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Creating a decarbonized Appalachian energy hub

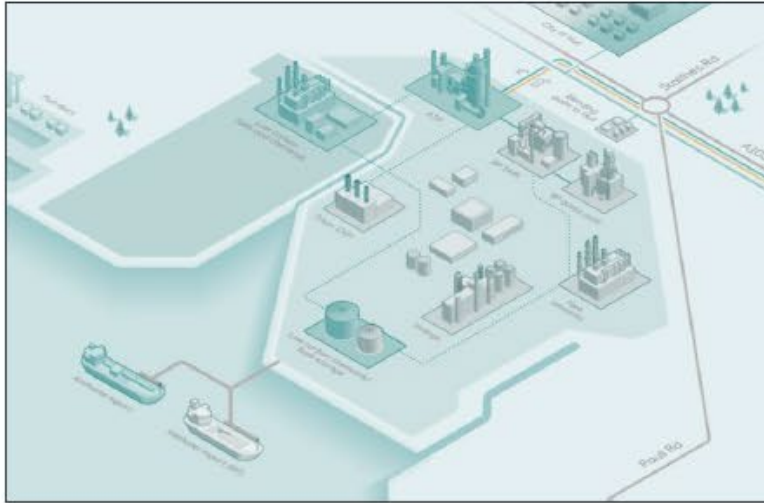
A vision for a H₂+CCUS hub in OH, PA and WV

US DOE-FECMCCUS Hubs Workshop
30 September 2021



Onshore bid – ZCH

Part 1 - H2H Saltend

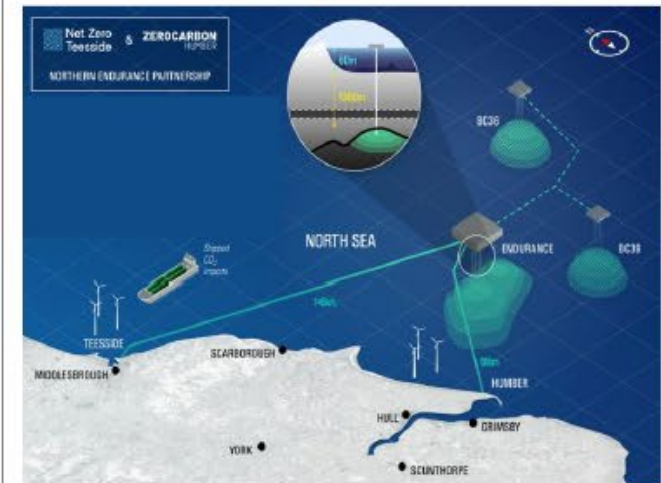


Part 2 - Onshore Low carbon infrastructure



Offshore bid - NEP

CO₂ T&S



Blue hydrogen value chain

- **ATR plant** (H₂ production) with CCS
- **Chemicals plant** (low carbon fuels for maritime)

First hydrogen off-takers:

- Triton Power + Chemicals plant
- Options: Ineos Acetyls, SSE Thermal

Onshore CO₂ and H₂ pipelines

Capacity to progress de-carbonisation projects in Humber lining up towards 2040 ambitions

Lead:

Offshore CO₂ Transport and Storage

Shared storage with Net Zero Teesside

Lead:

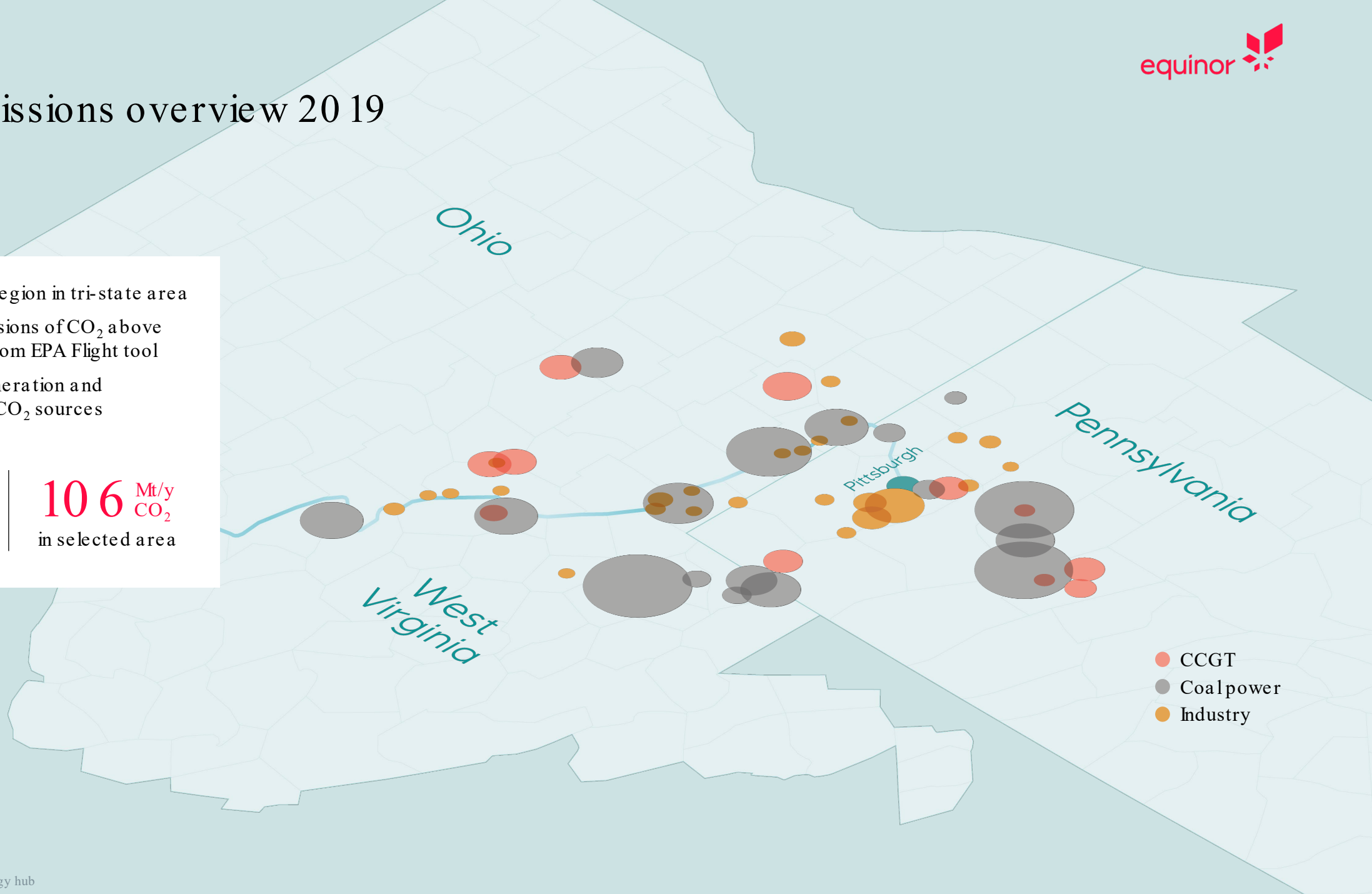
Lead:

