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Gas System Long-Term Plan

Information Session 12.19.23

Case Nos. 20-G-0131 & 23-G-0676

Logistics and Background

James Keating
Director, Gas Transformation and Planning

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Agenda

- Logistics and Background
- Introduction to Natural Gas Industry and Company Overview
- Customer Demographics, Usage Trends, Demand Forecasting
- Gas Supply Planning
- Gas Engineering
- Gas Operations
- Gas Planning
- Utility Emissions
- Demand Side Management
- Utility Thermal Energy Networks
- Q&A

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Meeting Logistics

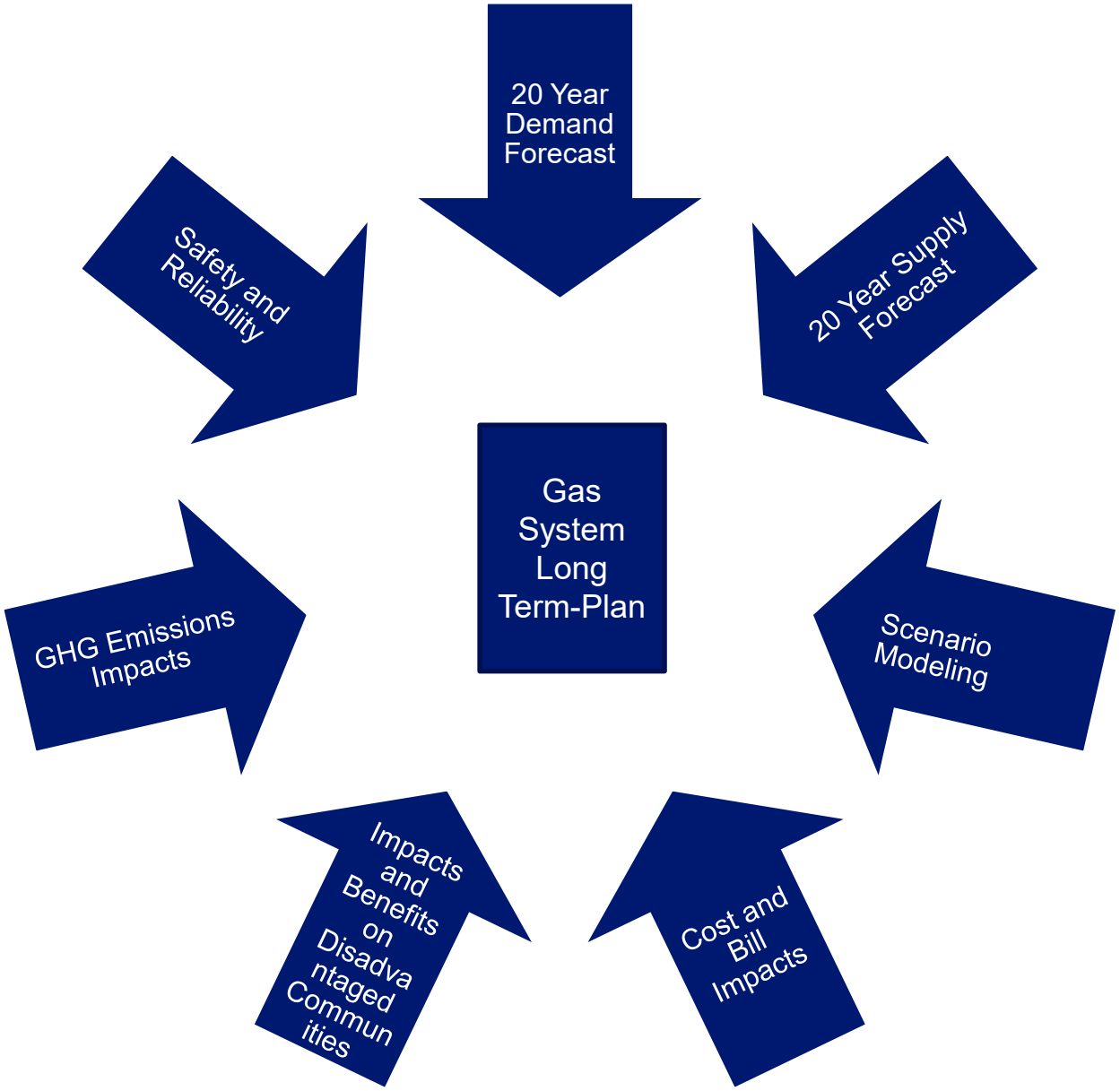
- Central Hudson Gas and Electric (CHG&E) is hosting this Information Session to share background information regarding the natural gas system. The aim of this afternoon's program is to enable stakeholders to effectively participate in the gas system long-term planning process.

- A Q&A will follow each presentation to address matters related to the material presented.

- Please use the "raise hand" feature of the meeting platform so that we know when there are questions to address (We will answer questions in the order they are received).

Gas Planning Proceeding

Adopts modernized long-term natural gas planning procedures to ensure that the State, customers, stakeholders, and all other interested entities can understand and engage in the future of natural gas infrastructure in the New York State.



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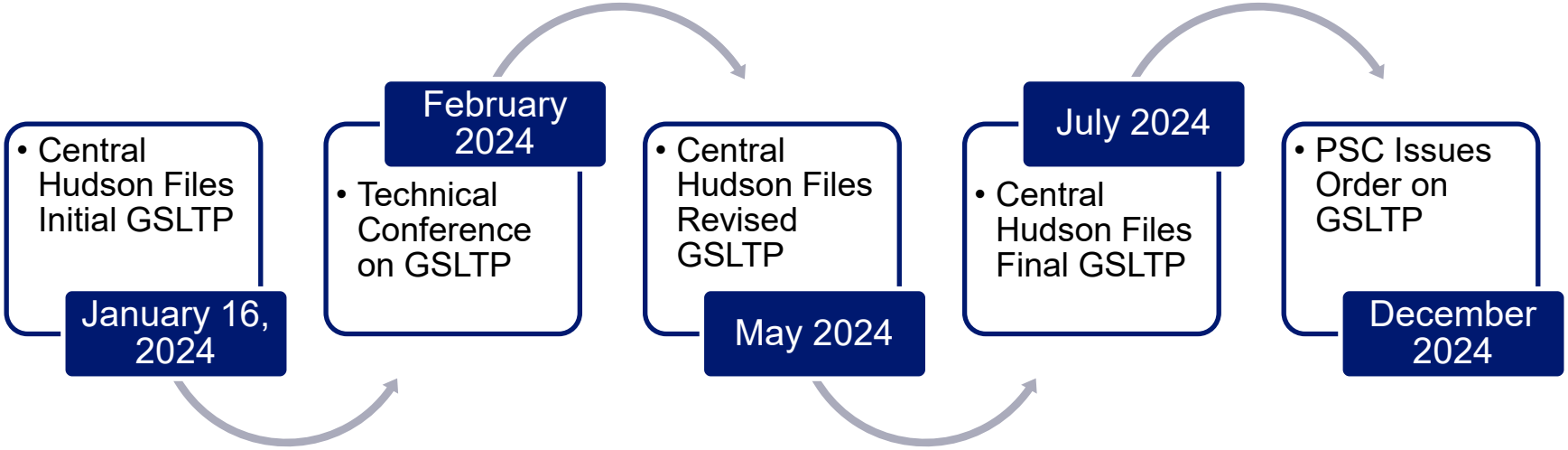
Process



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Central Hudson & Introduction to Natural Gas Industry

Eric Kiszkiel
Vice President, Gas Operations and Engineering

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About Central Hudson Gas & Electric Corp.

- Territory – 2,600 Square Miles
- Located in the Hudson Valley
  - Serve 8 Counties along Hudson River North of NYC to Albany Capital District
- 84,000 Gas Customers
- 309,000 Electric Customers

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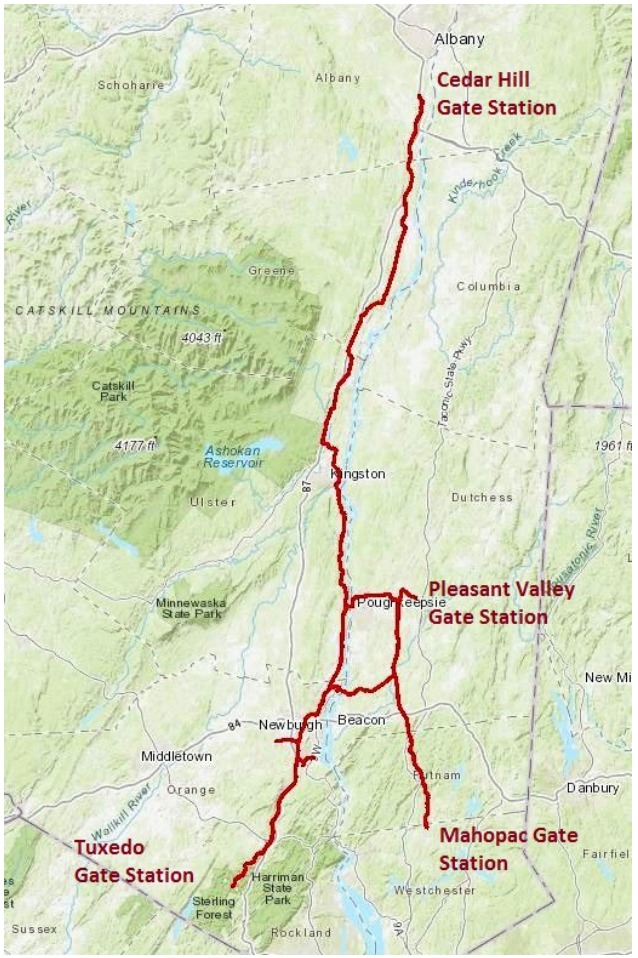
Central Hudson Transmissions System

- Served by 4 Interstate Pipelines
- 4 Gate Stations
- 162 Miles Transmission Pipe – Pressure 200-750 psig



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CH Pipeline System Characteristics

Miles of Transmission Main	162.37
Miles of Distribution Main	1318.7
Number of Gas Services	66,186
Number of Gate Stations	4
Number of Regulator Stations	136

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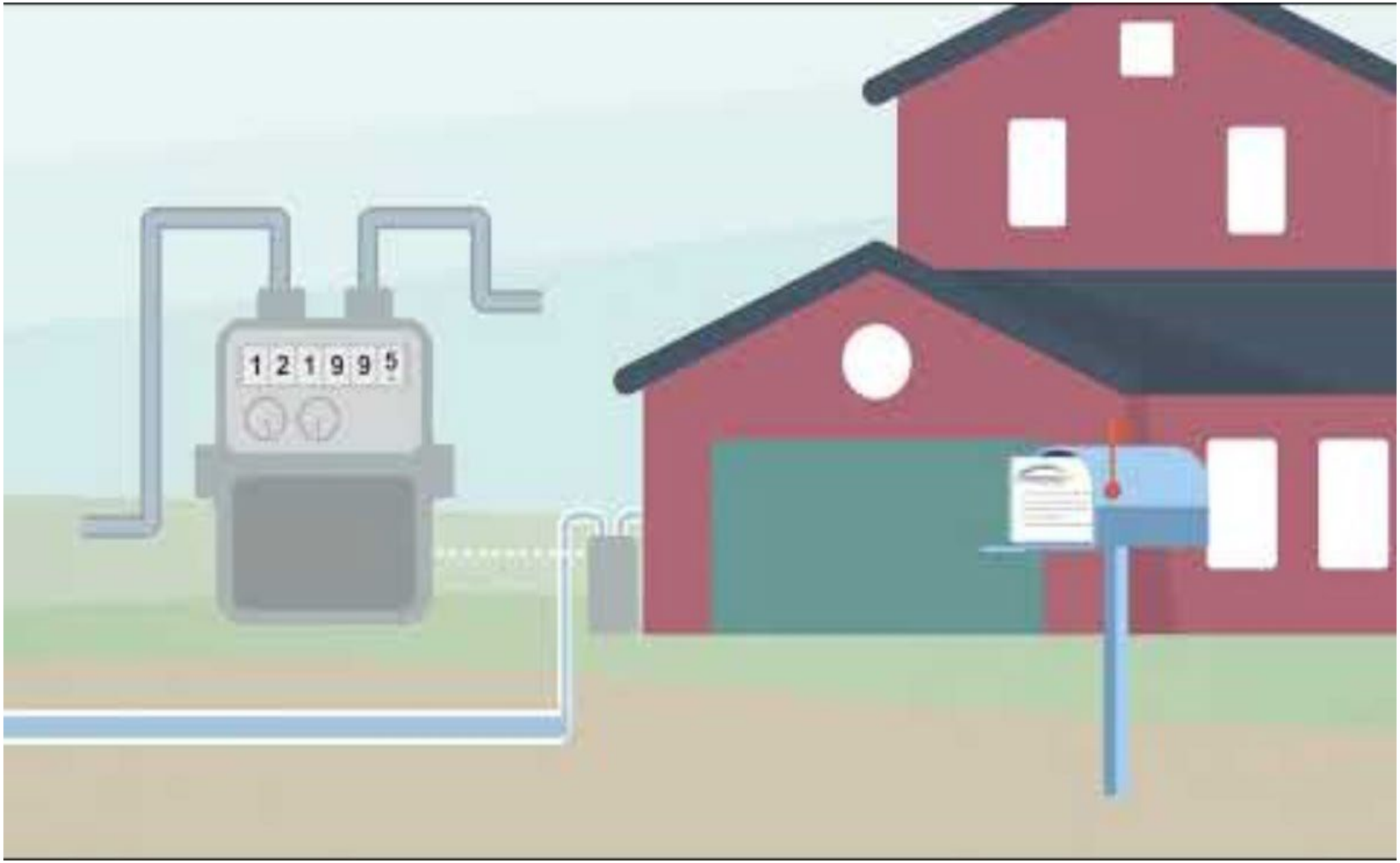
CHGE Gas System Video



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Properties of Natural Gas

- Tasteless
- Colorless
- Non-Toxic
- Lighter than air
- Combustible
- Odorless – Until we add Odorant!

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Composition of Natural Gas

- **Methane** → 85-95%
- Other Hydrocarbons → 3-7%
  - **Ethane**
  - Propane
  - Butane
  - Pentane (plus)
- Non-Hydrocarbons → 2-8%
  - Nitrogen
  - Carbon Dioxide

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Odorant – The Smelly Stuff!

