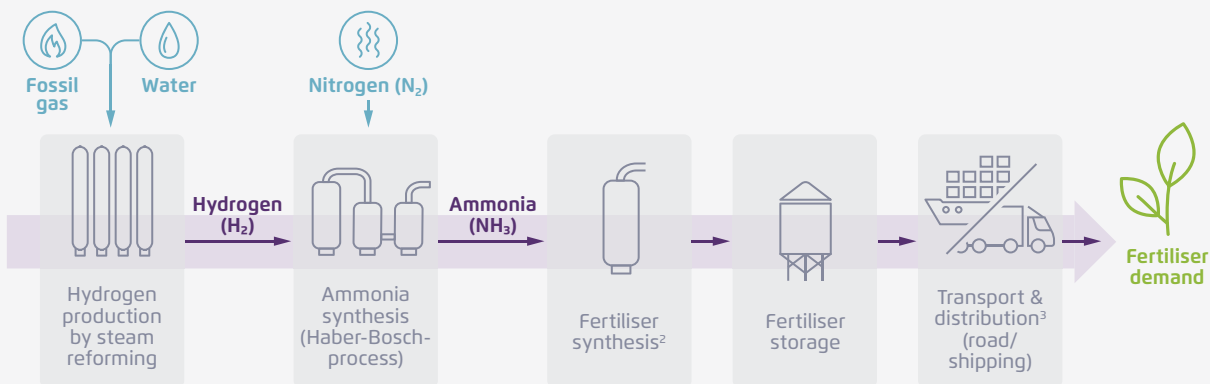


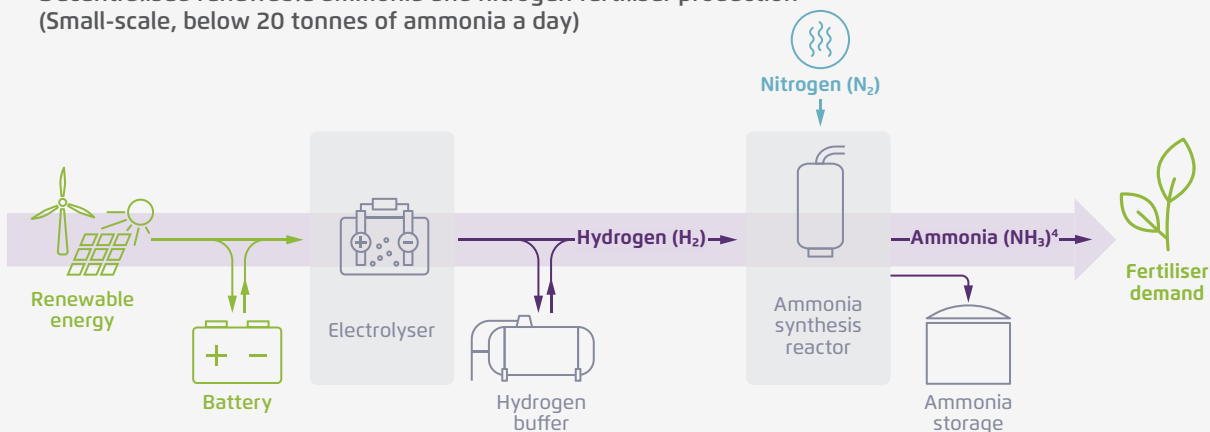
Comparison between centralised vs decentralised ammonia and nitrogen fertiliser production

→ Fig. 1

Centralised fossil-based ammonia and nitrogen fertiliser production (Industrial-scale, over 100 tonnes of ammonia a day)



Decentralised renewable ammonia and nitrogen fertiliser production¹ (Small-scale, below 20 tonnes of ammonia a day)



Agora Industry (2025).

Notes: This scheme only presents one potential technology for decentralised production (electric Haber-Bosch). Electric Haber-Bosch technology can also be scaled up to reach industrial production levels and is a low-carbon option for centralised ammonia production.

²This depends on the final nitrogen fertiliser to be used.

³Depending on the location of the farming community, this section can include transport from the production plant to the export port, shipping to the import port, and transport from the port to the local distribution centre for the final user.

⁴Ammonia can be used directly as fertiliser or transformed into other nitrogen fertilisers.