

Marquis Industrial Park: Employing BECCS to Decarbonize the Economy

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Background/Objectives. The Marquis Industrial Park is home to the production of over 400 million gallons of ethanol production a year that captures over 1 million tons of carbon dioxide. Marquis will sequester this carbon, therefore decreasing the carbon intensity of the ethanol that is produced.

Approach/Activities. Marquis is located on the Mt. Simon sandstone formation that is suitable for the sequestration of carbon dioxide. Marquis has drilled a stratigraphic well to confirm the integrity of the caprock, salinity of the formation, and determined the suitability parameters for carbon sequestration.

Results/Lessons Learned. The ethanol produced will have an Argonne GREET 2021 carbon intensity score near neutral which will allow for the development of technologies such as sustainable fuels, low carbon intensity polymers, and chemicals.