- Odorant (Mercaptan) is an organic sulfur compound
  - Added to natural gas to give it an identifiable odor (customer recognition)
  - Detectable at 0.5% gas in air (equivalent to 10% LEL)

Gas Odor Hotline

- Direct: 1-800-942-8274
- 911

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Customer Demographics, Usage Trends and Demand Forecasting

Stacy Powers

Director – Costs, Rates & Forecasts

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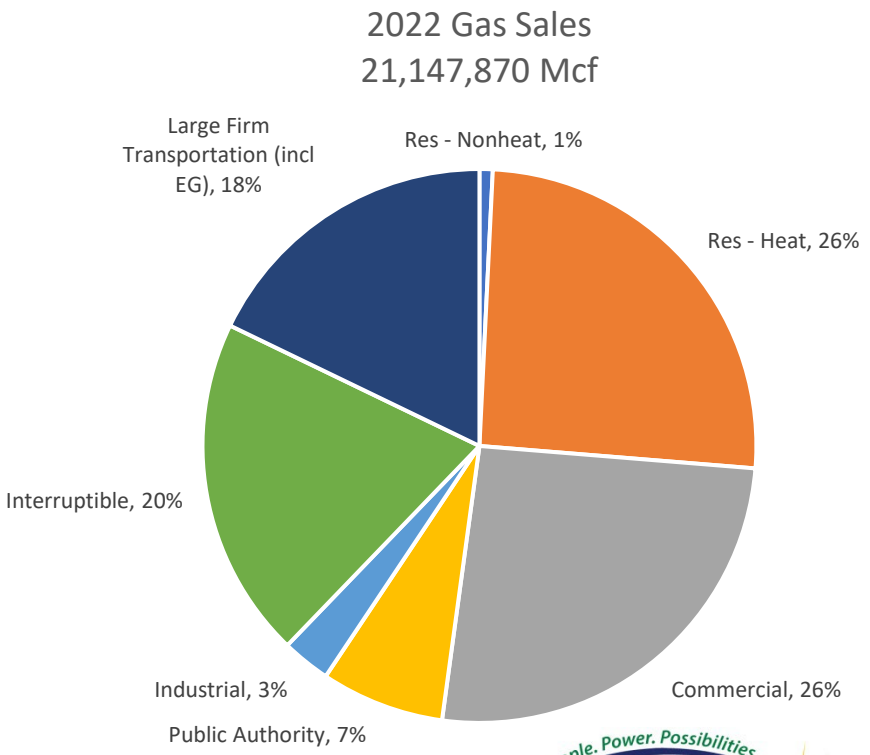
Who Are Our Customers in New York

2022 Gas Customers	
Residential - Nonheat	7,024
Residential - Heat	67,427
Commercial	11,577
Public Authority	905
Industrial	309
Interruptible	33
Large Firm Transportation (incl EG)	5
	87,280



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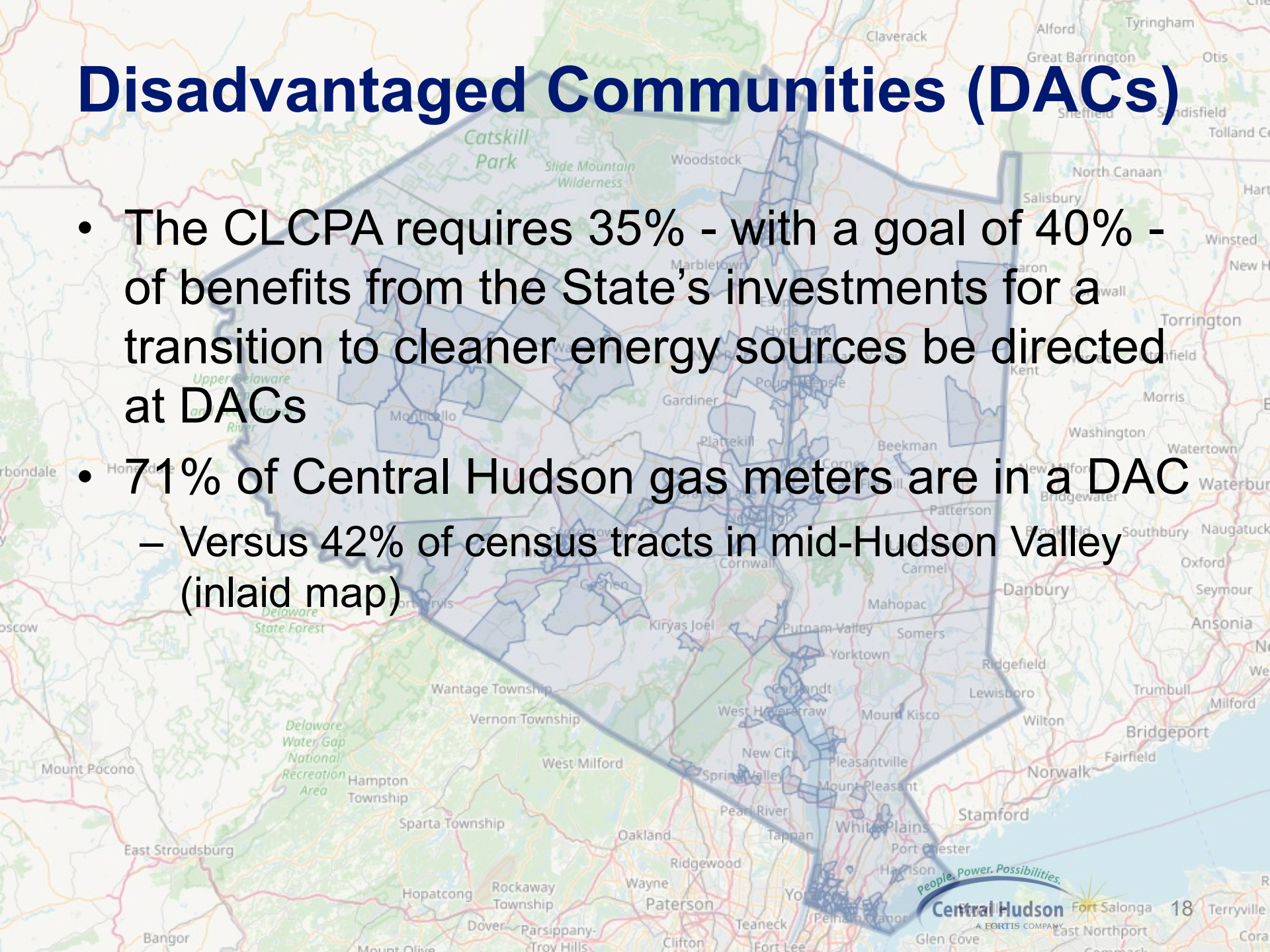
Disadvantaged Communities (DACs)

- The CLCPA requires 35% - with a goal of 40% - of benefits from the State's investments for a transition to cleaner energy sources be directed at DACs
- 71% of Central Hudson gas meters are in a DAC
  - Versus 42% of census tracts in mid-Hudson Valley (inlaid map)



Energy Affordability Program (EAP)

- EAP bill discounts provided to enrolled customers
- Customers qualify through:
  - A HEAP payment applied to their account
  - Account is file matched with OTDA
  - Customer self-certifies
- ~19,500 customers; 6,500 gas accounts
- $7.3 M in electric discounts; $3.7 M in gas discounts provided (12 months ending November 2023)

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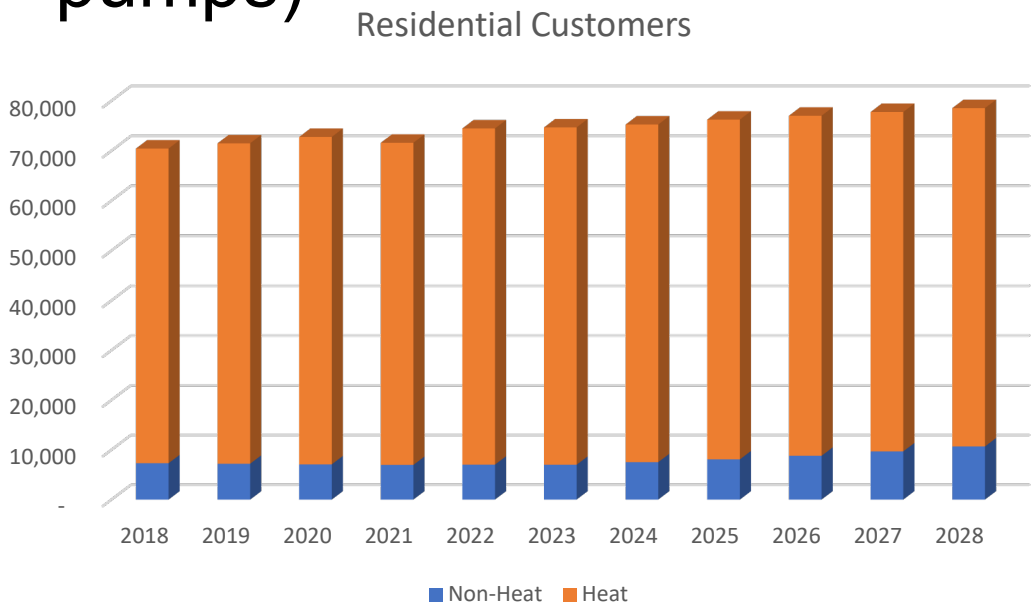
Our Residential Customers

- 9% of residential customers do not use gas for heating
- By 2028 non-heating residential customers grows to 14% driven by electrification (heat pumps)



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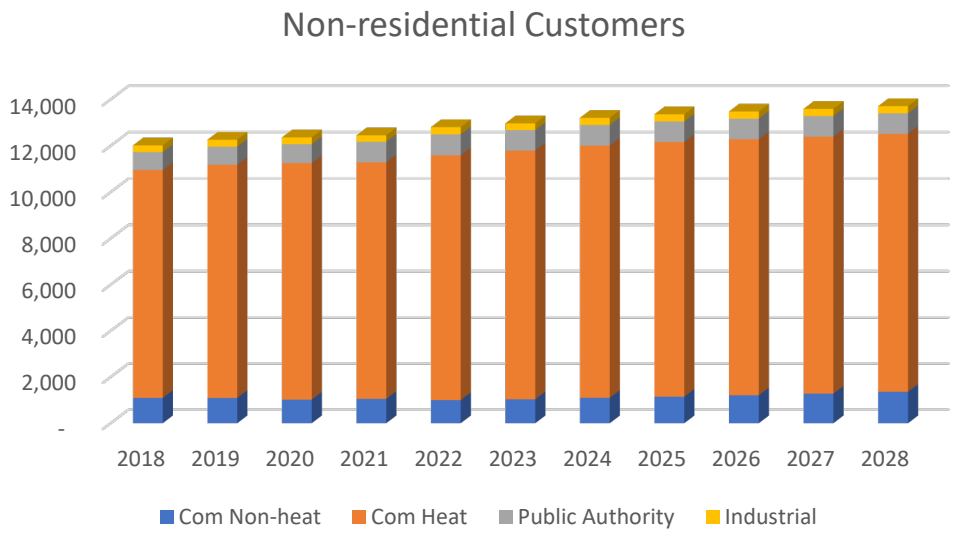
Our C&I Customers

- Top 20 gas customers contribute to 60% of annual throughput (inclusive of interruptible, electric generators)



Class	Mcf/year
Com Non-heat	560
Com Heat	460
Public Authority	1,680
Industrial	1,940

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Volume Forecasting Methodology

Customers

- Residential (heat and non-heat)
- Commercial (heat and non-heat)
- Public Authority
- Industrial
- Large Firm Transportation
- Interruptible

Use per Customer

- Econometric models include weather and economic variables
- Some models include end us saturation and efficiency estimates
- Interruptible and Large Firm Transportation individually forecasted

Final Output

- Post-forecast adjustment for electrification
- 5-year customer, sales and revenue forecast for business plan or rate case purposes

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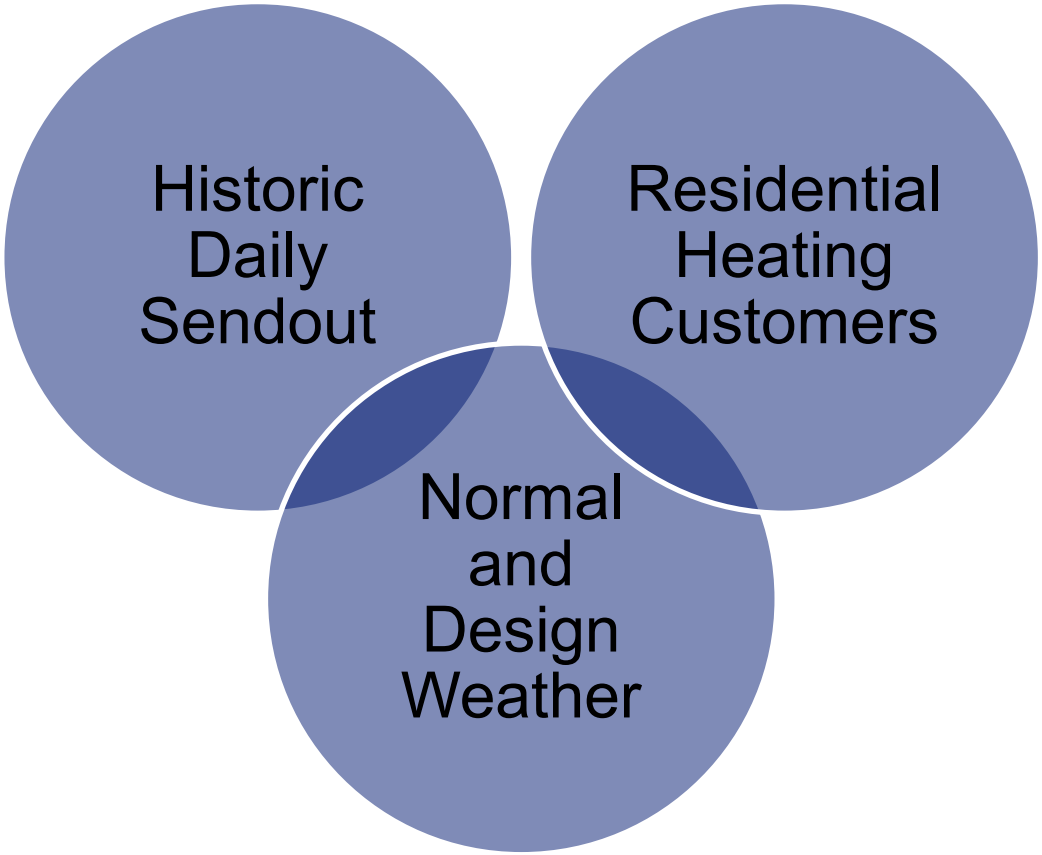
Peak Forecasting Methodology



