



The Development and Challenges of CarbinXTM Technology

Presents
CleanO₂

Presented by Jaeson Cardiff – Inventor, CEO, and Cofounder

October 2023



CarbinX[®]

Reduced emissions from a direct capture process as well as via the built-in economizer

Energy savings by diverting waste heat back into the building

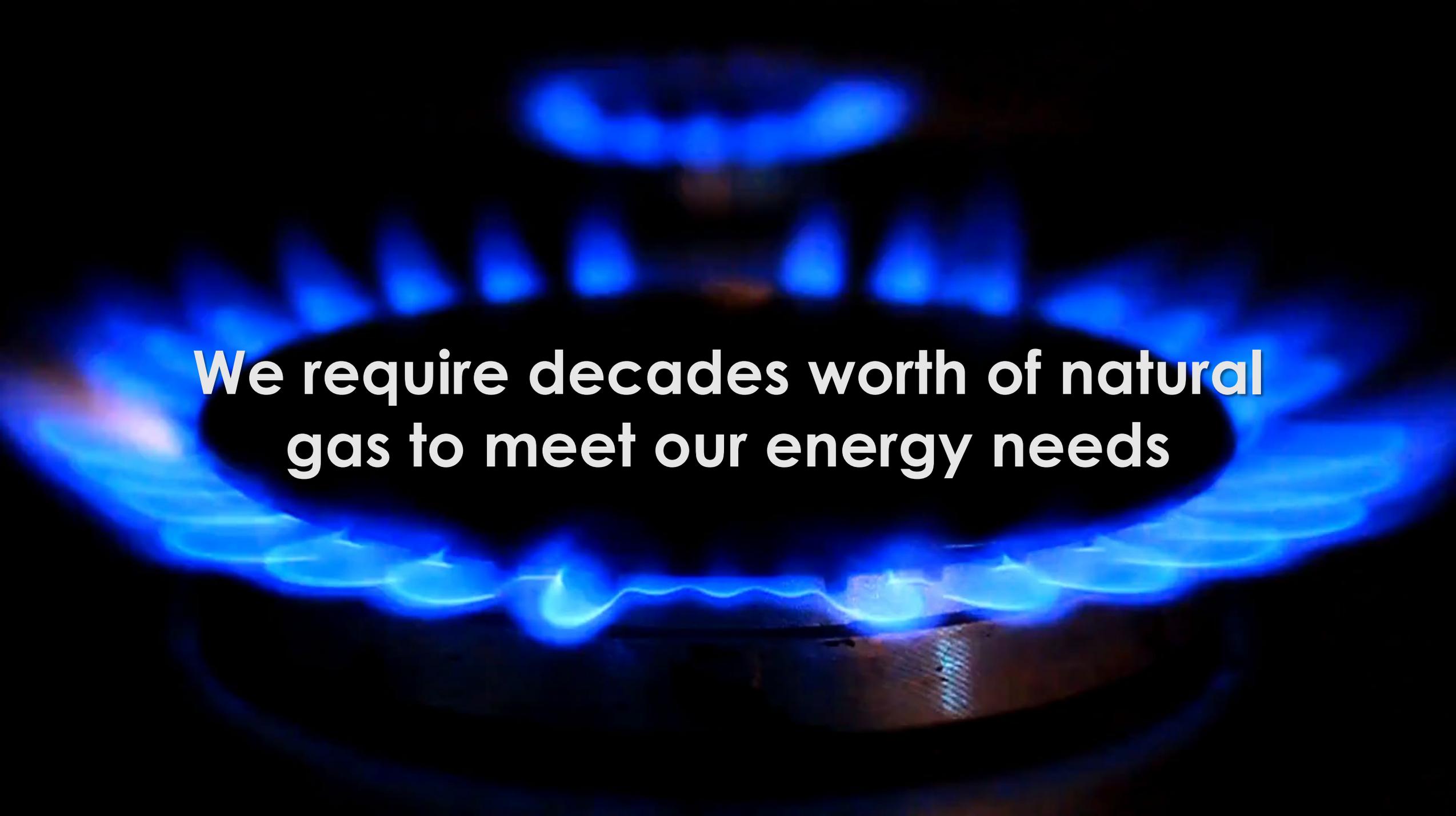
Supports the circular economy by converting carbon emissions into tangible products

An aerial photograph of a city, likely New York City, showing a dense urban landscape with a river (the Hudson River) winding through it. In the foreground, there is a large industrial building with a white roof. The city skyline is visible in the distance under a blue sky with scattered white clouds. The text is overlaid on the right side of the image.

