Minnesota

REGIONAL

CARBON

DEPLOYMENT INITIATIVE CARBON CAPTURE AND STORAGE POTENTIAL



## **MINNESOTA SOURCES BY INDUSTRY & VOLUME**

## FACILITIES AND EMISSIONS BY INDUSTRY



MT: Million metric tons CO<sub>2</sub>

Figure 1: Minnesota has many facilities large enough to qualify for the 45Q carbon capture tax credit, including coal and gas power plants, metals and minerals production facilities, and ethanol plants. Faciltiies identified by the Regional Carbon Capture Deployment Initiative as potential early candidates for capture retrofit based on emissions, equipment, and estimated capture cost, are shown with outlines and darker colors.

Source: Great Plains Institute 2019; EPA 2018.

Figure 2: This bubble diagram visualizes the number of facilities and corresponding annual CO2 emissions for each industry in Minnesota. The darker large bubbles are eligible for the 45Q carbon capture tax credit, while the faded bubbles are too small to be eligible. The total amount of CO2 emissions in Minnesota is listed for each industry.

Source: Great Plains Institute 2019; EPA 2018.

Maps and graphics within this document are based on work by the Great Plains Institute (GPI) to help the Regional Carbon Capture Deployment Initiative identify facilities that qualify for the federal 45Q tax credit and are optimal near-term investment opportunities for carbon capture for each state. For more information, visit **carboncaptureready.org**.

## Minnesota

CARBON CAPTURE AND STORAGE POTENTIAL

## **REGIONAL CAPTURE OPPORTUNITIES**

REGIONAL CARBON CAPTURE

DEPLOYMENT INITIATIVE



NATIONAL CAPTURE OPPORTUNITIES

Figure 3: Potential regional CO<sub>2</sub> sources and pipeline corridors for transportation to utilization and storage sites as modeled by the Regional Carbon Capture Deployment Initiative.

Source: Great Plains Institute 2019; EPA 2018.

The **Regional Carbon Capture Deployment Initiative** brings together state officials with diverse industry, NGO, labor, and other stakeholders to promote broad scale deployment of infrastructure for carbon capture,  $CO_2$  pipelines, enhanced oil recovery (EOR), other forms of geologic storage, and beneficial utilization of  $CO_2$  in the Western and Midwest regions of the country.

The Initiative is staffed by the Great Plains Institute (GPI), a nonpartisan, nonprofit working to transform the energy system to benefit the economy and environment. For more information on this effort, go to carboncaptureready.org or contact Patrice Lahlum at plahlum@gpisd.net.

Figure 4: Potential national CO<sub>2</sub> sources and pipeline corridors for transportation to utilization and storage sites as modeled by the Regional Carbon Capture Deployment Initiative.

Source: Great Plains Institute 2019; EPA 2018.

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