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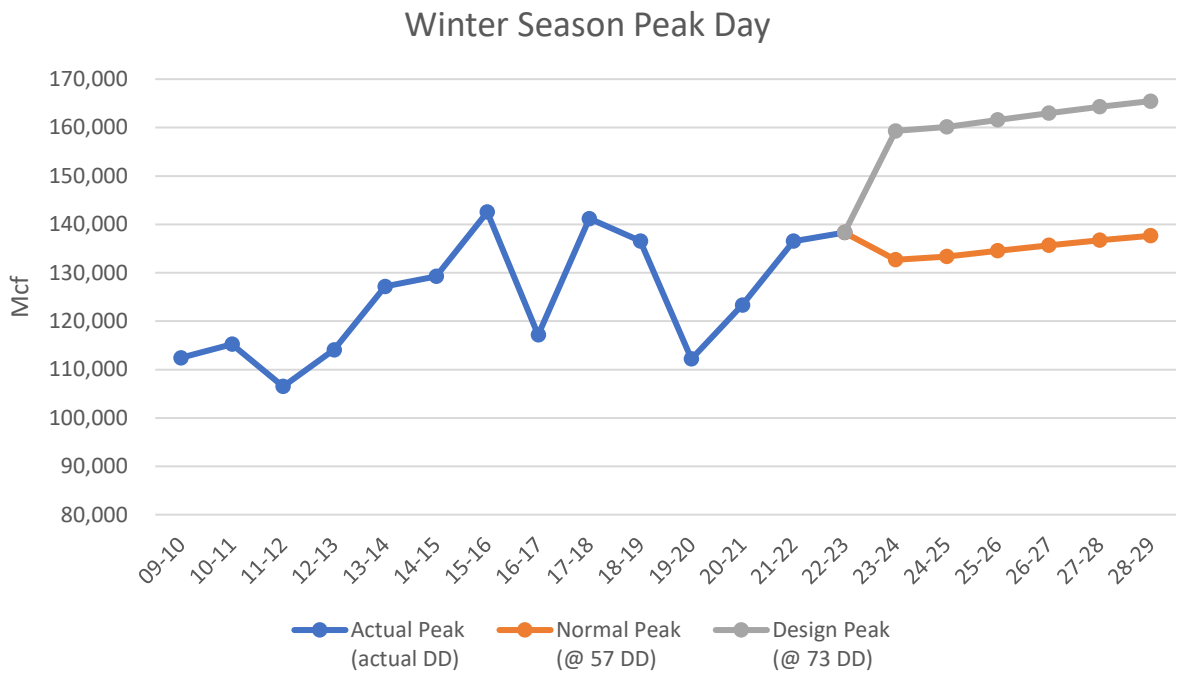
Peak Forecasting Detail

- Firm
  - Sales
  - Transportation
    - Large Firm Transportation
- Non-Firm
  - Sales
  - Transportation



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Weather Assumptions

- Weather measured at Dutchess County Airport
- Volume forecast
  - 10 year normal
  - 30 year normal for Winter Supply Review
- Peak forecast
  - Normal – 57HDD with prior day of 51HDD
  - Design – 73HDD with prior day of 45HDD

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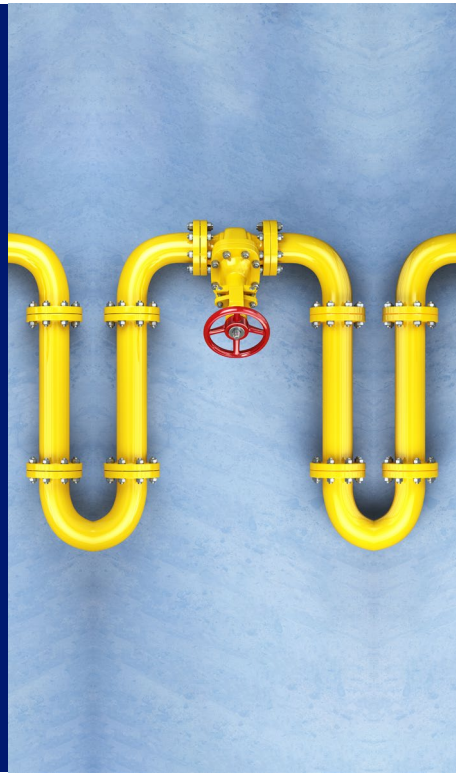
Gas Supply, Procurement, Transportation, and Storage

Jeffrey May
Manager – Energy Resources



Planning: Serving Peak Demand

Design Day Forecasting

- Annual Planning
  - Review of 12 to 15-month sales & demand forecasts
    - Upcoming winter supply requirements
    - Hedge Plan
  - Review 2 to 5-year sales & demand forecasts
    - Firm transportation or storage requirements

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Planning: Serving Peak Demand

Firm Transportation & Storage Capacity

- Central Hudson manages a single, consolidated portfolio
- Contracts serve up to Design Day requirements plus a small reliability reserve margin
  - Long-term transportation and storage
  - Intermediate-term peaking services

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Planning: Serving Peak Demand

Commodity Procurement

- Central Hudson's portfolio is managed as a whole, aggregate system
- Full-service commodity customers
  - seasonal base, storage, term peaking, daily spot, balancing services
  - Diversity of liquid market hubs; Domestic and Canadian
- Delivery service customers
  - storage (WBS), balancing services
- Responsibly Sourced, Renewable, Compressed, and Liquified Natural Gas

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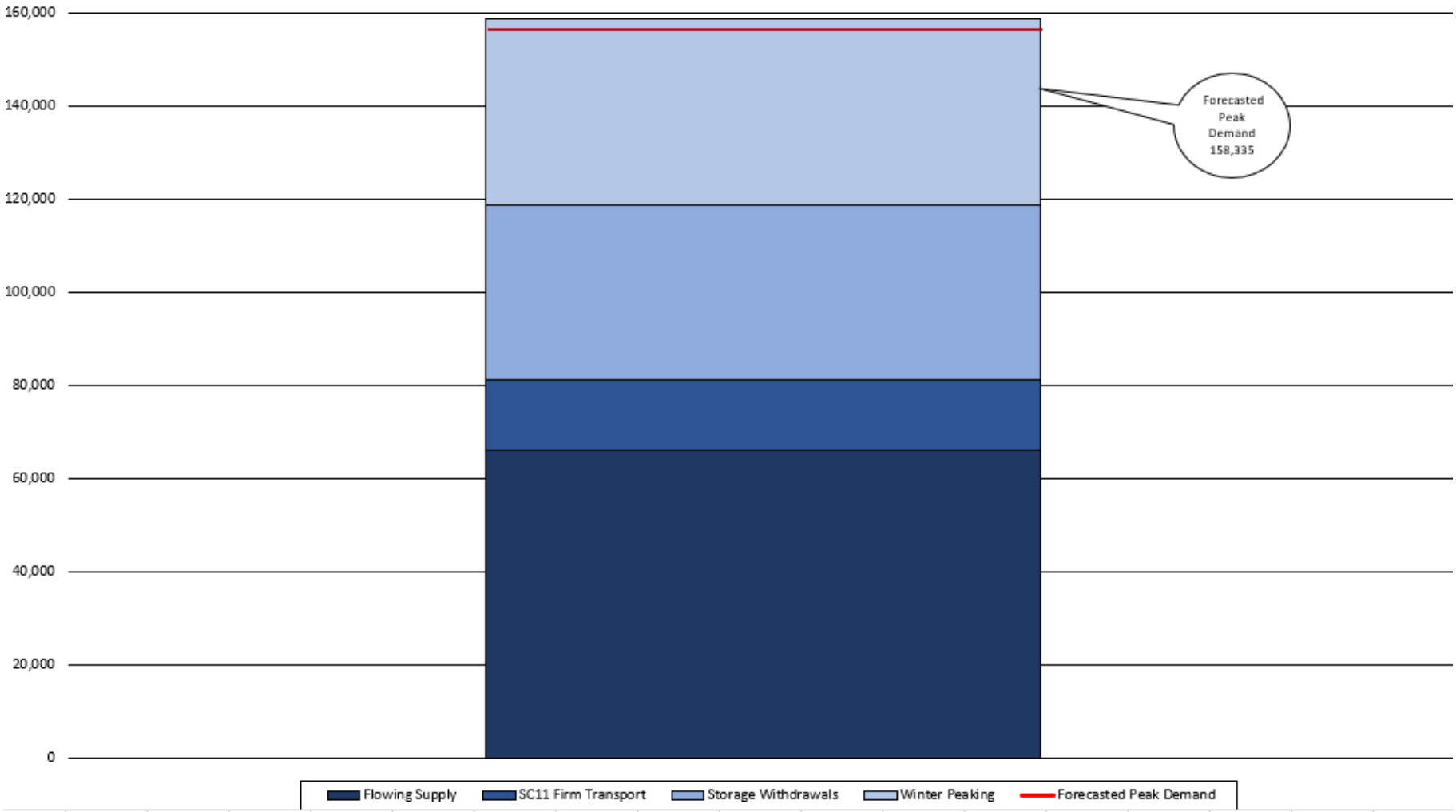
Winter 2022-23 Forecast Design Day Demand and Supply



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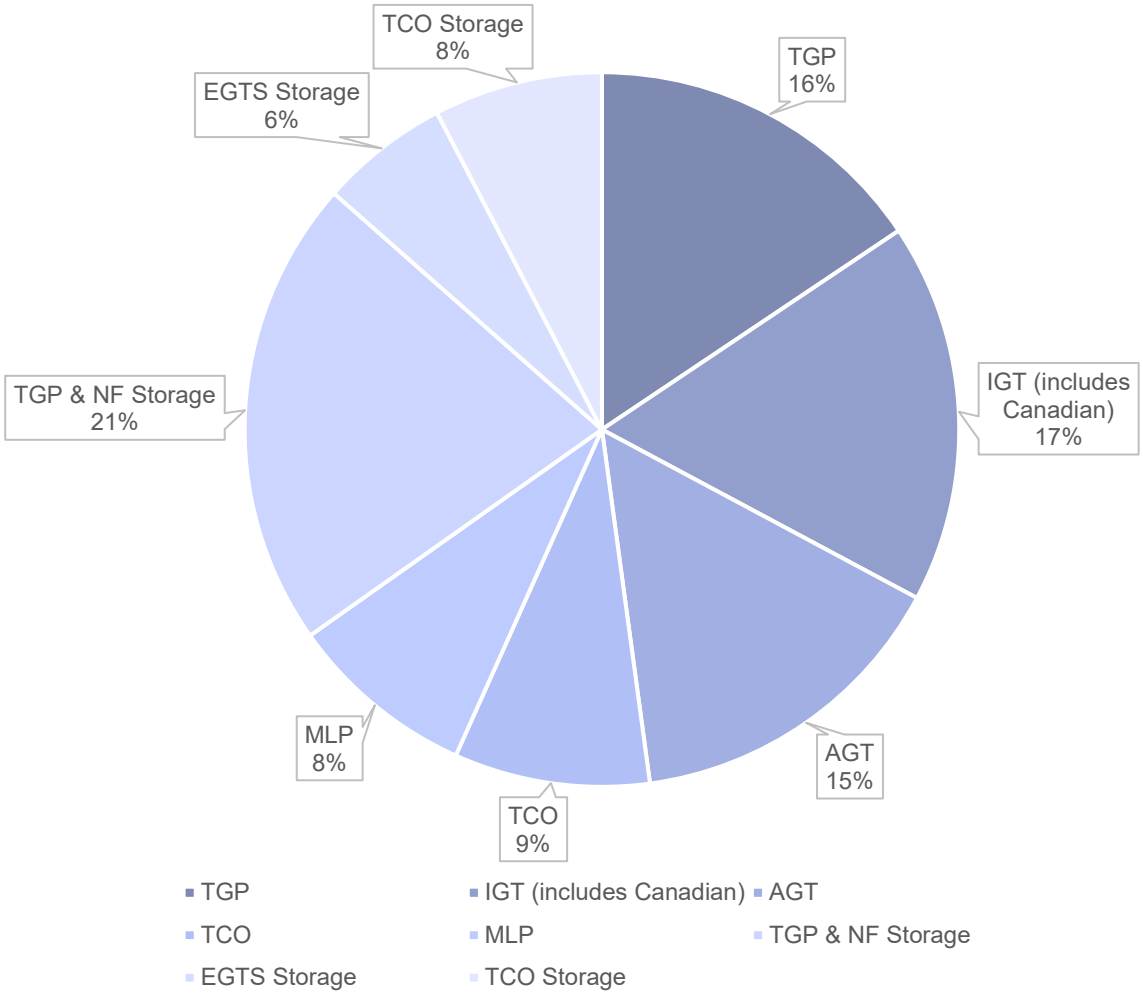
Firm Transportation and Storage Capacity