CO₂ emissions overview 2019

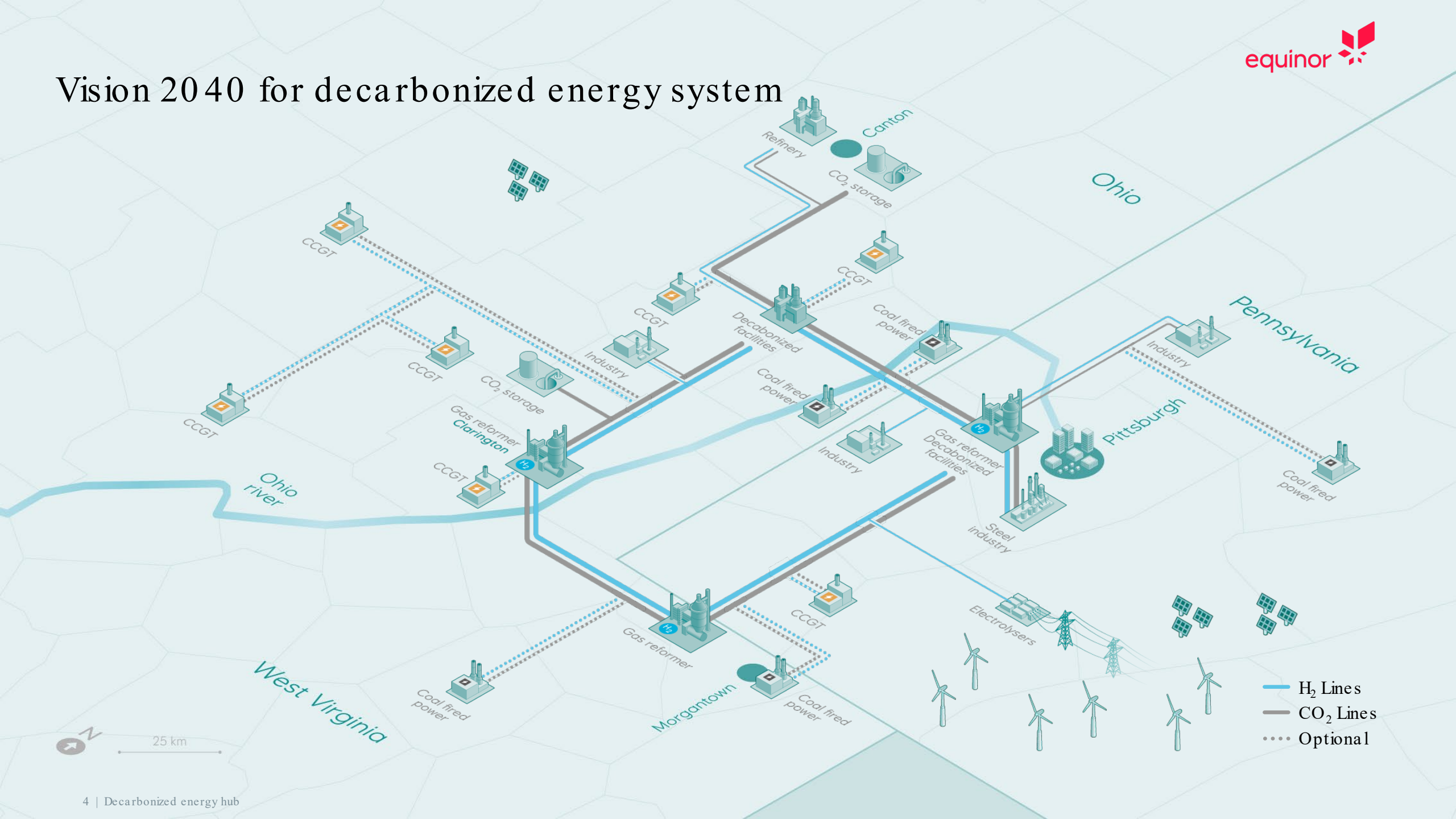
- Selected region in tri-state area
- Point emissions of CO₂ above 100 kt/y from EPA Flight tool
- Power generation and industrial CO₂ sources

63
facilities

106 Mt/y
CO₂
in selected area



Vision 2040 for decarbonized energy system



Decarbonized energy hub

Summer 2021

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