gas Distribution (NGD)

COLUMBIA GAS OF MASSACHUSETTS

- Largest Gas Only LDC in Massachusetts
- ~300,000 Customers
- ~4,800 Miles of Pipe

COLUMBIA GAS OF OHIO

- Largest LDC in Ohio
- ~1.4 Million Customers
- ~20,000 Miles of Pipe

COLUMBIA GAS OF PENNSYLVANIA

- Third Largest LDC in Pennsylvania
- ~400,000+ Customers
- ~7,400 Miles of Pipe

NIPSCO GAS

- Largest LDC in Indiana
- ~800,000 Customers
- ~17,000 Miles of Pipe

COLUMBIA GAS OF MARYLAND

- Complementary to PA Operations
- ~33,000 Customers
- ~750 Miles of Pipe

COLUMBIA GAS OF KENTUCKY

- Second Largest Gas-Only LDC in Kentucky
- 140,000 Customers
- ~2,600 Miles of Pipe

COLUMBIA GAS OF VIRGINIA

- Third Largest LDC in Virginia
- ~250,000 Customers
- ~5,000 Miles of Pipe

Growing our customer base and business

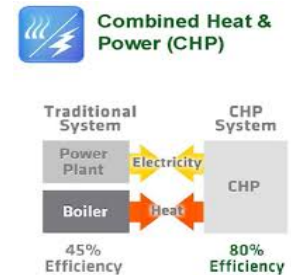
What We Will Discuss

- **Early Involvement**
- **Project site location**
- **Project natural gas load; cubic feet per hour & per year (or million BTU per hour & year)**
- **What is the nature of the gas load operations (i.e., continuous, intermittent)**
- **Required natural gas delivery pressure**
- **When is natural gas service desired; month & year**
- **Early Involvement!!!**



CHP Project Awareness – The Earlier the Better

- **Involve the Gas Company at the initial evaluation stages**
- **Generally takes several weeks or more to analyze the natural gas systems to provide preliminary project guidance (PCE)**
- **If project involves significant construction to serve CHP project, the total time line can be between one year upwards of three years**
- **Considerable activities involved in major gas pipeline construction projects**



Major Gas Facilities Construction Activities

- **Design the gas facilities**
- **Various state, local, and perhaps federal regulatory and permitting requirements**
- **Bidding of the project**
- **Acquisition of land easements and right of ways**
- **Actual construction of the project**



Whom to contact – Natural Gas Deregulation

- **Columbia New Business Team 800-440-6111**
- **Your Columbia Account Manager**
- **Your local Gas Utility Business Liaison**
- **Gas Deregulation & Gas Pricing**



Summary

Thank You