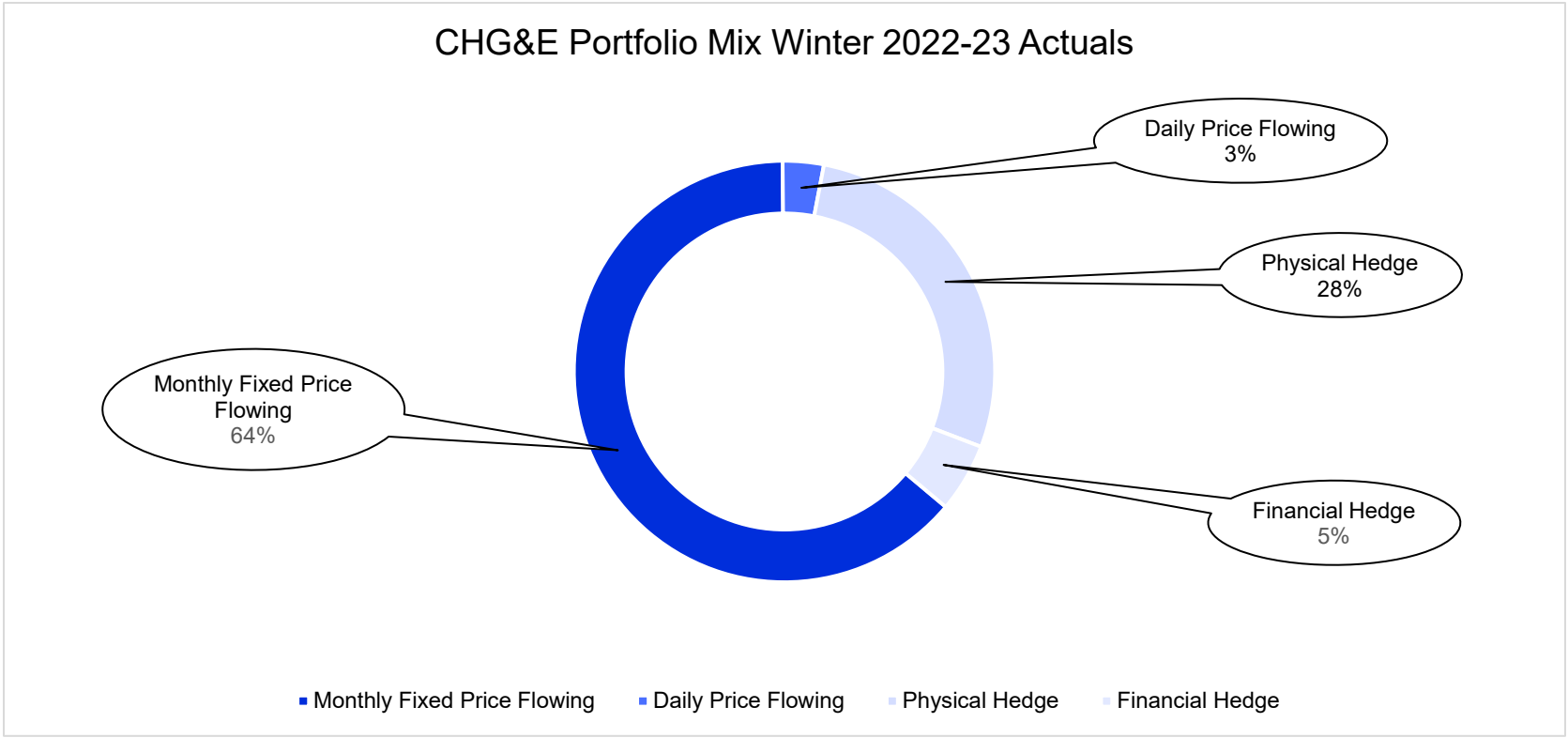
- **Firm Pipeline Transportation Capacity**
  - Millennium Pipeline
  - Columbia Gas Transmission
  - Tennessee Gas Pipeline
  - Iroquois Gas Transmission
  - Algonquin Gas Transmission

- **Firm Storage Capacity with Transportation Service**
  - Eastern Gas Transmission and Storage
  - Columbia Gas Transmission – Columbia Storage
  - Tennessee Gas Pipeline – Tennessee Storage and National Fuel Storage



Dampening Price Volatility

- The Company seeks to hedge 40% of firm winter requirements each year
- Storage Injections in the summer are delivered to city gate stations in winter
- Financial futures and transportation basis fix monthly flowing base supplies
- Winter weather financial instrument



Reliability Through Supply Diversification and Flexibility

Least Cost Approach to Supply Procurement

Firm Commodity Procurement

Market Area Strategy	• Aligned with transportation assets • Robust Marcellus and Canadian supplies • Market hub varies based on transportation path / city gate
Least Cost Dispatch	• Lowest cost supply delivered first • Market analysis performed daily • Least cost, most reliable supply sought
Portfolio Mix	• Monthly priced with fixed basis • Storage • Peaking • Daily Spot
Price Volatility Mitigation	• Financial Hedges • Storage • Daily market analysis • Asset Management Agreement

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Gas Engineering

Joseph Koberger
Director of Gas Engineering

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Gas Engineering Overview

Design and plan safe and reliable natural gas system

Comprised of three areas:

1) Gas Transmission, Regulator Station and Electric Production
   - Project manage capital construction projects.
2) Gas Standards and Integrity Management
   - Responsibility for procedures, construction standards, materials
   - Ensure pipeline integrity
3) Gas Operations Engineers
   - Provides local district support

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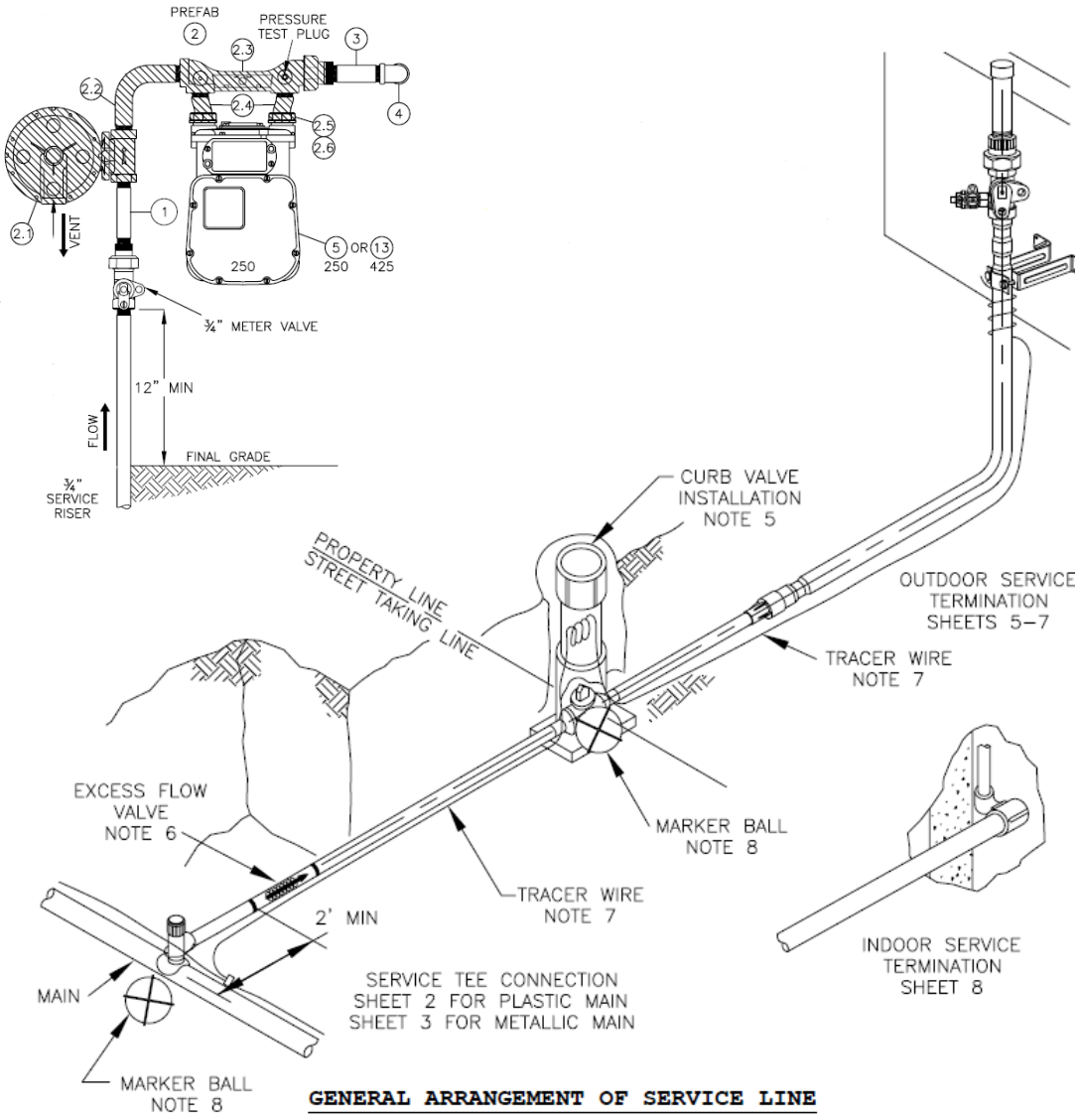
What does a Service Look like?



GENERAL ARRANGEMENT OF SERVICE LINE

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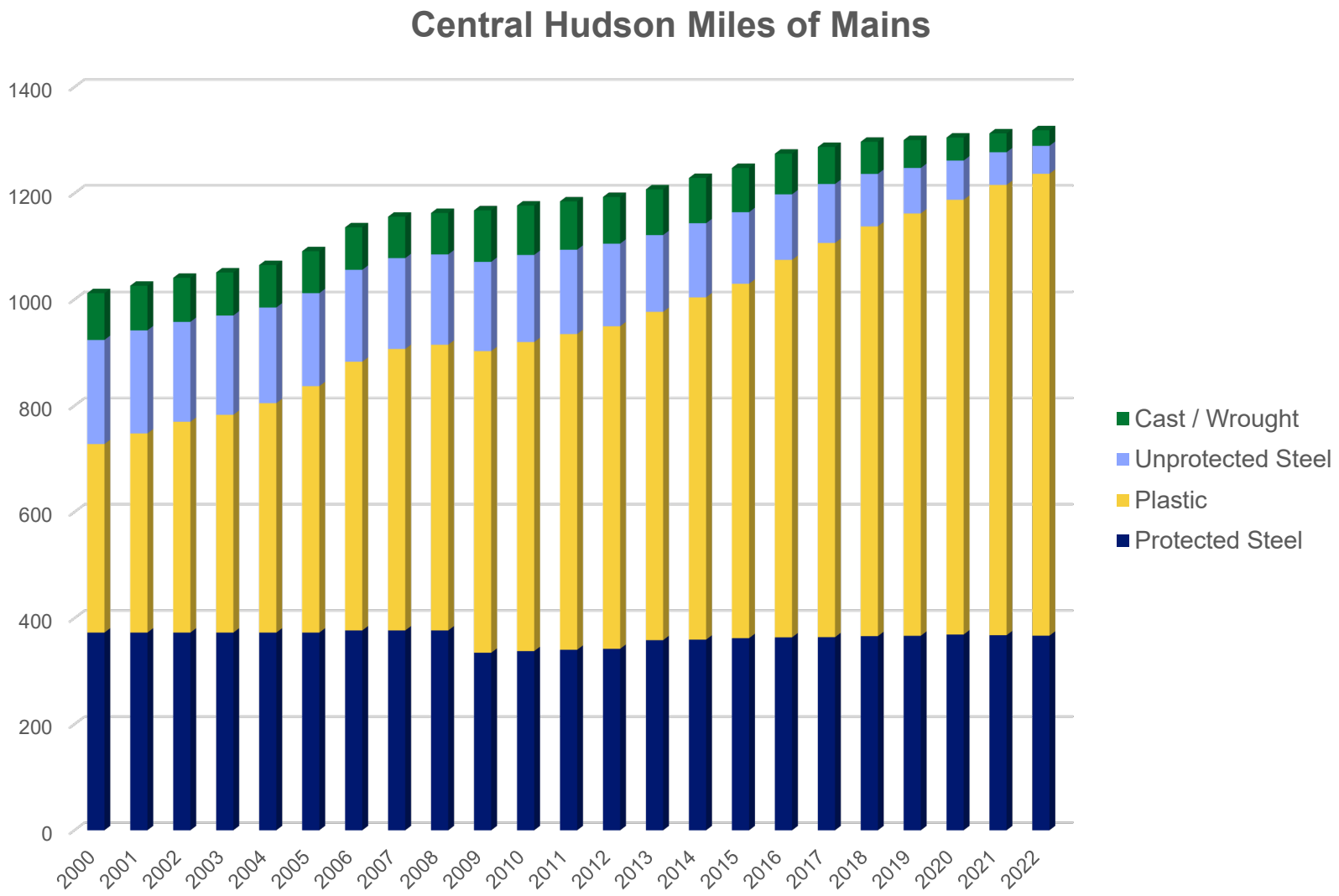
Pipeline System Characteristics



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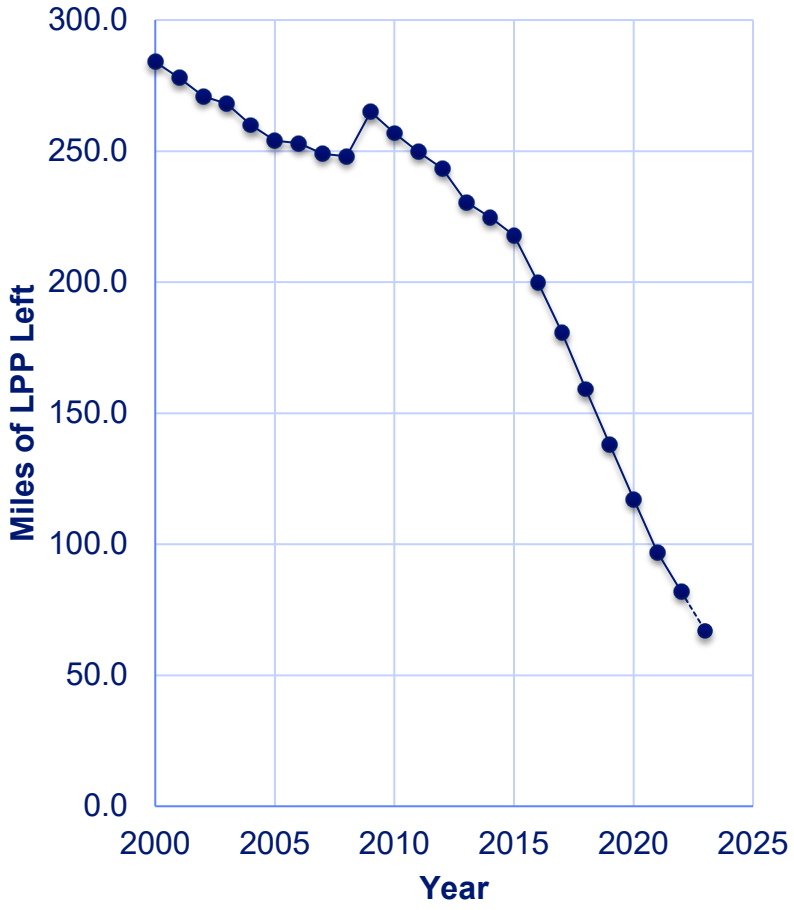
When to Replace Pipes?

