



COMMITTED TO MINNESOTA
NULOOP PARTNERS

AL SWINTEK

LOCAL GOVERNMENT RELATIONS

January 28, 2020

#### **AGENDA**

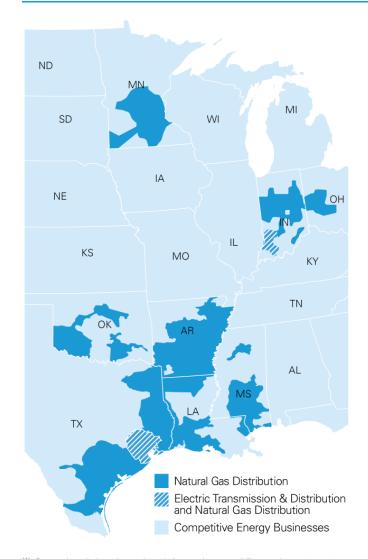


- 1. Company Overview
- 2. Commitment to Safety, Reliability, Affordability & the Environment
- 3. Innovative Technologies
- 4. Next steps ... What you can do to save energy and reduce GHG emissions

#### **CENTERPOINT ENERGY AT A GLANCE**

#### 7+ MILLION CUSTOMERS





### **Gas Utility Services**

Regulated gas distribution jurisdictions in eight states with

- 4.5 million customers = 2<sup>nd</sup> largest in the U.S.
- 119,000 miles of pipe, largest in the U.S.

#### Minnesota Gas

- 860,000 customers = largest in MN
- 260 communities
- 1,200 employees



<sup>(1)</sup> Operational data based on information as of December 31, 2017

<sup>(2)</sup> Does not include approximately 72,000 natural gas customers as of December 31, 2017 that are under residential and small commercial choice programs invoiced by their host utility

# **CENTERPOINT ENERGY - MINNEAPOLIS**AT A GLANCE



- Minneapolis roots run deep
  - > Founded in 1870 near the Guthrie
  - ➤ Over 725 Employees
  - > 932 miles of gas main
  - > Serving 133,600 homes / businesses
- Invested in Minneapolis
  - \$673 million infrastructure investment
  - > \$3.3 million in taxes
  - > \$8.8 million in franchise fees in 2018



### **HQ = 505 NICOLLET MALL, A LEED SILVER BUILDING**

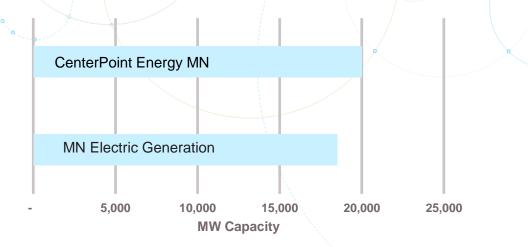




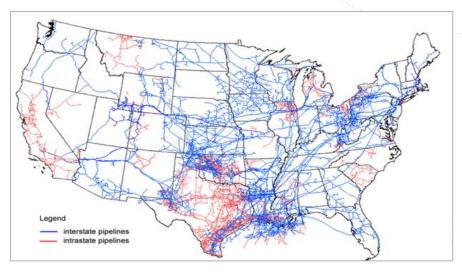
### COMMITTED TO RELIABILITY: COMPARING NATURAL GAS AND ELECTRIC GRIDS



- Minnesota's nameplate electricity capacity is 18,500 MW
- During the 2019 polar vortex CenterPoint
   Energy alone delivered 1,495,000 Dth (438,000 MWH) with maximum system load of 20,000 MW



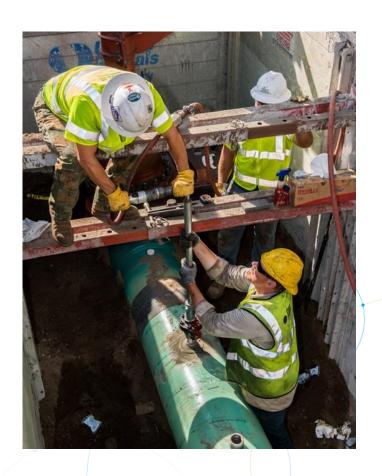
#### Map of U.S. Natural Gas Grid



### COMMITTED TO SAFETY & RELIABILITY: INVESTMENTS IN RESILIENCY



- \$1 billion invested in our Minnesota system since 2013
- \$1 billion investment anticipated for next 5 years
- Prioritizing Infrastructure Projects
  - Cast iron, Belt Line, Bare steel
- Rate Cases support ongoing infrastructure investments



# COMMITTED TO SAFETY: BEST PRACTICES



- Partnership with Gas Technology Institute
- New meter technologies
- Picarro = 1,000 x more sensitive
- Methane detectors

