

Midwest Regional Carbon Initiative (MRCI) Hydrogen Workshop

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Forward Looking Statement

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Marathon Petroleum Integrated System



Refining & Marketing

- 2.9 million barrels per calendar day of refining capacity from 13 refineries in 12 states
- 7,209 branded locations where independent entrepreneurs maintain primarily Marathon-branded stations
- 1,172 direct dealer locations, primarily in Southern California, largely under the ARCO brand
- Renewable fuel production includes facilities in Dickinson, North Dakota, and Martinez, California.

(Martinez currently in development)

Midstream

- 12 billion standard cubic feet per day of natural gas processing capacity
- 40.3 million barrels of terminal storage capacity
- Transports, stores, distributes and markets crude oil, refined products and renewables via refining logistics assets, pipelines, terminals, towboats and barges
- Gathers, processes and transports natural gas
- Gathers, transports, fractionates, stores and markets natural gas liquids
- Owns the general partner of MPLX LP

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Clean Hydrogen Infrastructure – Development

The industry can responsibly develop logistics and storage solutions to enable the clean hydrogen value-chain

Challenges:

Earning and staying stakeholder trust

New markets will require safe, reliable, and scaled logistics and energy storage solutions

CO₂ management

Clean hydrogen includes CO_2 capture, transport, storage and/or utilization **and** renewable power

Class VI timelines, nascency, and public reception places complex risks within development stages

Industry parameters

Hydrogen blending into existing systems could create a streamlined bridge to achieving scale



NOTES:

1. SEE MARATHON PIPE LINE PERMIT FOR ADDITIONAL REQUIREMENTS.

2. CONFIGURATION DOES NOT INCLUDE ADDITIONAL TEMPORARY WORKSPACE AT CROSSINGS.

3. IN ACTIVE CROP AND PASTURE AG LANDS TOPSOIL WILL BE STRIPPED FROM ENTIRE WORKSPACE.

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Clean Hydrogen Storage – Project Overview

The Storage Facility consists of creating underground storage caverns in **bedded salt approximately 6,000 feet below surface.** MPC has completed coring and subsequent laboratory testing and has established the viability of creating salt caverns with suitable volume potential.

The main components of the Storage project include:

- fresh water source ⁽¹⁾;
- leach plant ⁽²⁾;
- drilling cavern wells;
- cavern conversion;
- brine disposal system;
- brine ponds ⁽³⁾; and
- topside hydrocarbon and hydrogen facility ⁽⁴⁾.

⁽⁴⁾ topside facility consists of pumps, meters, sampling, flare system, piping, wellheads, fire water system, and controls system



MPC has Deep Experience Completing Caverns in the Region

exploring responsibly sourced water options, e.g., surface runoff, abandoned mines, etc.
utilized for solution mining

⁽³⁾ multiple brine ponds are utilized for cavern operations; brine pumped to cavern displaces product for market use/transportation

Thank You