The built sector
accounts for
15% of carbon
emissions in
North America

**Electrification is only part
of the solution**





**We require decades worth of natural
gas to meet our energy needs**

The background of the image shows two industrial smokestacks in the lower foreground, emitting thick, dark plumes of smoke that rise and spread across the sky. The sky is filled with large, billowing clouds, some of which are illuminated from below, giving them a golden or orange hue. The overall scene suggests a significant source of industrial emissions.

The global carbon capture and storage market is expected to grow from \$4.77 billion in 2022 to \$5.43 billion in 2023 at a compound annual growth rate (CAGR) of 13.72%.

63 units sold

32 units shipped

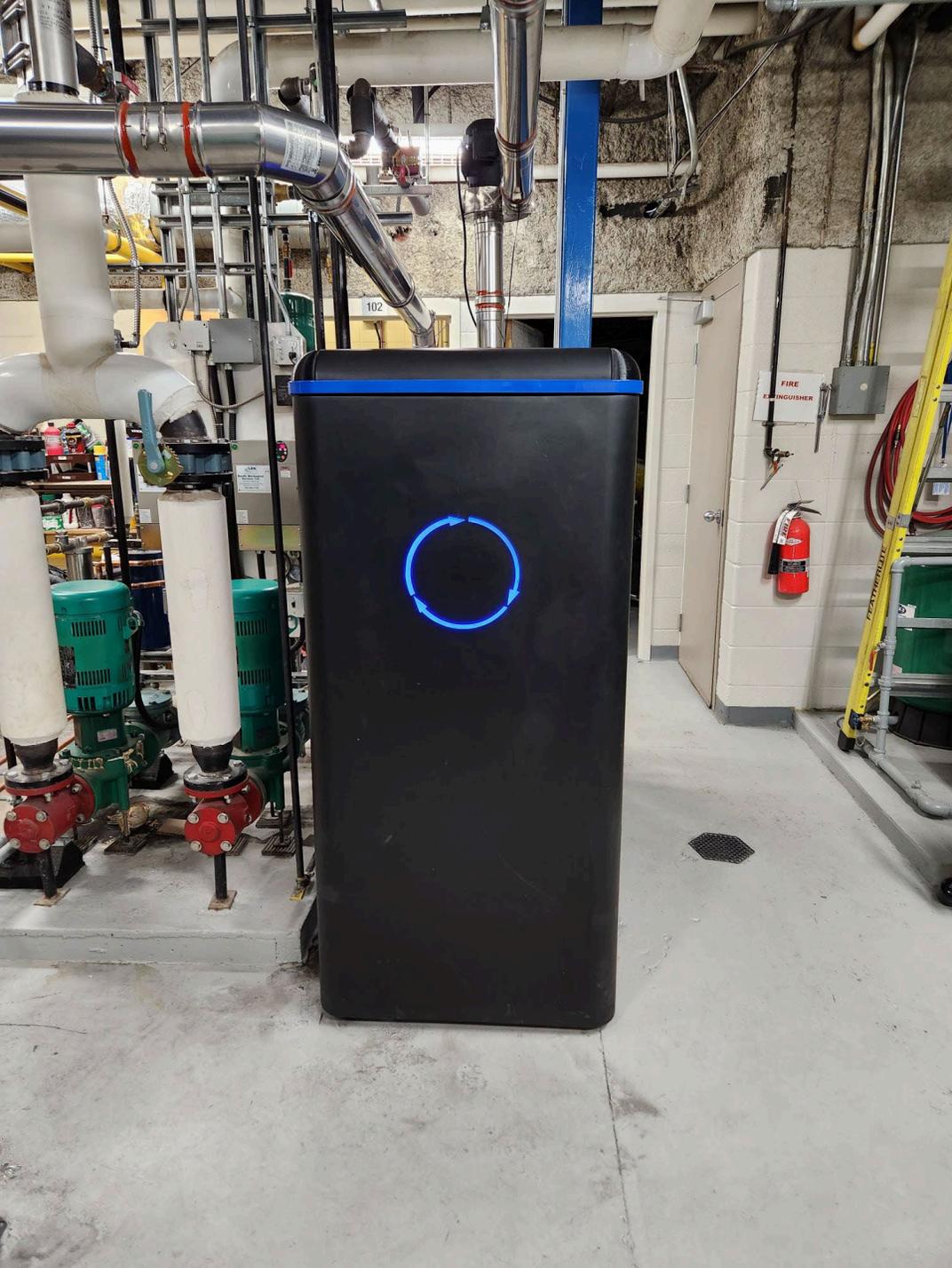
29 units installed

14 Gas Utilities

3 Countries

120 Collaborations

Where are they?



APEX 
UTILITIES INC



 TOKYO GAS



Radisson  BLU



LUSH



ATCO
Gas

A graphic element consisting of a thick black horizontal line that tapers to a point on the right, with a blue diagonal line extending downwards from the point.