- **Capital Budget Development**
  - Utilize a software “Main Replacement Prioritization” (MRP)
  - Calculates risk and condition scores associated with each pipe segment based on:
    - Leak History, Pipeline Characteristics, Building Proximity, etc.
  - Team of SME’s review and target highest risk pipes to replace. Team develops a 5-year Capital Plan based on data and Operational input
- **Operations –** Work closely with Local Municipalities to coordinate pipeline replacement projects with paving and beautification projects
- **Gas Planning** – Proactively model and study gas systems and determine if any pipe replacements are needed to support pipeline capacity

Leak Prone Pipe (LPP) Replacement Program



- Central Hudson's current largest capital investment program
- Current target 15 miles of LPP per year
- At end of 2023, remaining Mileage will be 66.9 miles

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Safety Programs at Central Hudson

- TIMP
- DIMP
- Regulator Station Replacements
- Hands-On First Responder Training
- Leak Prone Pipe Replacement Program

Efforts to Reduce Methane Emissions

- Methane Recapture on Transmission Projects
- Optimizing Gate Station Equipment
- Leak Prone Pipe Elimination Program
- Satellite Methane Detections

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Gas Operations

Brianna Peak

Manager, Gas Operations and Engineering

Gas Operations Overview

Operate a safe and reliable gas system for our customers

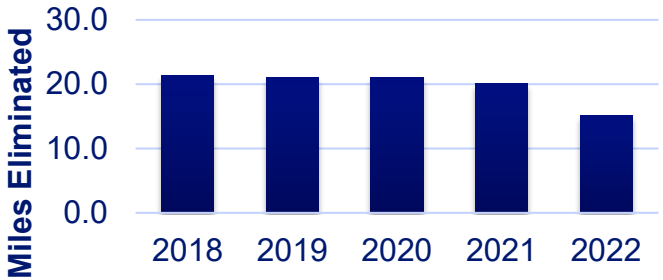
- Perform inspection and repairs for the safe operation of the natural gas system
- Construct new pipelines, replace aging infrastructure, and retire unutilized pipelines
- Respond to Gas Emergencies
- Manage workforce comprised of contractors and IBEW Local 320 Workforce
- Train and Develop internal resources
- Manage Pipeline Safety Programs and Personal Safety initiatives

Leak Prone Pipe (LPP) Replacement Program

- Work with Engineering and Planning department to execute projects
- LPP projects are also known as Distribution Improvement Projects (DIPs) ranging in size from 0.5 to 3 miles projects
- Modernized materials increase safety and reliability!
- Over 85% of Budget directly benefits Disadvantage Communities
- Work closely with Municipalities to replace aging infrastructure before or in conjunction with City projects

For more info: Visit our Youtube Channel!

Leak Prone Pipe Miles Eliminated



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LPP Video

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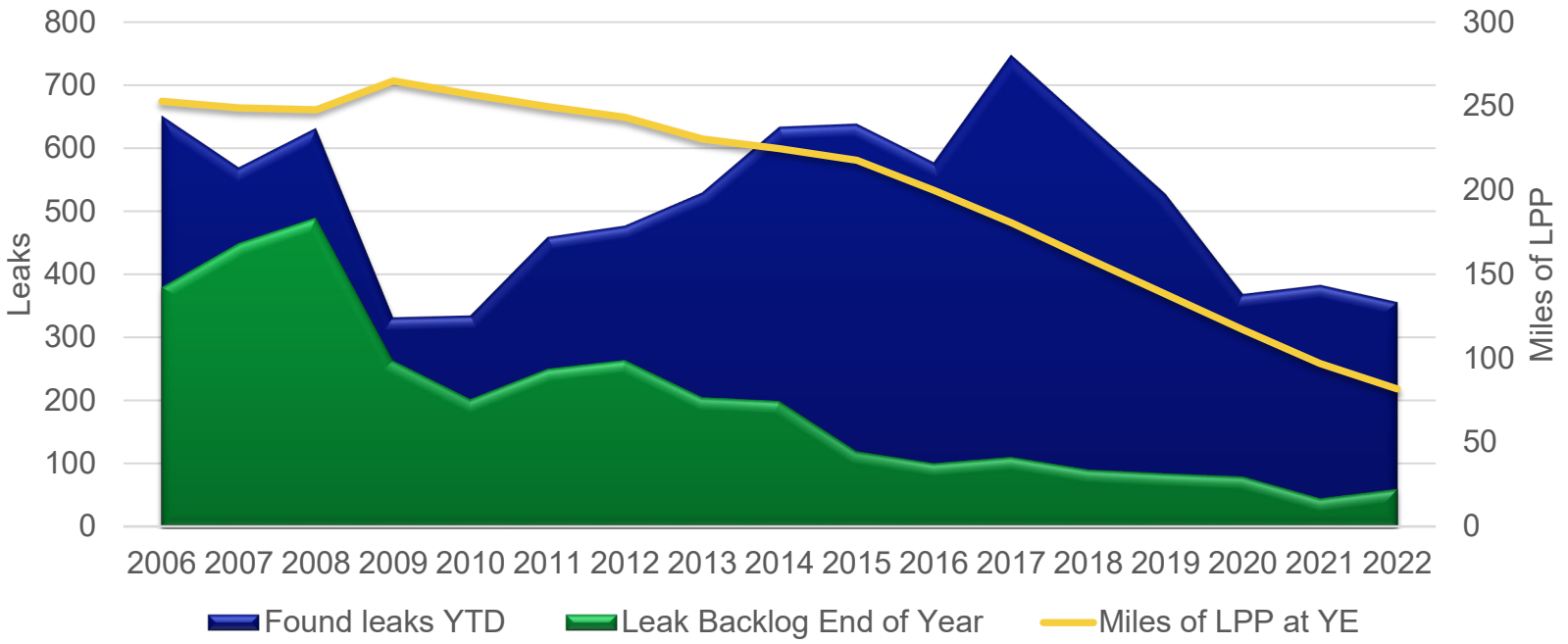
LPP Program Enhances Safety!



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Gas Leak Backlog

- Utilize LPP projects to replacing aging infrastructure before a leak is detected
- Targeted leak repairs throughout the year
- Damage Prevention efforts

	2018	2019	2020	2021	2022
Total Leak Back Log	91	87	80	47	63
Hazardous (Type 2/2As) Leak Backlog	6	1	8	1	3

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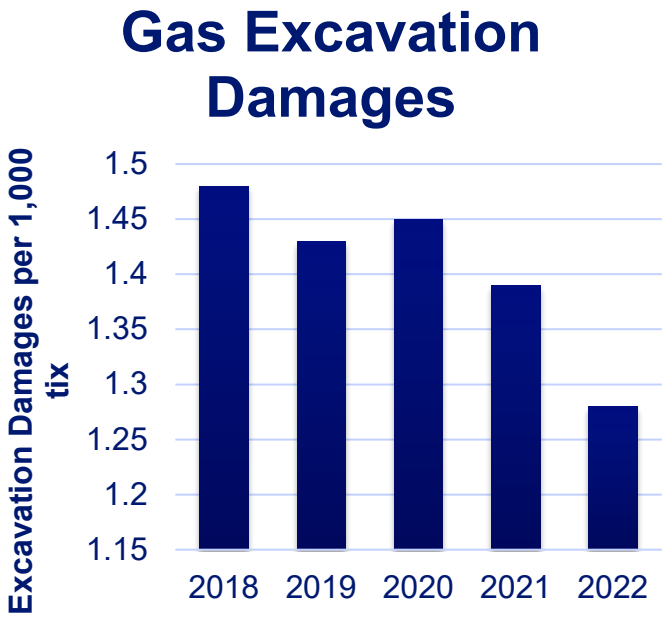
Improved Safety and Emission Reductions Through Enhanced Leak Repair Goals

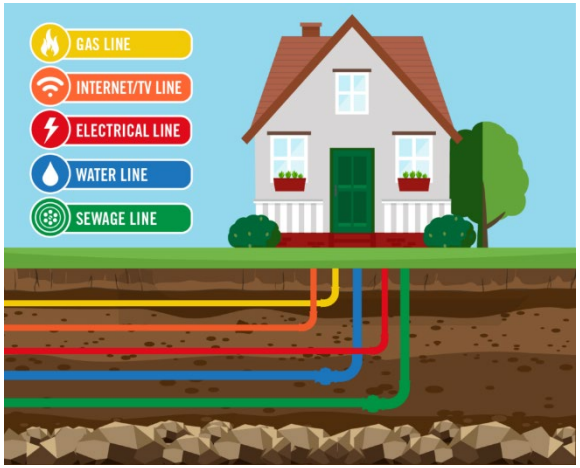
To measure leak repairs, the Company developed internal KPIs that go beyond code requirements. The Company measures:

- The overall Leak Repair Success rates
- The percentage of All leaks repaired within 60 days of discovery
- The percentage of Type 2/2As repaired within 14 days and 28 days of discovery

Damage Prevention Program

- Damage Patrollers provide enhanced education and outreach at jobsites
- Partner with Hudson Valley Damage Prevention Council
- Present at various UDigNY events
- Encourage nondestructive digging methods with internal and contract resources





Damage Prevention – Central Hudson

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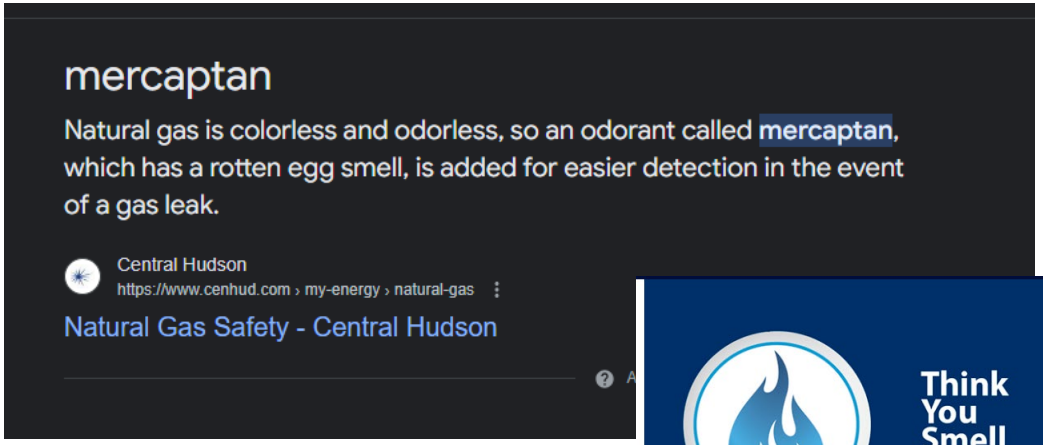
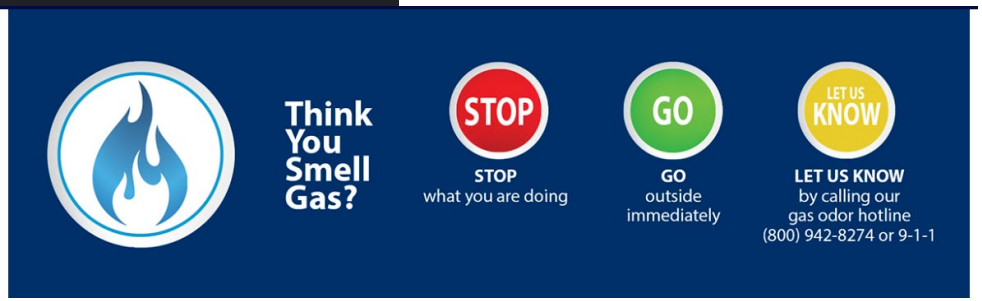
Emergency Response

Central Hudson What is that rotten egg smell?





Emergency Response	2022 YTD Final	Target
< 30 minutes	85.6%	>80%
< 45 minutes	99.4%	>90%
< 60 minutes	99.9%	>95%

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Additional Safety Initiatives

- LP pipe is leak surveyed on annual basis (exceeding Code requirements)
- Community First Responder Drills
- Grassroots Safety Team – Gas Operations
- Development of Pipeline Safety Management System (API 1173)

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Key Concepts in Gas Planning

Dean Kane
Section Engineer, Gas Planning

T&D Gas System Planning Functions

Model System infrastructure utilizing Flow Modeling Software	Perform flow, area and integrity studies	Support Main Replacement Program (MRP)	Support Sizing Design for Distribution Improvement Projects
Complete Engineering Requests	Review Firm verse Interruptible Customer Decisions	Sizing of Main, Services, Meters	Regulator Sizing Requests
Modeling Existing and Future Loads	Verifying Loads	Engineering Support to Operations	Gas System Long-Term Plan

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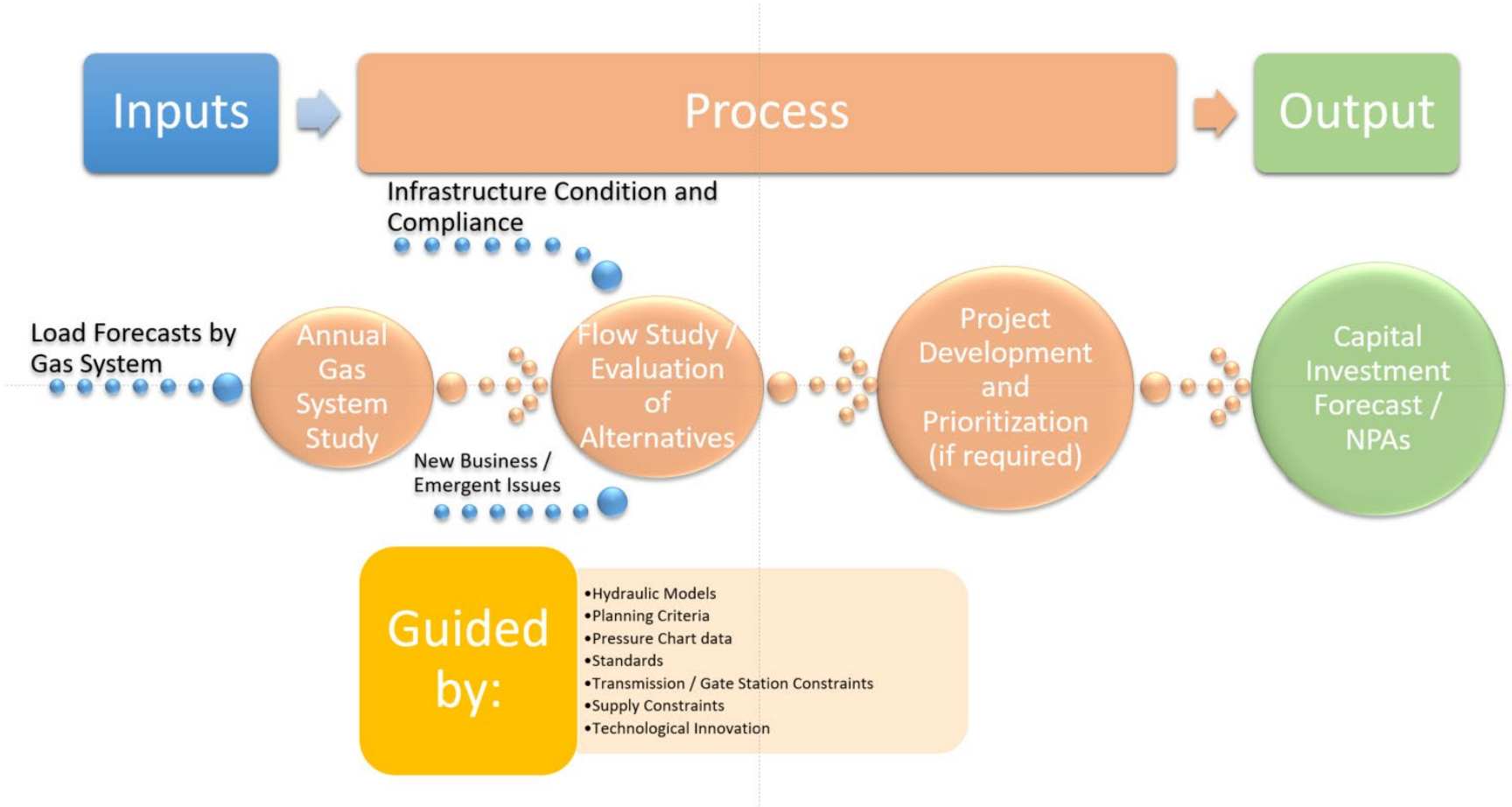
T&D Gas System Planning Process



