

# Fact Sheet

## About

Monolith's vision to build the world's leading clean hydrogen and clean materials company. The company's proprietary commercial-scale methane pyrolysis process uses 100% renewable power to superheat, not burn, conventional and renewable natural gas to create Green Hydrogen and carbon black in an environmentally advantaged manner. Founded in 2012 by Rob Hanson and Pete Johnson, Monolith was formed on the belief that you could build both a profitable company and create a cleaner world using technology.

## Monolith Products

**Green Hydrogen:** Emissions-free, economically sustainable hydrogen manufactured using 100% renewable energy

**Carbon Black:** A critical raw material often used in the automotive and industrial sectors for tires, manufactured rubber goods, plastics, tinting and protective coatings

**Ammonia:** Carbon-free anhydrous ammonia primarily used in the agriculture sector

## Monolith's Process

Monolith perfected and scaled methane pyrolysis, a process first patented more than 100 years ago. Monolith's methane pyrolysis process takes traditional or renewable natural gas and superheats it to break the bonds between the carbon and hydrogen in the natural gas molecule and separates the resulting atoms into hydrogen and carbon. Monolith then converts that carbon into high-value carbon black. This clean, highly efficient, environmentally responsible process creates virtually zero local emissions when traditional natural gas is used. When renewable natural gas is introduced into Monolith's process, the resulting emissions are carbon-negative.

## Fast Facts

- Headquartered in Lincoln, Nebraska, USA
- Monolith's production facility near Hallam, NE is:
  - The first commercial scale, greenfield, carbon black production facility built in the U.S. in over 50 years.
  - The largest CO<sub>2</sub> free stand-alone hydrogen plant in the world.
- Founded in 2012
- Nearly 150 employees
- CEO: Rob Hanson
- When using traditional natural gas, Monolith's process is virtually carbon-free. When renewable natural gas is introduced into the process, Monolith's CO<sub>2</sub> emissions become carbon negative.
- Monolith is scheduled to begin construction on its expansion facility in Hallam, NE during Q4 of 2021. The facility will:
  - Produce 275,000 metric tons of ammonia per year
  - Produce 194,000 tonnes of clean carbon black per year
  - Eliminate 1 million tons of CO<sub>2</sub> from entering the atmosphere compared to traditional carbon black and ammonia production processes.