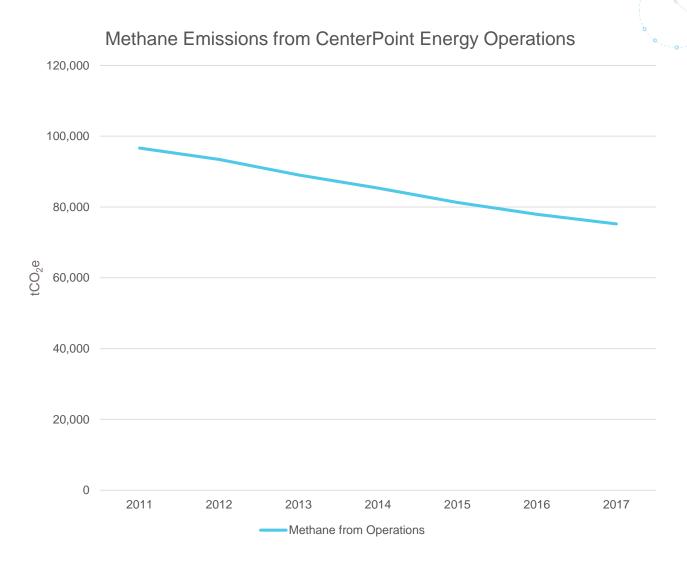


New meter technology



# COMMITTED TO THE ENVIRONMENT: REDUCING EMISSIONS FROM OPERATIONS











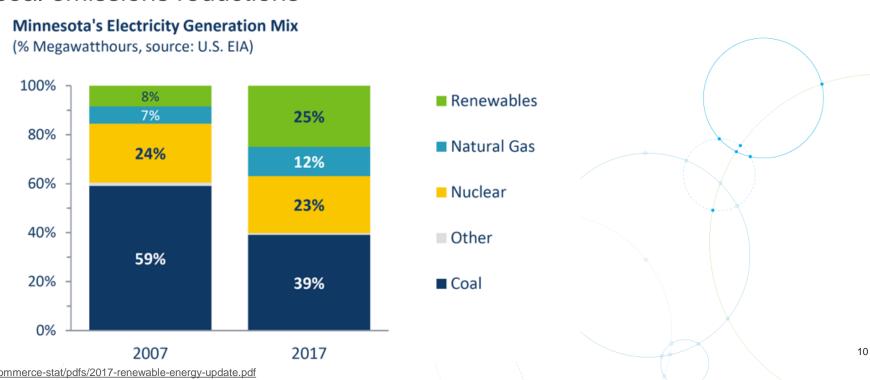
### COMMITTED TO THE ENVIRONMENT: REDUCING CARBON IN THE ELECTRIC GRID



Gas-fired electric generation enables rapid, short-term reductions in GHG.

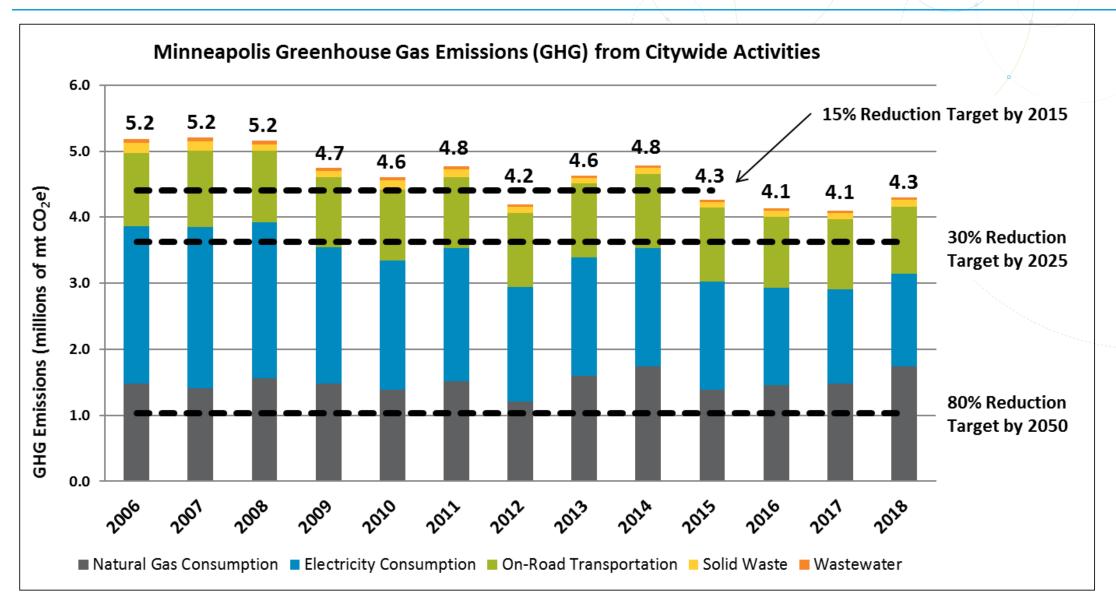
Emissions from natural gas generation are a small fraction of emissions from coal