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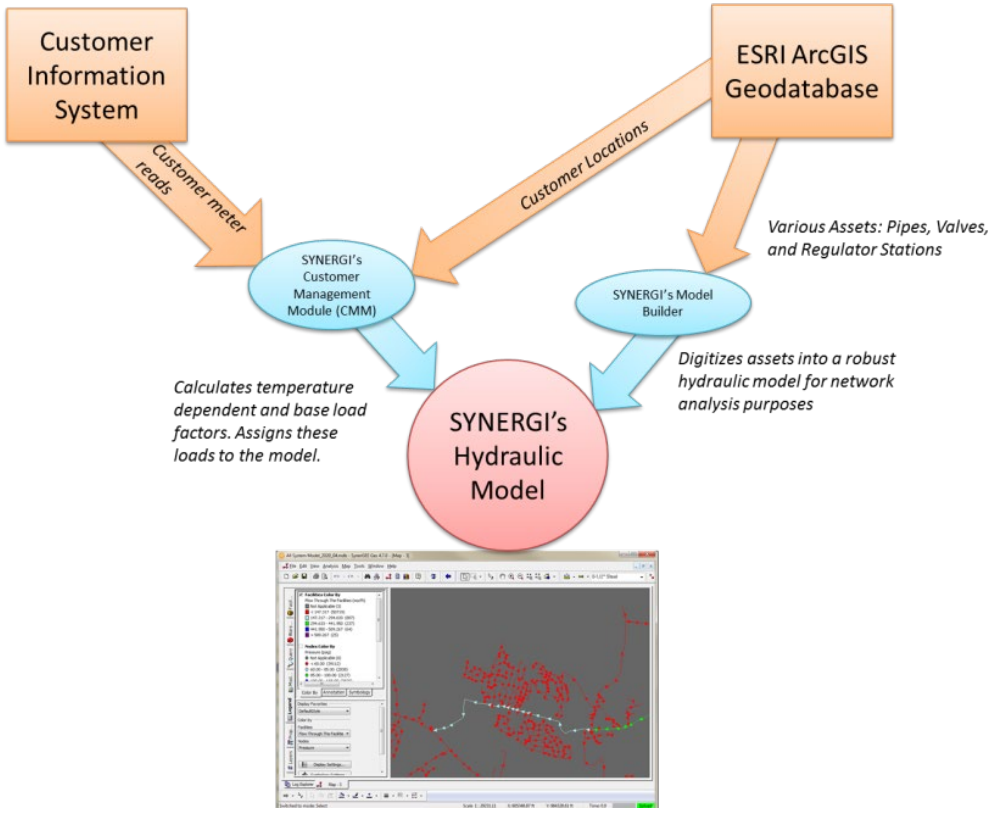
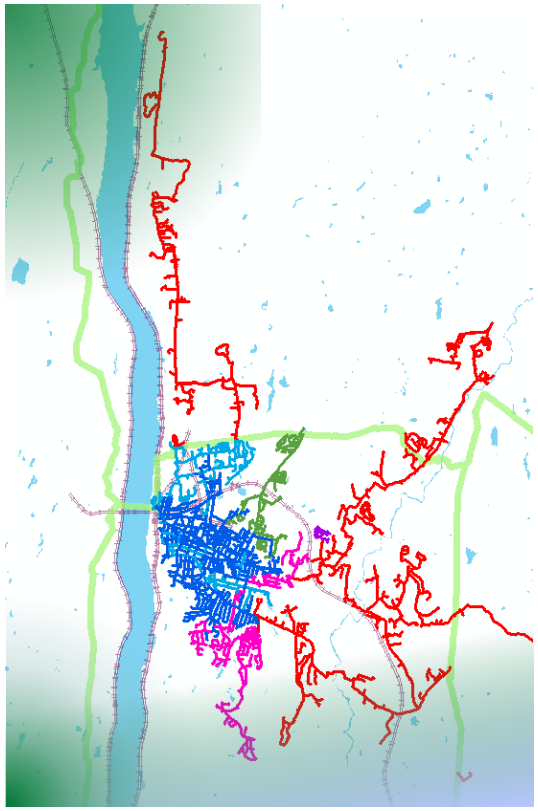
Construction of a Hydraulic Model

- To identify the potential Vulnerable Locations as well as analyze them in more detail, Central Hudson utilizes DNV GL's Synergi Gas hydraulic modelling software along with the software's extension modules: Customer Management Model (CMM) and Model builder in conjunction with the Company's own Customer Information Systems (meter readings, ArcGIS modeling, weather data) for building gas hydraulic models. The figure to the right provides a visual representation of how the source data is used to build a hydraulic model for network analysis purposes

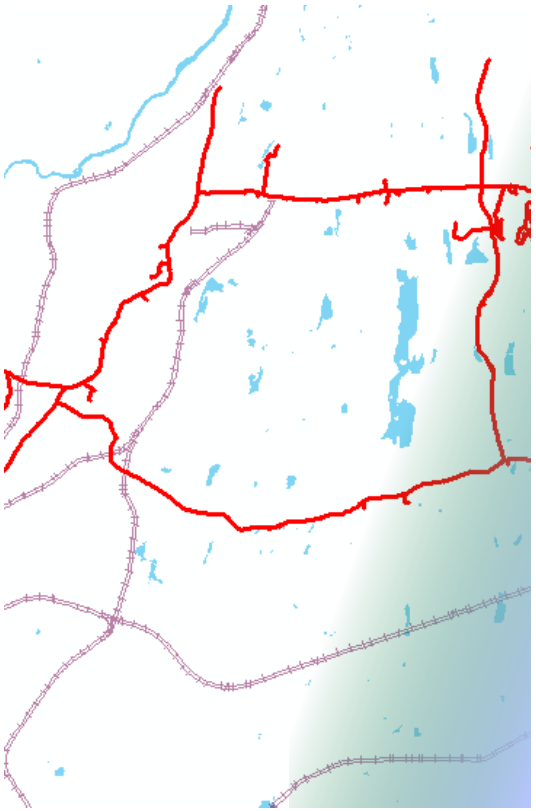


System Studies

TVPV Line



CH Line



PN River Crossing

2020 Vulnerability Study

- As identified in the Company's July 17, 2020 Filing Central Hudson has identified (4) vulnerable locations as part of its total distribution system. Central Hudson's four vulnerable locations serve 3.4% of the customer base, Where necessary, Central Hudson has identified cost effective solutions to serve existing and new customers via load transfers, replacing leak prone pipe with pipe meeting current standards, and enhancing reliability through the looping of gas systems and NPA's
- HH continues to be monitored with no projects identified in the 2023 Rate Case Capital Budget
- The PN Line – This line is included in the 2023 rate case filing. More specifically, the 'PN Line' projects listed in the Company's Capital Budget will address the delivery reliability concerns
- The TVPV Line was previously addressed (Hartstone Reinforcement 2021)
- HM Line continues to be monitored with no projects identified in the 2023 Rate Case Capital Budget

Vulnerable Location	Municipality	Peak Day Usage (2020-2021)	Affected Customer Count (2020)	System Serving the Vulnerable Location	Downstream Implication
Location A	East Fishkill & Hopewell Junction, Dutchess County	131.506	1696	HH	No
Location B	Town of Poughkeepsie, Dutchess County	43.226	742	PN	No
Location C	Town of Poughkeepsie, Dutchess County	88.792	400	TVPV	Yes - SP
Location D	Highland Mills, Orange County	18.133	244	HM	No

Utility Emissions

Karen Lo – Sustainability Coordinator

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Greenhouse Gas Classifications

Scope 1

Direct Emissions from company owned and controlled resources

- Mains and Services
- Metering and Facility Heating
- Fleet Vehicles

Scope 2

Indirect Emissions released from consumption of electricity

- Corporate and Field Offices
- Metering and Regulator Stations

Scope 3

Indirect emissions from non-company owned upstream and downstream services

- Customer Usage Electric and Gas Usage
- Aircraft

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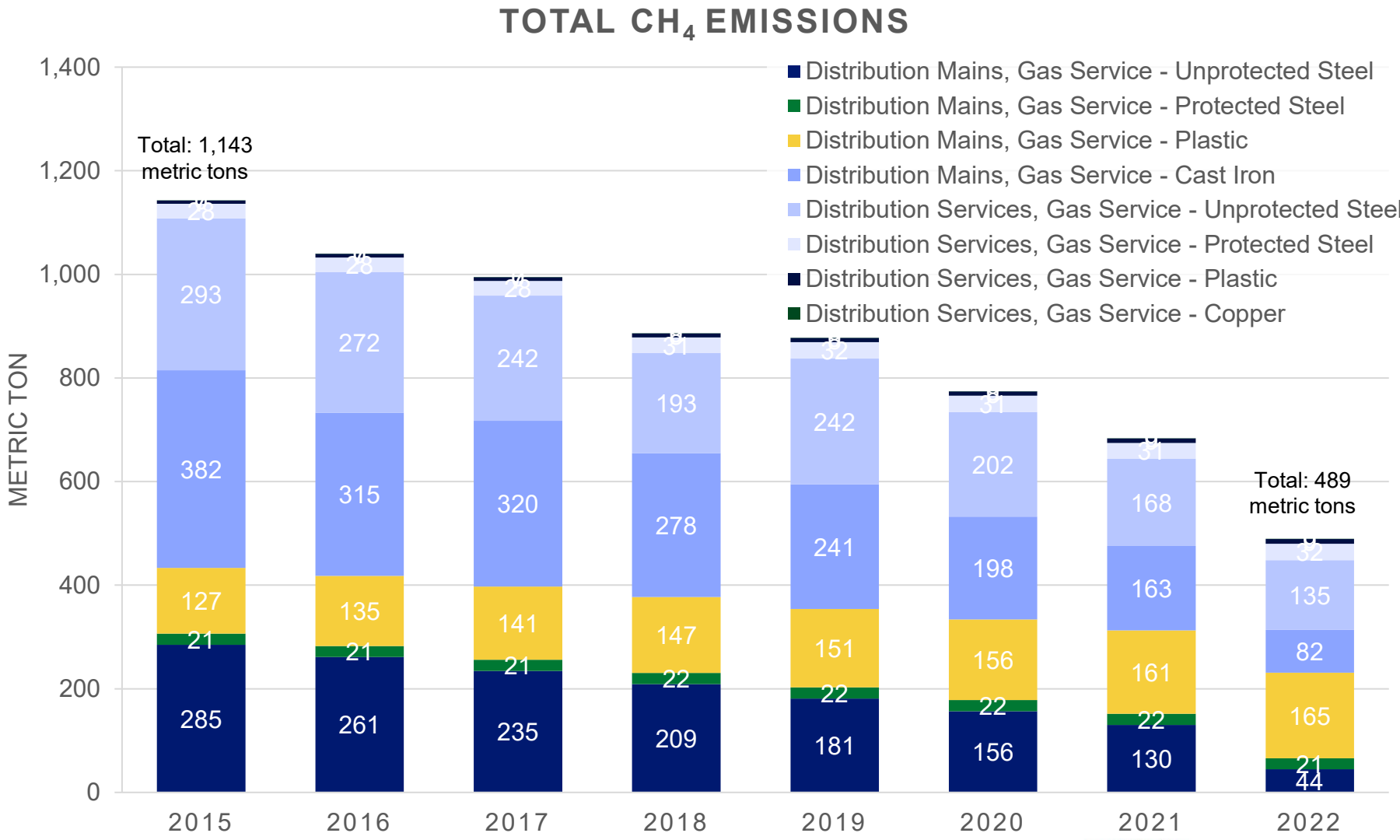
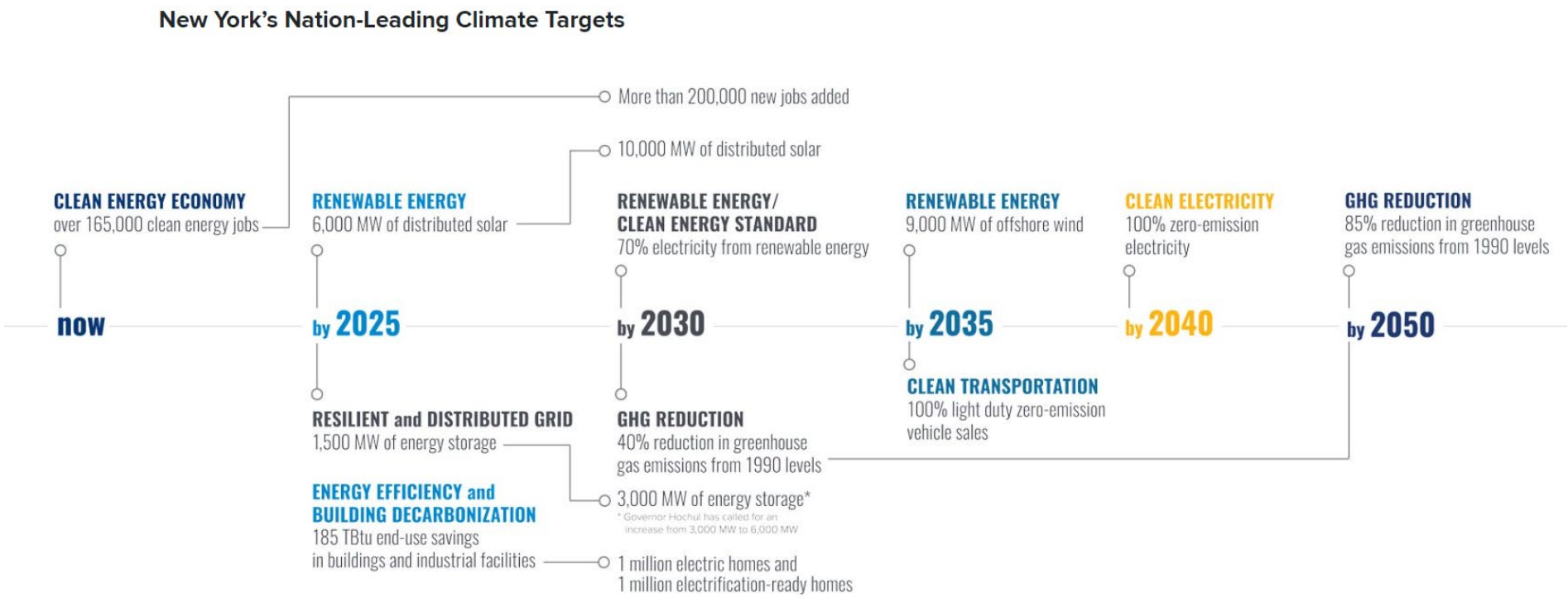
CHGE's Leak Prone Pipe Replacement Program Emissions Reduction



