

Air Liquide's North Las Vegas Liquid Hydrogen Production Facility

Facility Overview

- Air Liquide has invested **\$250 million** in the North Las Vegas facility and logistics infrastructure to support the region's energy transition.
- This plant is Air Liquide's **largest liquid hydrogen production site in the world**.
- The plant has the capacity to supply renewable hydrogen for more than **40,000 fuel cell vehicles** in California, allowing for accelerated development of the state's mobility market.
- The plant will produce **30 tonnes per day of hydrogen** from a steam methane reformer (SMR) process coupled with a hydrogen liquifier, both of which are Air Liquide proprietary technologies.
- The facility will be powered by **fully renewable electricity through contractual agreements with the utility**. When supplying the California Low Carbon Fuel Standard (LCFS) mobility market, the facility can secure renewable natural gas through similar contractual agreements with the natural gas supplier to produce certified renewable hydrogen.
- From renewable and low-carbon to traditional hydrogen, the facility has the flexibility to provide a range of production options for customers.
- Construction began in early 2020, with operations and deliveries beginning in **April 2022**.

Facility Logistics

- Water used at the facility comes from the Colorado River at Lake Mead via the City of North Las Vegas network.
- The water consumption for the facility's SMR is 52 gallons per minute (gpm), or approximately 9.7 gallons per kg of hydrogen produced. The cooling water tower requires an additional 147 gpm.
- Natural gas used on-site is delivered via the Kern River pipeline, which also supplies natural gas to Las Vegas.
- In the event of a drought, Air Liquide has mitigation agreements in place with the City of North Las Vegas and the state of Nevada for compliance.

Facility Employment

- During the construction and start-up phase of the project, the facility provided jobs for 700 employees.
- Today, the facility supports 19 permanent jobs. At full capacity it will support 25 full-time jobs and, as operations grow, the on-site workforce will expand.
- The starting salary for the plant's employees is **\$25/hour and growth potential, with no college degree required**.
- Across 16 locations, Air Liquide employs about **100 employees** in the state of Nevada. Airgas will add additional jobs in NV later this year.

About Air Liquide

- Hydrogen plays a key role in the race to decarbonize the planet. Air Liquide's expertise in this field dates back more than 50 years. Its technologies are used throughout the low-carbon hydrogen supply chain, from production to storage and distribution.
- Air Liquide intends to continue its growth trajectory while preparing to reach carbon neutrality by 2050. In 2025, Air Liquide will start reducing its absolute carbon emissions, and by 2035, Air Liquide's goal is to have reduced its carbon emissions by 33 percent compared to 2020 figures.
- By 2025, Air Liquide is working towards ensuring that 35% of its workforce is women, and 100% of its employees benefit from a common basis of care coverage.