- Overall emissions from electric generation in Minnesota have dropped 30% since 2005
- Emissions from natural gas increased 150% in the same period, but the gas emissions increase is more than offset by coal emissions reductions



#### MINNEAPOLIS GHG INVENTORY



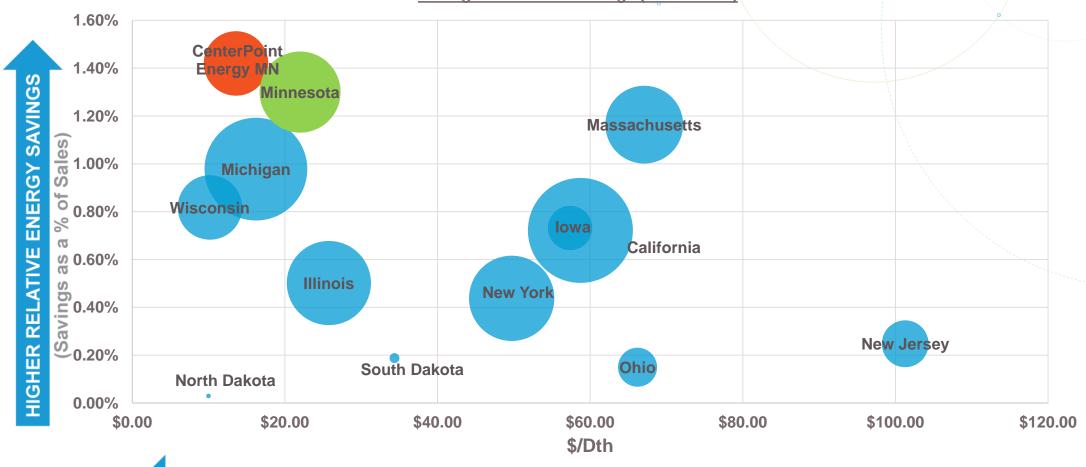


#### **COMMITTED TO THE ENVIRONMENT:**

#### COST-EFFECTIVE ENERGY EFFICIENCY



### 2013-2017 Average Energy Efficiency Performance of Natural Gas Utilities, Average Annual Dth Savings (bubble size)

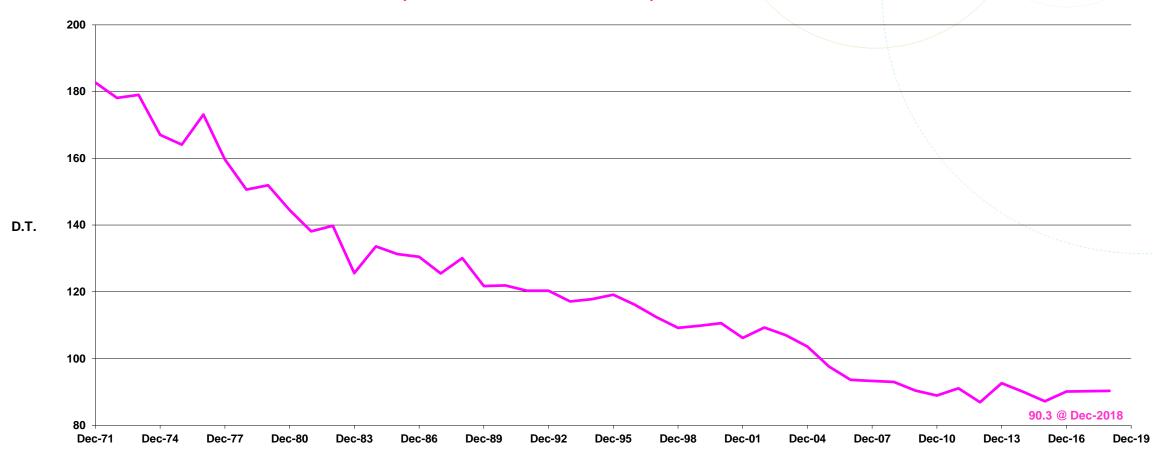


#### **MORE COST EFFECTIVE**

#### SIGNIFICANT PROGRESS ... WITH MORE TO DO



### Weather Normalized Natural Gas Consumption Per Residential Customer (10 Years Normal Weather), 1971-2018, at Year End