Additional Initiatives to Reduce Emissions

- Examples include:
  - Purchase Responsibly Sourced Gas (RSG)
  - Fleet electrification
  - Non-Pipes Alternatives (NPA)
- Investment and supporting R&D initiatives on alternative technologies:
  - Methane recapture technology
  - Proposed Thermal Energy Network pilot project-Project Youth Opportunity Union (YOU)
  - Completion of a Renewable Natural Gas Feasibility Study
  - Completion of RSG gas procurement pilot

Climate Leadership and Community Protection Act (CLCPA)



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Supporting CLCPA

- Reduction of GHG emissions from updates made to CHGE's natural gas operations complement GHG savings from the electric business and transition to renewable generation
- Projected GHG emissions reduction from gas programs are 175,000 metric tonnes of CO2e by 2030, and 325,000 metric tonnes when conversions of oil and propane heat to electric heat pumps are included
- Nearly 70% of CHGE's natural gas side GHG reductions are estimated to benefit Disadvantaged Communities

Demand-Side Management

Cory Scofield
Director, Demand Side Management

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Gas Energy Efficiency Programs

Overview

- Central Hudson's gas energy efficiency ("EE") and heat pump programs are part of the New Efficiency: New York ("NE:NY") portfolio
- Program budgets and targets are set through 2025
- The Public Service Commission and Staff are in the process of an Interim Review evaluating the statewide NE:NY portfolio
- The Order Directing Proposals was released in July 2023 requiring utilities to propose budget bounded portfolio proposals and targets through 2026 – 2030
- An Order concluding the Interim Review may be issued in late 2023 or early 2024

ENERGY STAR AWARD 2023
PARTNER OF THE YEAR
Sustained Excellence

Residential

- Residential HVAC
- Efficient Products
- Behavioral
- Weatherization (Sealed)

Commercial & Industrial

- Prescriptive
- Custom

Low- to Moderate Income

- Empower LMI Program
- Affordable Multifamily Energy Efficiency Program
- Community Outreach

Save Energy & Money: https://www.cenhud.com/en/my-energy/save-energy-money/

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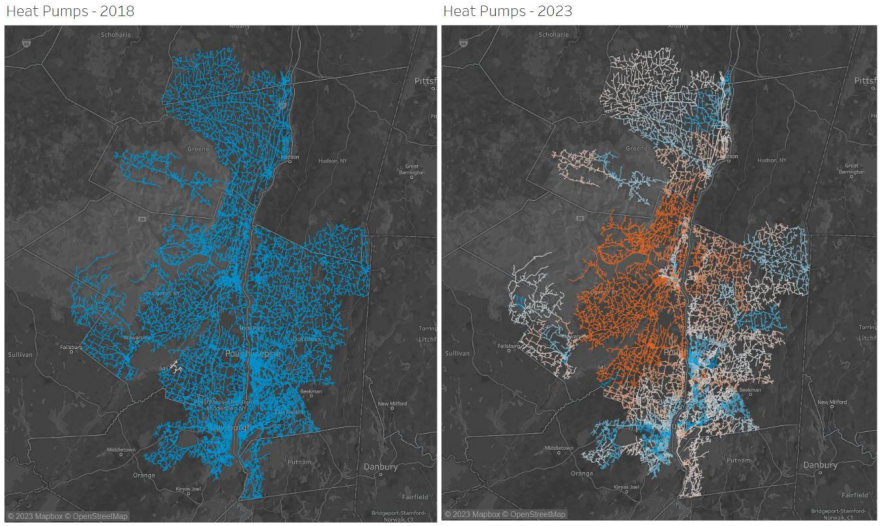
Clean Heat

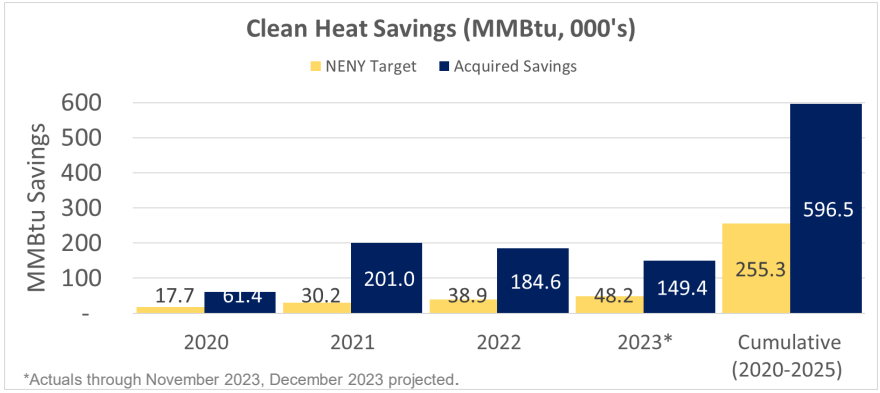
Overview

- NYS Clean Heat Statewide program
- Launched in 2020 and authorized though 2025
- Certified NYS Clean Heat contractors install
  - Air-Source Heat Pump
  - Ground-Source Heat Pump
  - Heat Pump Water Heaters
- Residential and commercial customers
- Rebates based on system capacities



Progress

- One of only 2 utilities to have already achieved NENY 2020-2025 cumulative savings target
- 596k MMBtu vs. 255k MMBtu NENY target
- Savings achieved at half the derived unit cost
- Additional Funding Petition approved June 2023
- 9,000+ completed projects
- 6,000+ buildings fully electrified
- Full displacement of legacy fossil fuel system
  - Projects approximately; 50% fuel oil, 17% natural gas, 11% propane, 22% Other (electric, wood, coal)



Clean Heat Program: https://www.cenhud.com/en/my-energy/save-energy-money/residential-incentives/heatpumpincentives/

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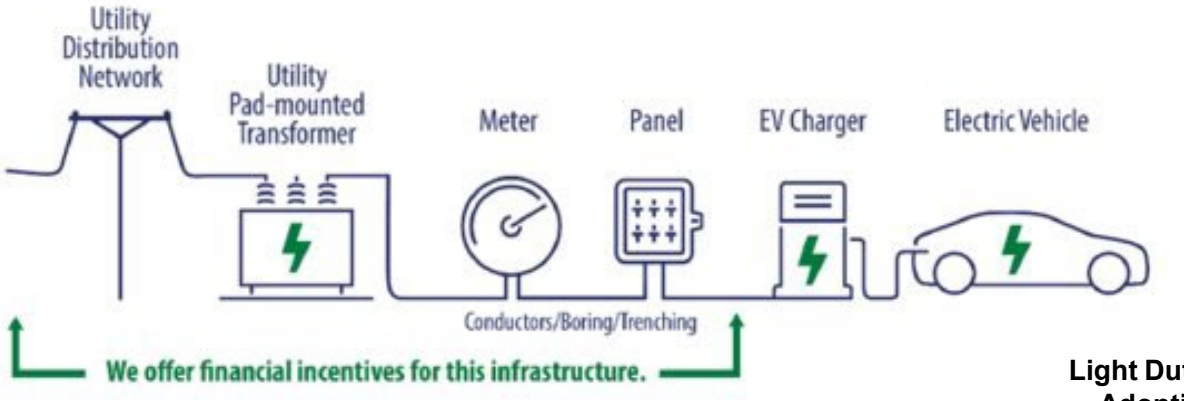
Electric Vehicle Charging Initiatives

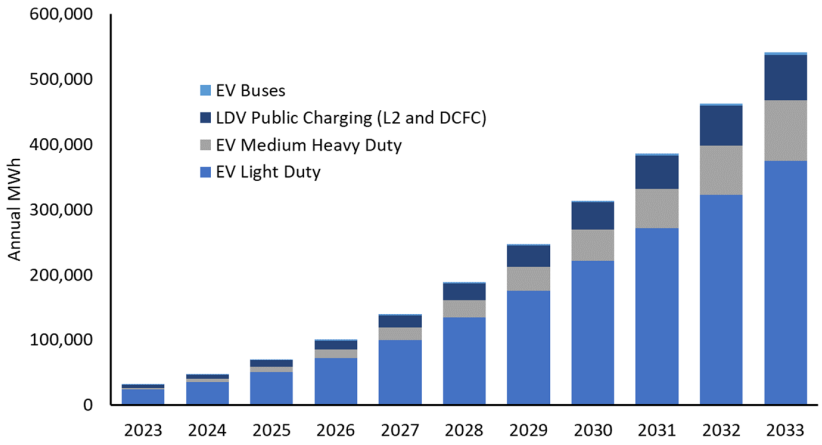
Make Ready Program: One-time customer incentives covering the utility-side and customer-side make-ready infrastructure costs associated with Level 2 (L2) and direct current fast charging (DCFC) installations



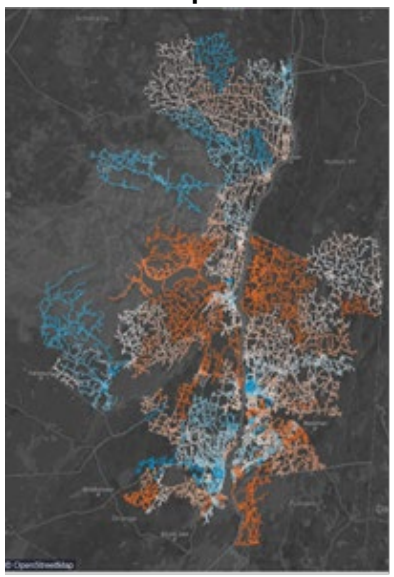
Goals:

L2	2,037
DCFC	416

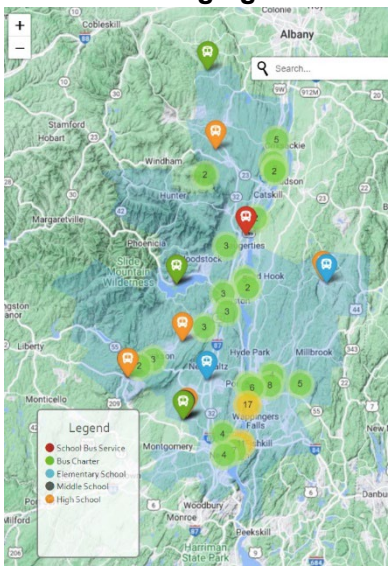
EV Forecasted Growth & Adoption



Light Duty EV Adoption



DCFC & Public Charging



Make Ready: https://www.cenhud.com/en/my-energy/electric-vehicles/EV-make-ready-program/light-duty-make-ready-program/

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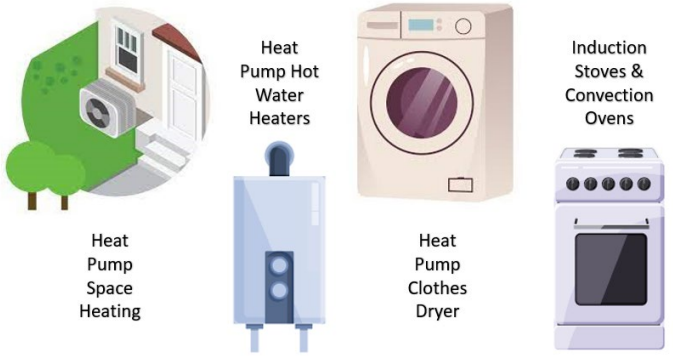
Non-Pipeline Alternatives

Overview

- Alternative to traditional main replacement
- The Company proposed to incorporate NPA projects into its system planning process in its 2017 Rate Case
- The Company has a target of at least 15 miles of Leak-Prone Pipe (LPP) replacement per year

Whole Home Beneficial Electrification Program

- No cost to the customer
- Gas using equipment (heating and appliances) replaced with electric devices.
- Includes “make-ready” costs (i.e. panel and wiring upgrades)
- 100% participation of gas using customers required in each location
- Ideal for low saturation areas with high replacement cost



2023 Central Hudson Non-Pipes Alternative Annual Report: https://documents.dps.ny.gov/public/MatterManagement/MatterFilingItem.aspx?FilingSeq=316971&MatterSeq=54153

Natural Gas-to-Electric Incentive Offer: Whole House Beneficial Electrification Program: Invitation Only (cenhud.com)

