SAFETY

Producing Ammonia Safely and Responsibly

Ensuring we meet the requirements for safety, transparency

At Project YaREN™, every step of our low-carbon blue ammonia production process is designed with safety and sustainability in mind.

Low-carbon blue ammonia production process

☑ Step 1: Controlled hydrogen production

We will extract hydrogen from natural gas. Carbon dioxide (CO_2) will be a byproduct of this process. Although it's colorless and odorless, CO_2 is considered a greenhouse gas that contributes to climate change. Safety controls and monitoring systems throughout our proposed facility will be designed to limit CO_2 emissions by keeping the hydrogen extraction process secure and contained at all times.

☑ Step 2: Ammonia synthesis in a sealed system

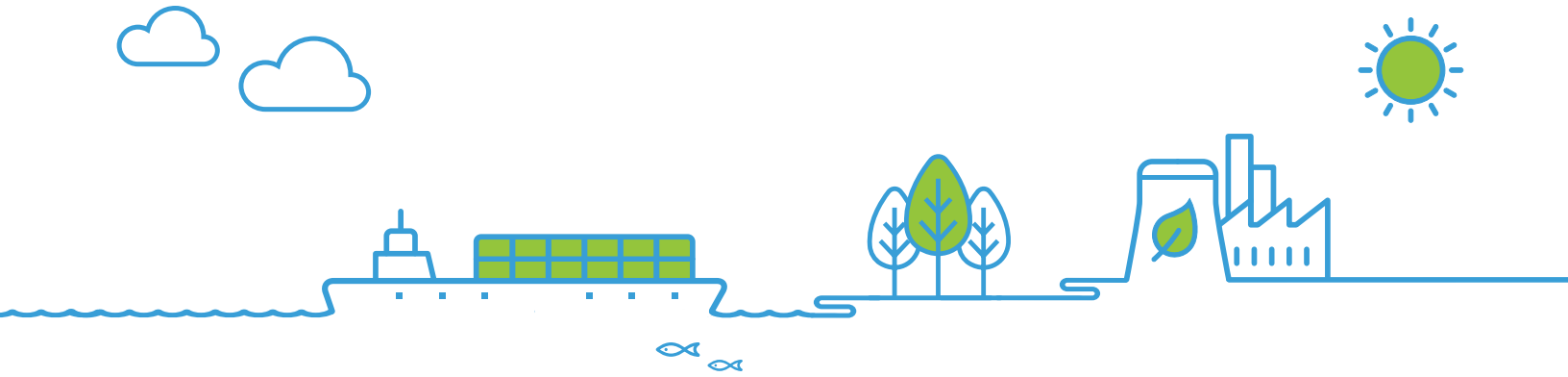
Under closely controlled high temperature and pressure, the hydrogen will be combined with nitrogen to produce ammonia. This will take place inside a fully closed-loop system designed to minimize risks of ammonia leaks and exposure to people and the environment.

☑ Step 3: Carbon capture and storage for cleaner air

Up to 95% of the CO_2 from Step 1 will be captured and stored safely underground. This important step will allow Project YaREN to protect air quality while safely delivering a clean resource to the world.

Proactive safety management

In addition to rigorous employee training and strict safety protocols, our Project YaREN team will partner with local, state and federal emergency response organizations to maintain fast, effective action plans in the unlikely event of an emergency.



YaREN

We're here to answer your questions:

Call us: 361-461-0995

Email us: inquiries@projectyaren.com

Visit us: projectyaren.com