

Introduction

- 20 MW of coal derived flue gas from Basin Electric Power Cooperative's Dry Fork Power Station.
- Simple design minimizes costs, provides flexibility & quick turnaround times.
- Designed for maximum flexibility and scalability for testing.
- Focused on larger scales to compliment NCCC and create a space for further scale up.



Who is invested in the ITC?

- State of Wyoming - \$15 million
- Basin Electric – Host at Dry Fork Station
- Tri-State G&T - \$5 million
- National Rural Electric Cooperatives Association - \$1 million
- Wyoming Infrastructure Authority – Managing Entity
- Black Hills Corp. and Rocky Mountain Power providing technical expertise and in-kind contributions
- XPRIZE Foundation – First tenant



The History of the Integrated Test Center

- 2014 - WY Legislator appropriates \$15 million with an additional \$5 million secured from Tri-State Generation & Transmission along with \$1 million pledged from the National Rural Electric Cooperative Association.
- Summer 2014 - Governor Mead hosts ITC Kickoff meeting with Black Hills Power, Pacific Power & Light and Basin Electric Power Cooperative.
- December, 2019 – TDA Research takes first flue gas.
- 2020 - ITC hosts NRG COSIA Carbon XPRIZE.
- 2021 – XPRIZE winner Carbon Upcycling Announced.
- 2022 – Construction of Kawasaki Heavy Industries (KHI) solid adsorbent system.
- 2023 – KHI begins environmental testing of solid adsorbents and MTR begins construction of their large membrane pilot.
- 2024 – MTR to commission in 2024, KHI continues testing, TDA to resume testing, and GTI to deploy to site.

Wyoming ITC Hosts EPA Administrator



- ITC was able to show technologies at a variety of stages of progress and technology readiness levels.
- ITC also received significant support from Wyoming Governor Mark Gordon.

KHI Completed Construction And Test Campaign

KHI was able to perform continuous operations of their sorbent system.



KHI Reported Results Of Environmental Testing

KHI showcase presentation.



KHI environmental monitoring for amine degradation.



MTR Construction

Fall of 2023 civil and structural work.



Building to house MTR system.



MTR Construction Continues in 2024

May arrival of controls hardware.



May, 2024 arrival of first membrane container (1/6).



Stay in Touch!

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ITC

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