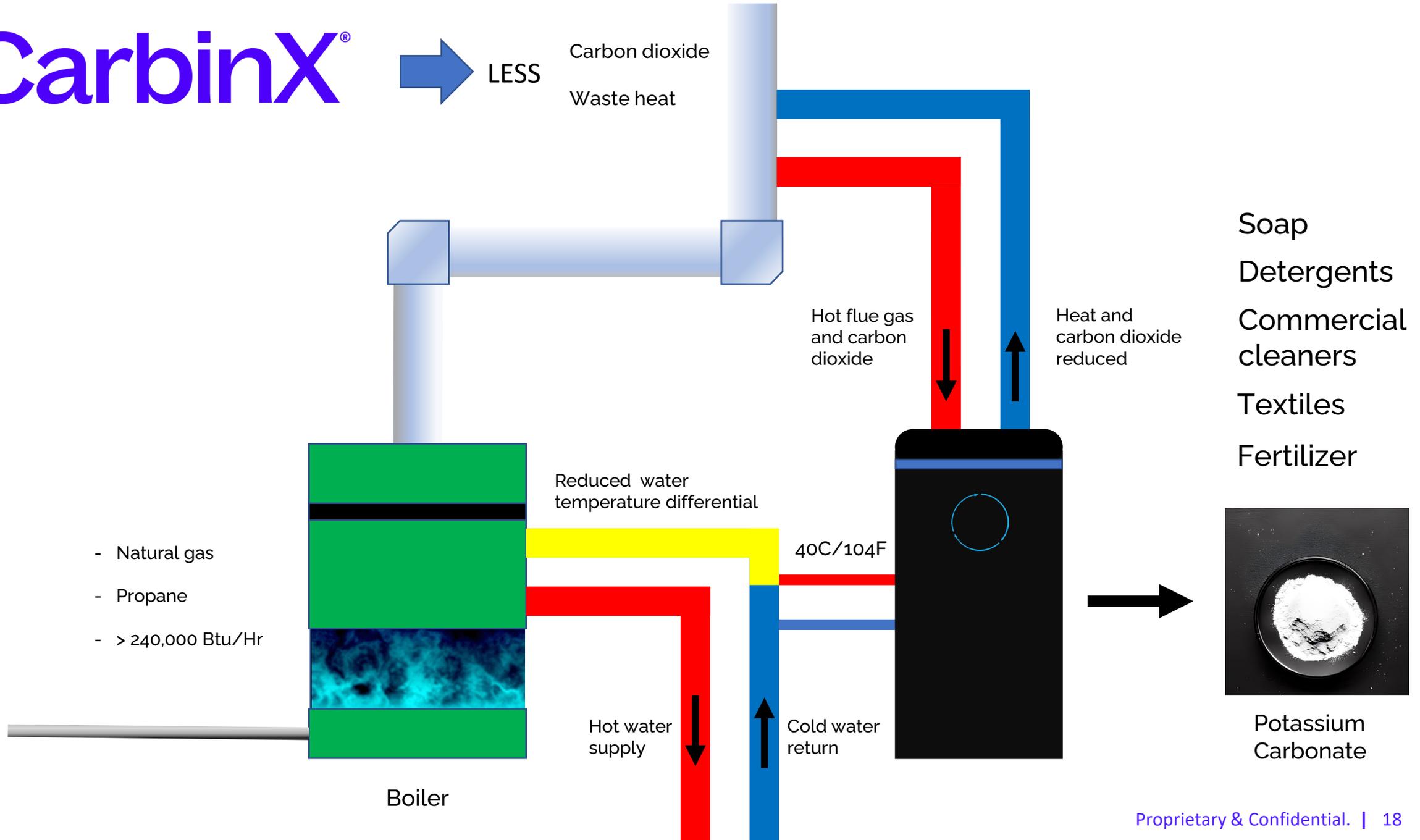


How Does It Work?

CarbinX[®]

➔ LESS

Carbon dioxide
Waste heat



- Natural gas
- Propane
- > 240,000 Btu/Hr

Boiler

Reduced water
temperature differential

40C/104F

Hot water
supply

Cold water
return

Hot flue gas
and carbon
dioxide

Heat and
carbon dioxide
reduced

Soap
Detergents
Commercial
cleaners
Textiles
Fertilizer



Potassium
Carbonate

Approvals



What's Next?



CarbinX Version 4.0 Next Generation Technology
Commercial Launch: Q3 2024
Streamlined modular design
“The impact of Version 4.0 technology could see a reduction of emissions by up to 73% per application, depending on the output of the connected appliances.”
