

# A Survey of U.S. CO<sub>2</sub> Enhanced Oil Recovery Projects

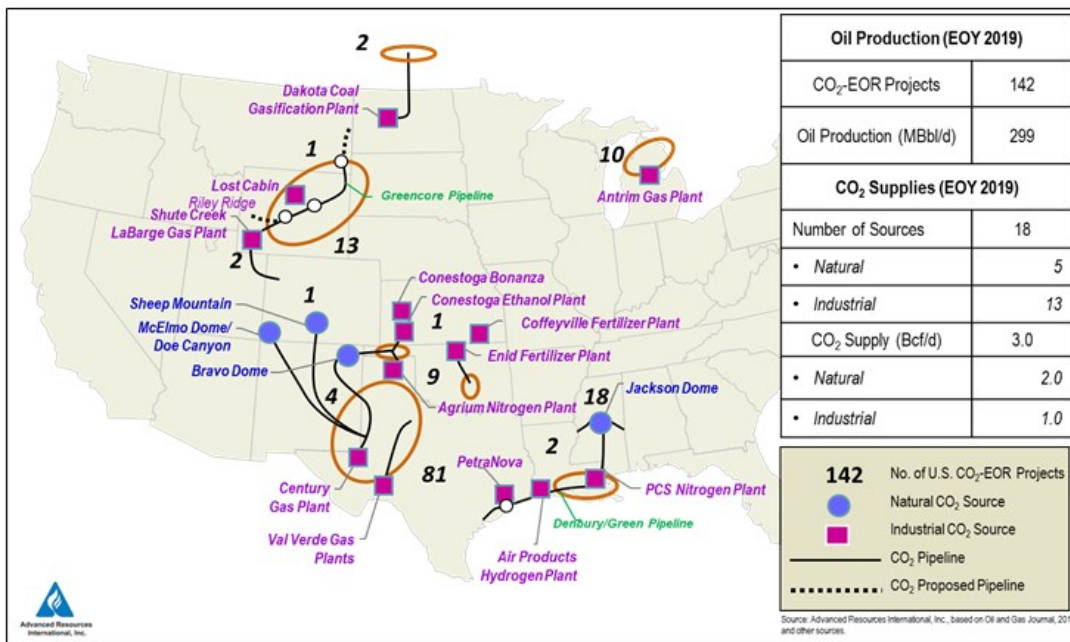
Enhanced production totals, reservoir characteristics, and project parameters for active CO<sub>2</sub> EOR operations in the U.S. as of end-of-year 2019.

The purpose of this survey is to provide a comprehensive status report of active CO<sub>2</sub> EOR projects in the U.S., as of end-of-year 2019. This survey provides the first update of CO<sub>2</sub> EOR project data since the final publication of the Oil & Gas Journal (OGJ) EOR Survey in 2014.

The 2019 U.S. CO<sub>2</sub> EOR survey shows that incremental oil recovery from CO<sub>2</sub> EOR in the U.S. has held steady at approximately 300,000 barrels of oil per day. A total of 3.0 Bcf per day of CO<sub>2</sub> is purchased for CO<sub>2</sub> EOR, including 1.0 Bcf per day from “industrial” sources, which represents an increase of 30% over the last seven years.

Carbon management, in the form of CO<sub>2</sub> capture and storage, is the most viable pathway to meeting significant carbon emission reduction targets over the next several decades. This survey demonstrates the value and potential of CO<sub>2</sub> EOR to the overall carbon management strategy in the U.S.

Periodic updates will be made to this survey to include the latest CO<sub>2</sub> EOR project data available. This publication is intended as a public resource for petroleum and energy industry stakeholders, and is offered free of charge by ARI. The next survey update is anticipated for Fall 2021.



## Survey at a Glance

**Total projects:** 142

**Total operators:** 25

**Total CO<sub>2</sub> EOR oil prod.:**  
300,00 bbl/d

- **Permian Basin (TX, NM):**  
204,000 bbl/d
- **SE Gulf Coast (MS, LA, TX):**  
43,000 bbl/d
- **Mid-Continent (OK, KS):**  
11,000 bbl/d
- **Rockies (CO, UT, WY, MT):**  
39,000 bbl/d
- **Michigan:**  
1,400 bbl/d

**Total CO<sub>2</sub> Supply:** 3.0 Bcf/d

- **“Natural” CO<sub>2</sub>:** 2.0 Bcf/d
- **“Industrial” CO<sub>2</sub>:** 1.0 Bcf/d

## Survey Team

**Advanced Resources Intl.**  
George Koperna  
Matt Wallace  
Teresa Reid

**Melzer Consulting**  
Steve Melzer

**WY EORI**  
Lon Whitman

Special thanks to the engineers and operators who provided valuable feedback to complete this survey:

Amplify Energy,  
Kate Ryan – Denbury,

Ray Ambrose – Elk Petroleum,  
Fleur De Lis,

Alan Shatton – TransPetco,  
Gary Teletzke – XTO,

David Hampton – OXY,  
Bob Mannes – Core Energy

For more information, please contact Matt Wallace via e-mail at [mwallace@adv-res.com](mailto:mwallace@adv-res.com).