### COMMITTED TO THE ENVIRONMENT: EXPLORING CLEAN-ENERGY INNOVATION

CenterPoint .
Energy

- Energy Efficiency
- Low-Carbon Gas
  - RNG
  - Hydrogen
  - Power to Gas
- Carbon Offsets

- Carbon Capture (Clean O2)
- Gas Heat Pumps
- Gas/Electric Heat Pumps
- Community Thermal Loops



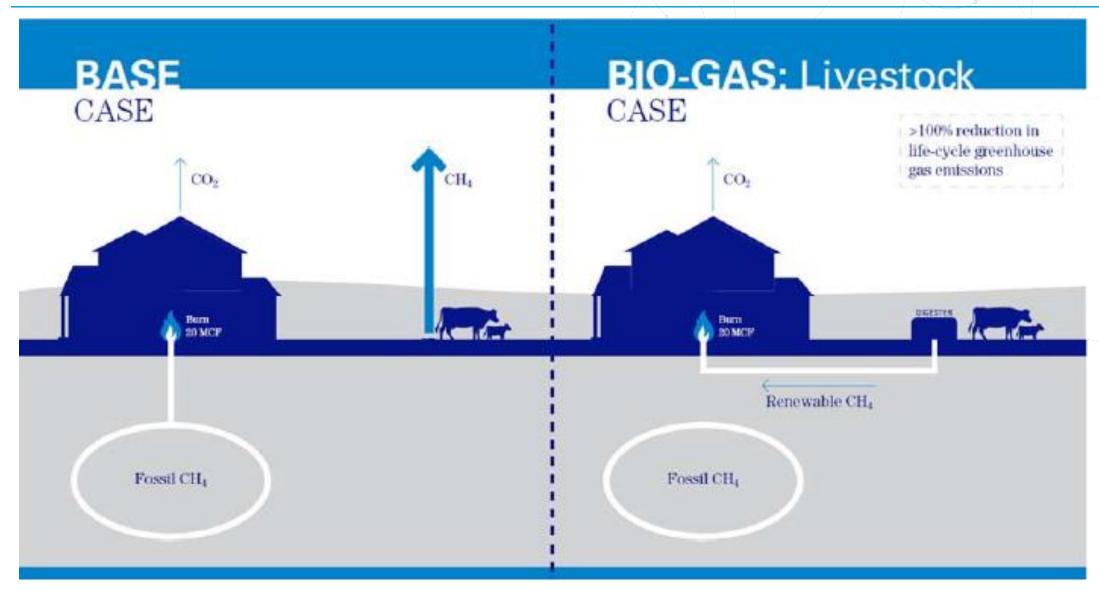
Power-to-Gas technology



Clean O2 technology

# **COMMITTED TO THE ENVIRONMENT:**BENEFITS OF RNG





# COMMITTED TO THE ENVIRONMENT: WHAT IS CLEANO<sub>2</sub>'S TECHNOLOGY?



#### Canadian start-up company

Maker of the CARBINX unit

#### Heat Recovery Unit

 Saves up to 20% in energy costs by increasing water heating efficiency

#### Carbon Capture/Conversion Unit

Reduces up to 20% of CO<sub>2</sub> emissions

#### Commercial Unit for:

- Boilers or hot water tanks: ~0.5-1.5 mmBtu
  - Non-condensing, mid-efficiency
- Multi-family, malls, schools, hospitals, fitness centers, etc.



Clean O2's CARBINX technology

### **CENTERPOINT ENERGY** LOCAL EFFORTS / BIG IMPACT



**Energy Data** Access & **Benchmarking** Resources 2019

\$20 Million invested in **Minneapolis Energy** Conservation 2016-2018

20% **Reduction in MN** pipeline emissions Since 2011

> **EZ Pay On-Bill Program** Coming Soon!

12.3% of Total CIP Vendor **Spend went to** Minority and Women**owned Business Enterprises** 2018

**AchieveMpls** Community **Partner Ally** 2019



**Energy Efficiency Programs** 

\$2 Million **CIP** Rebate for U of M CHP **Home Energy Squad Pilot** 2017 2015/16

#### CALL TO ACTION - LOWER YOUR COST & GHG EMISSIONS



- Commercial
  - Natural Gas Energy Analysis (\$200 for \$1,300)
  - Engineering and Certification Assistance ENERGY STAR, LEED Certification, etc.
- Industrial
  - Process Efficiency and Steam Trap Audit Programs
  - Process equipment and custom rebates
- Multi-Family
  - Building Efficiency Program 25% EE savings = 40% rebate. Rebates double for affordable housing.
- Numerous programs, equipment rebates and services for I/C, Food Service, and Residential customers
- For more info: www.CenterpointEnergy.com/saveenergy