Applicable to all natural gas boilers.

Four times the carbonate production

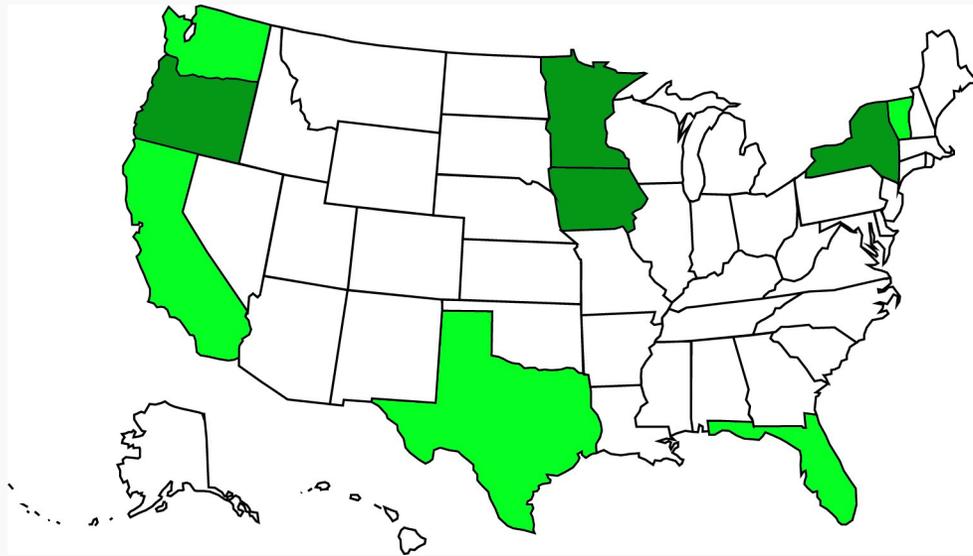
Enhanced operational and logistical performance

- IoT monitored
- Preloaded chemical cartridges
- Non-technical service personnel



Partnerships

US NATURAL GAS UTILITY PARTNERSHIPS



CANADIAN NATURAL GAS UTILITY PARTNERSHIPS



MANUFACTURING AND DISTRIBUTION



SPX group signed North American Testing and Validation Agreement and NDA; have purchased the first of four units to train employees



Partnered with Tokyo Gas to distribute CarbinX units and CleanO2 consumer products

Thank you!

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