

LERC's Electrochemical Process

# A NEW TECHNOLOGY FOR CLEAN AND COST EFFECTIVE AMMONIA PRODUCTION



# Large Scale Ammonia Production: Typical Challenges

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**LERC's proprietary ammonia production technology can address the following challenges:**

- Your access to gas feedstock is expensive or unreliable
- You operate in an area with government-mandated emission levels
- You operate under a carbon credit market system
- Your production site is landlocked
- You suffer from high logistical costs (truck, rail, etc.)
- You worry about safety
- Clarity in forward pricing

**You could also benefit from LERC's proprietary ammonia production technology if:**

- You have access to inexpensive electrical power or excess steam
- You would like to store unconsumed renewable power (e.g. wind, hydroelectric, solar, geothermal)

# Clean, Scalable Production of Ammonia: LERC's solution

Low Emissions Resources Corp. (LERC) has developed a DISRUPTIVE technology for the clean, cost-effective and scalable production of ammonia using a proprietary electrochemical process.

Relatively low start-up capital investment

Scalable from as small as 10 to over 200 tonnes per day

Ability to consume & capture stranded renewable energy

Environmentally friendly

Shorter lead time

# Benefits of the LERC Ammonia Production Technology

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- LERC's plants require much less time to build and much lower capital expenditure to reach commercial scale than the current technology.
- LERC's process consumes less energy and resources, and requires much less costly maintenance.
- LERC's process is scalable and can be made in any size, from 10 tonnes/day to over 200 tonnes/day.
- LERC's process is clean and sustainable with the use of clean renewable energy.
- No carbon or greenhouse gas emissions.
- LERC's plants are the first scalable solution to the challenge of providing storage for renewable energy.
- LERC will deliver a complete, ready-to-construct ammonia production plant which utilizes the LERC proprietary electrocatalytic technology.
- The plant produces minimal waste, the only exhaust from the plant is pure oxygen which can be used or released straight into the atmosphere, without contaminating the environment.