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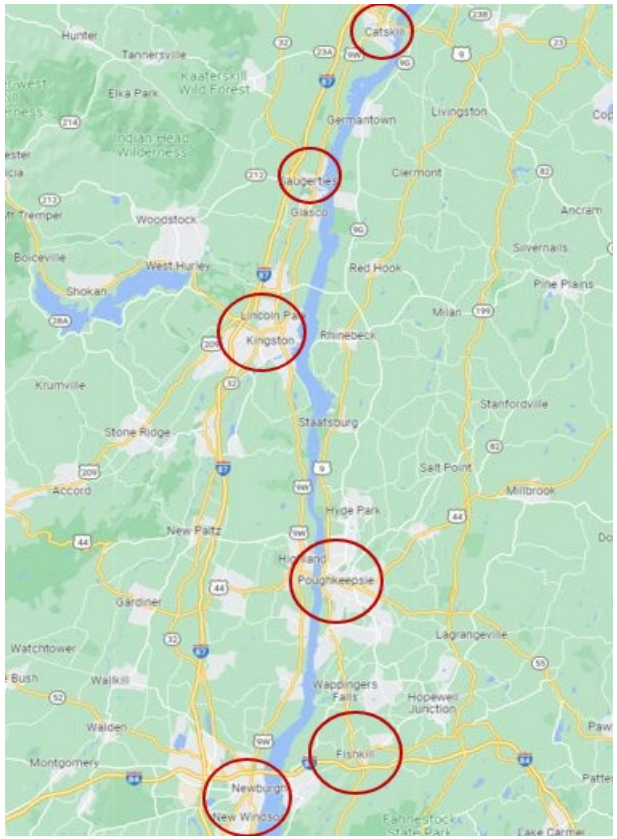
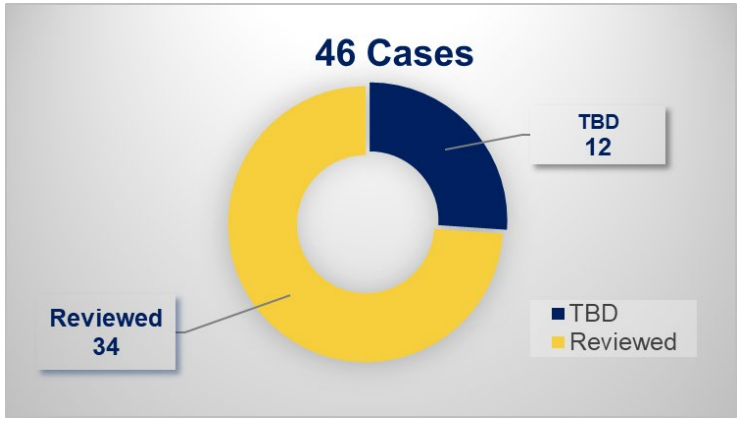
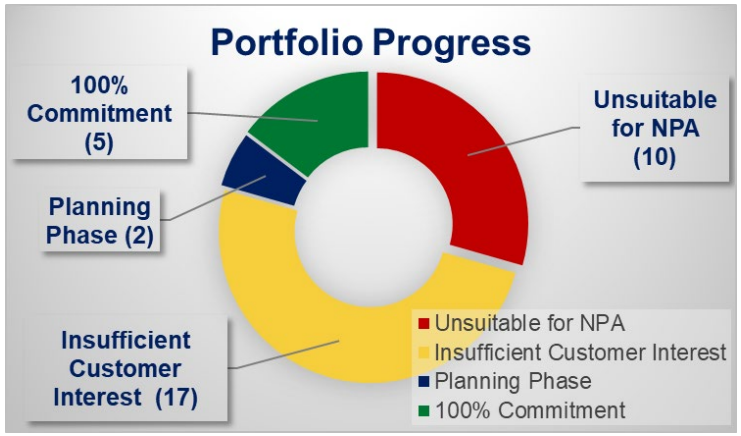
Non-Pipeline Alternatives

Progress

- 46 potential cases identified in 11 municipalities
- 34 cases fully reviewed with Benefit Cost Analysis
- Marketing and outreach conducted on 24 cases
- 5 cases, 10 homes converted to full electrification
- 80% of converted locations fall within DACs
- 2,140 feet of LPP eliminated







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Utility Thermal Energy Networks

James Keating
Director, Gas Transformation and Planning

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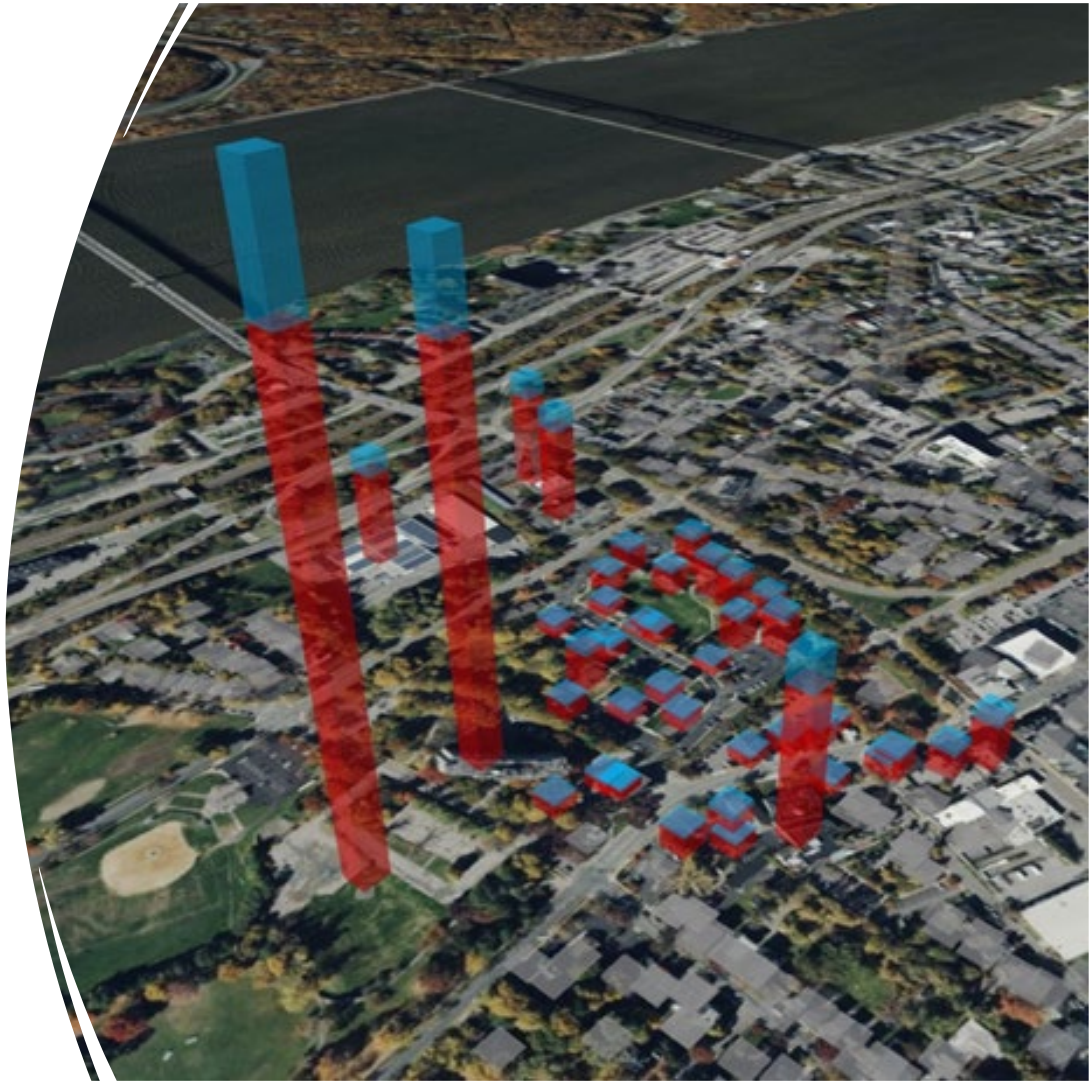
Utility Thermal Energy Network and Jobs Act

- Decarbonize building emissions with utility scale thermal loops.
- Provides pathway for utility investment / ownership.
- Utilization of skilled craft persons.
- CH designing Pilot Project anchored with New Youth Community Building (The You) and Low-Income Housing in Poughkeepsie.
- Serving DAC and collaborating with a Community Coalition.
- Final Stage 1 Pilot submitted on December 15th.



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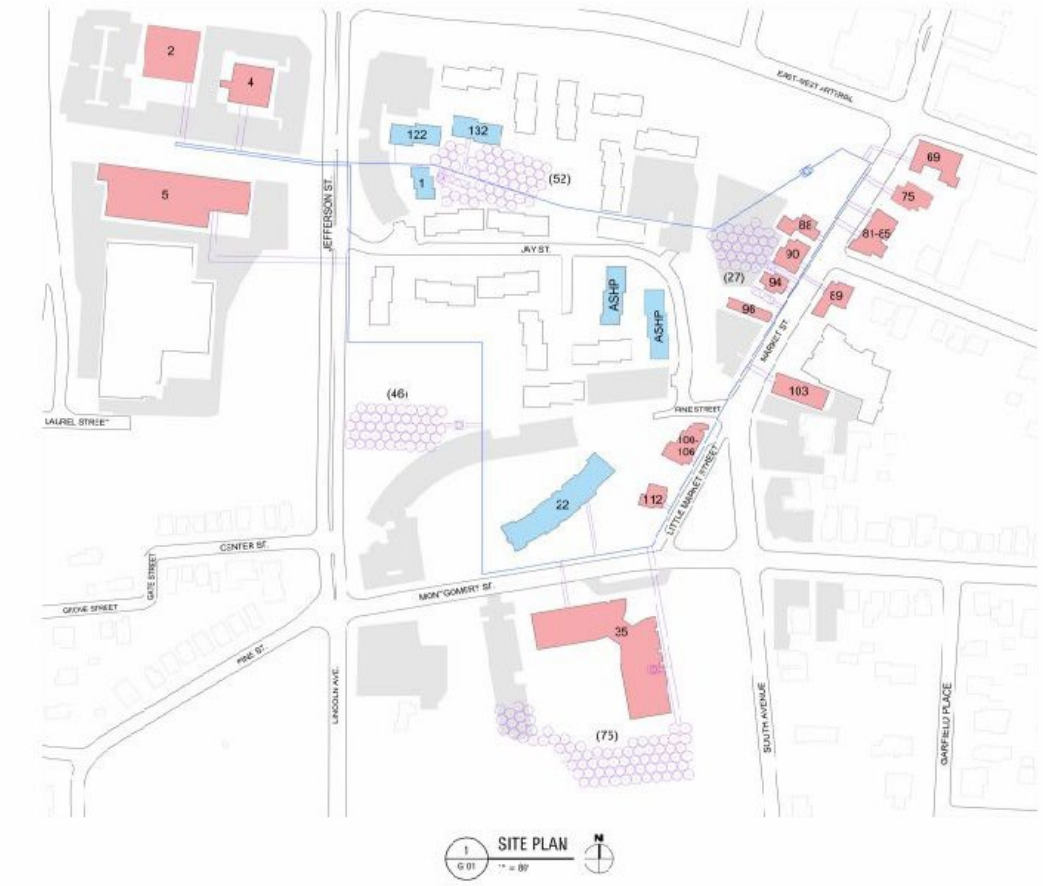
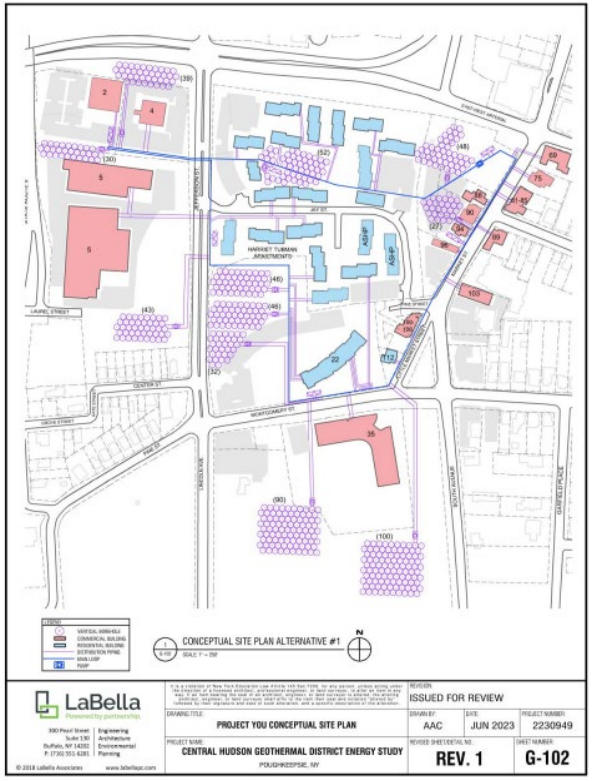
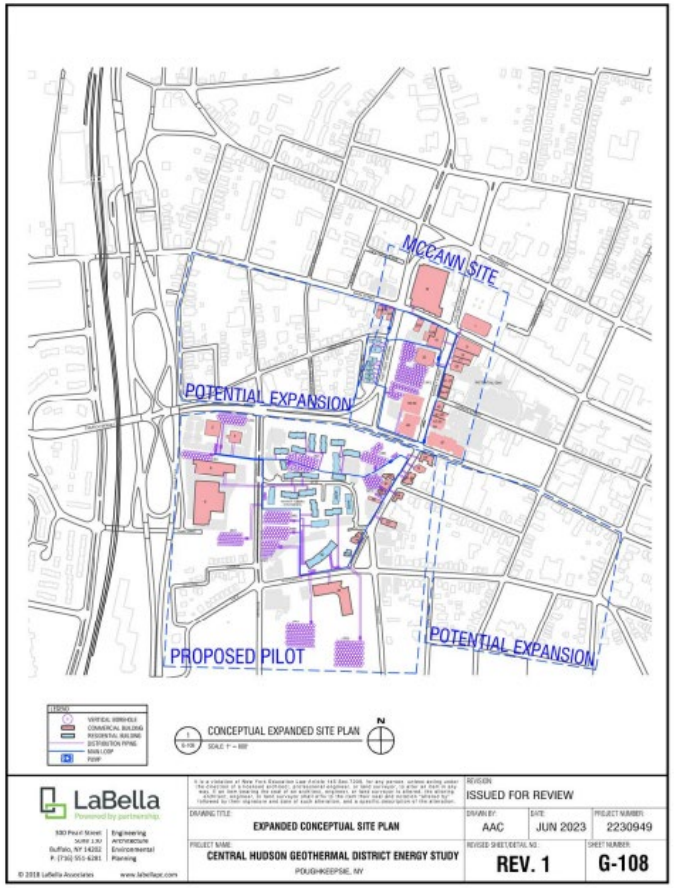
Preliminary Design

- Single 12” Pipe Ambient Loop
- Potential to Serve 17 Non-Residential and 38 – Residential buildings.
- Serve heating and cooling needs
- Bore fields around the distribution network.



Design that Evolves and Grows into the Community





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Next Steps

- Initial Long-Term Plan will be filed on January 16, 2024.
- Technical Conference will be held in February 2024.
- For more information Long-Term Gas System Plan (cenhud.com)

Questions

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