

Olive Creek I – Hallam, Nebraska

Summary

- Olive Creek I
- Commercial scale
- 2020-present
- H production: ~5 ktpa
- C production: ~15 ktpa



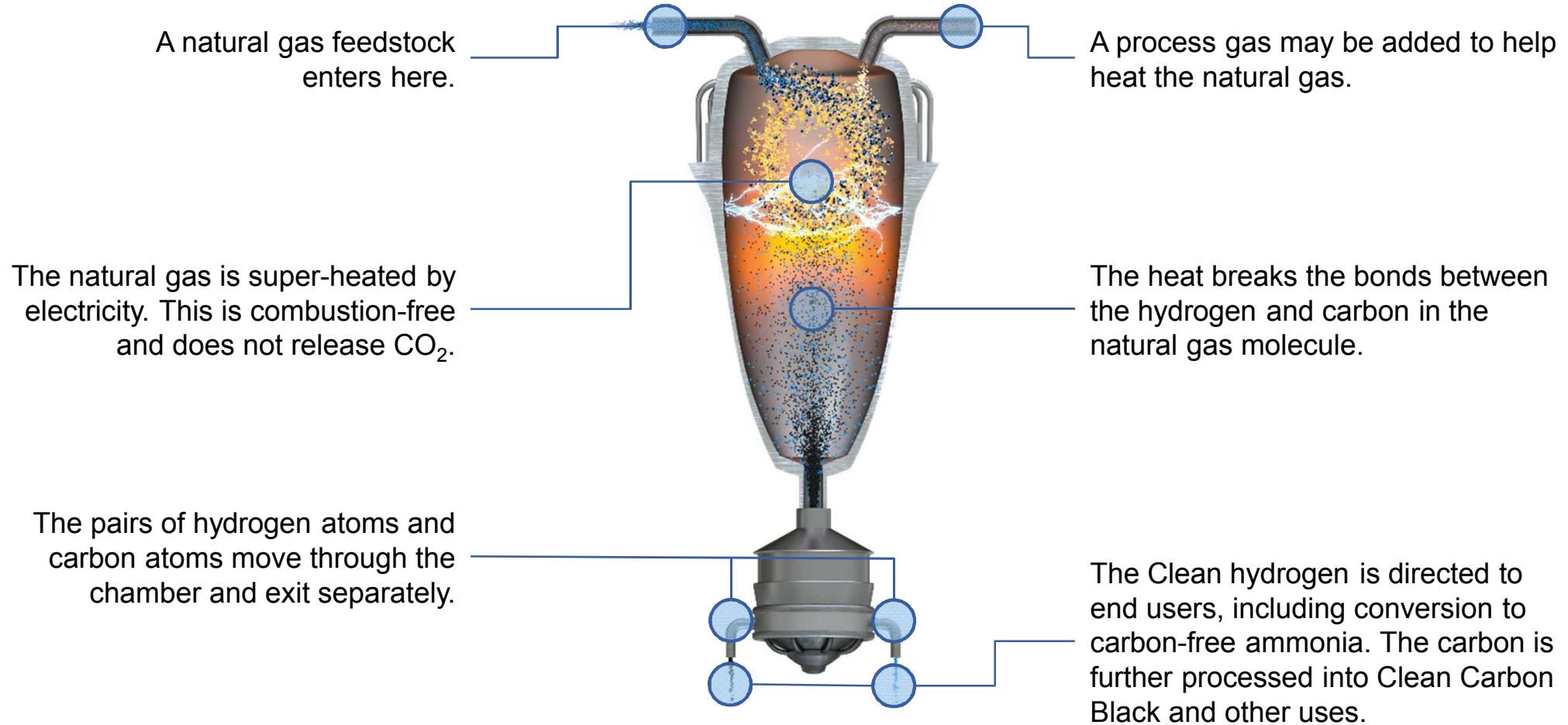
Olive Creek II – Hallam, Nebraska



Summary

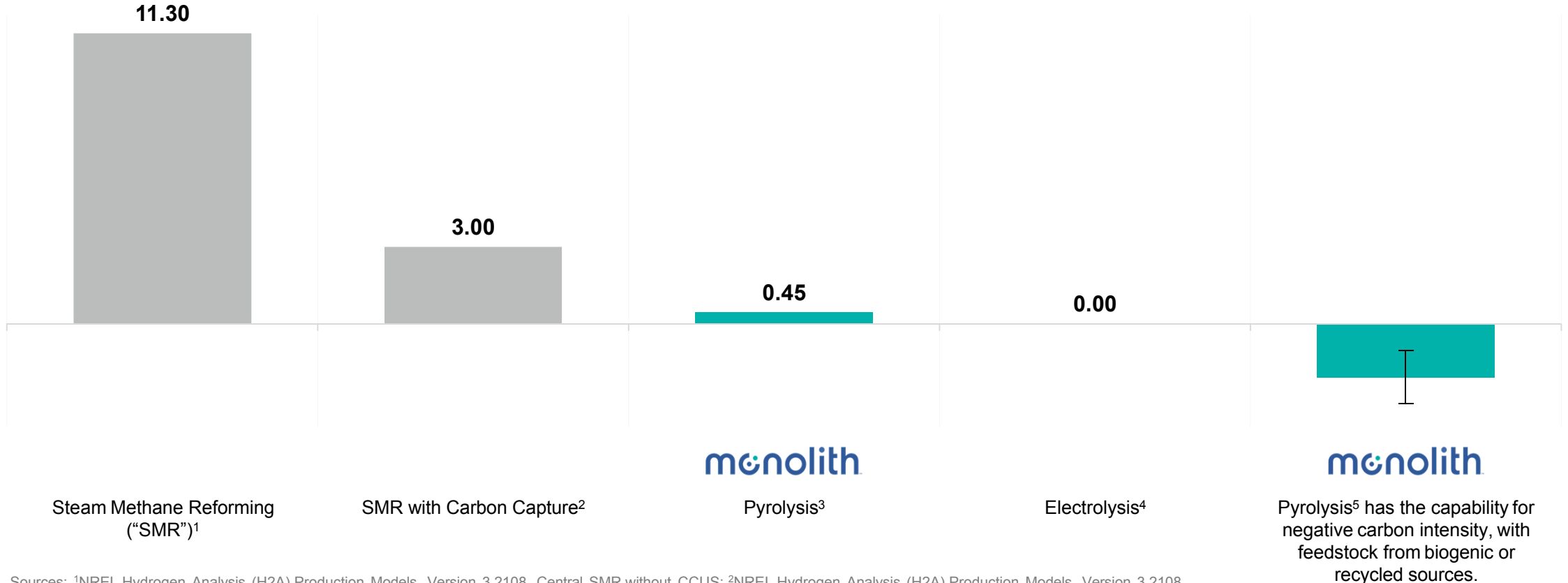
- Olive Creek II
- Commercial Scale
- 2026 (target)
- H production: ~60 ktpa
- C production: ~180 ktpa

Methane Pyrolysis Process



Carbon Intensity of Monolith's Hydrogen Production

Well To Gate (kg CO₂e / kg H₂)



Sources: ¹NREL Hydrogen Analysis (H2A) Production Models, Version 3.2108, Central SMR without CCUS; ²NREL Hydrogen Analysis (H2A) Production Models, Version 3.2108, Central SMR with CCUS; ³Based on third party study using GREET1_2020 and AR5 GWP (CO₂, N₂O, CH₄); ⁴NREL Hydrogen Analysis (H2A) Production Models, Version 3.2108, Central Electrolysis (Process emissions only); ⁵Based on third party study using GREET1_2020 and AR5 GWP (CO₂, N₂O, CH₄)

Electrolysis and pyrolysis assume 100% renewable energy. RNG refers to "renewable natural gas".