

**We Are Enabling De-centralised  
Production of Green Ammonia.**

**To Help Farmers Save More  
& Become Less Vulnerable.**

AmmoniQ Solutions AB

Pitch Deck June 2025

**AmmoniQ**

WHAT



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## MOTIVATION

# Ammonia ( $\text{NH}_3$ ) is One of the Most Critical Chemicals Globally but is Also Dirty & Affected by Geopolitics.

### NEEDED FOR NITROGEN FERTILISERS:

Urea<sup>\*</sup>

Ammonium Nitrate

### NEEDED FOR ADHESIVES:

Urea-formaldehyde<sup>\*\*</sup>

### POTENTIAL AS:

Fuel<sup>\*\*\*</sup>

Hydrogen Carrier

### ANNUALLY RESPONSIBLE FOR:

500 Megatons  $\text{CO}_2$

2% of Global Energy  
Consumption

### MAJOR EXPORTERS:

Russia

Belarus

China

<sup>\*</sup>Responsible for Around 80% of Global Fertiliser Use

<sup>\*\*</sup>Used as an Adhesive to produce products such as plywood and fibreboards, also Urea and Lignin projects

<sup>\*\*\*</sup>Offers 9x Energy Density of Lithium-ion Batteries and 3x of Hydrogen

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MOTIVATION ( cont.)

# Swedish Agriculture Faces Uncertainties That Can Have a Detrimental Outcome For The Population.

180' | 0 | 0,5

\*Thousand Metric Tonnes (MT) of Nitrogen Equivalent Annual Demand in Sweden

\*\*Number of Ammonia or Nitrogen Fertiliser Plants in Sweden

\*\*\*1,5 Million MT of Cereal Needed to be Imported to Sweden if Supply of Mineral Fertiliser Ceases to Exist

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## PROBLEM

# Farmers are Vulnerable to Uncontrollable Factors, Directly Affecting Their Overall Farming Costs.

### FERTILISER SUPPLY:

Affected by macroeconomic factors, quasi-monopolistic supply structure, and logistics.

Fertiliser increased the most of all expenses for Swedish farmers in 2022.  
From 3,7 to 8 BSEK.

### ENERGY COSTS:

3,7 TWh annual energy usage in Swedish agriculture (electricity, heating, and diesel).  
Ca 2,8–3,5 BSEK annually.\*

### EMERGING COSTS:

Carbon tax might be implemented. Sanctions\*\*

\*Based on January 2025 Swedish market prices for electricity, heating and diesel.

\*\*Denmark has already set a carbon tax on agriculture. EU to sanction Russian NH<sub>3</sub>

MARKET

# We Have The Potential To Tap Into a Multi-Billion Market in Sweden Alone.

## SWEDISH TOTAL ANNUAL MARKET

24x SEMI-CENTRALISED PLANTS\*

FARMING (HEAT + NITROGEN):

**3.0 BSEK \*\***

SURPLUS HEAT:

**1.4 BSEK \*\***

OUR GOAL TO ACHIEVE 10% MARKET SHARE  
BY 2030

## GLOBAL TOTAL ANNUAL MARKET

1 400x SEMI-CENTRALISED PLANTS\*\*\*

NITROGEN ALONE:

**152 BSEK \*\***

HEAT ALONE:

**126 BSEK \*\***

OUR GOAL TO ACHIEVE 10% MARKET SHARE  
BY 2040

\*To meet Swedish annual demand of 180 000 tonnes of nitrogen eq.

\*\*Based on January 2025 Swedish market prices for electricity, heating and nitrogen with 20% discount.

\*\*\*Each plant produces 8 000 tonnes of nitrogen eq.

# AmmoniQ

# Sustainable Ammonia Production. Redesigned.

Patent-pending & Sustainable Power-to-NH<sub>3</sub> Technology Utilising A Novel Heat Recovery and Generation Feature, Using Just Water, Air and Green Electricity.  
Helping Farmers Save More & Become Less Vulnerable.

## AMMONIQ LIGHT (calculated)

MODULAR UNIT

Electricity Input: XYZ kWh/day

Heat Output: YXZ kWh/day

NH<sub>3</sub> Output: 50 kg/day

## AMMONIQ PLUS (calculated)

SEMI-CENTRALISED PLANT

Electricity Input: ZXY MWh/day

Heat Output: YZX MWh/day

NH<sub>3</sub> Output: 25 tonnes/day

## ANNUAL FARMING SAVINGS

24x SEMI-CENTRALISED PLANTS

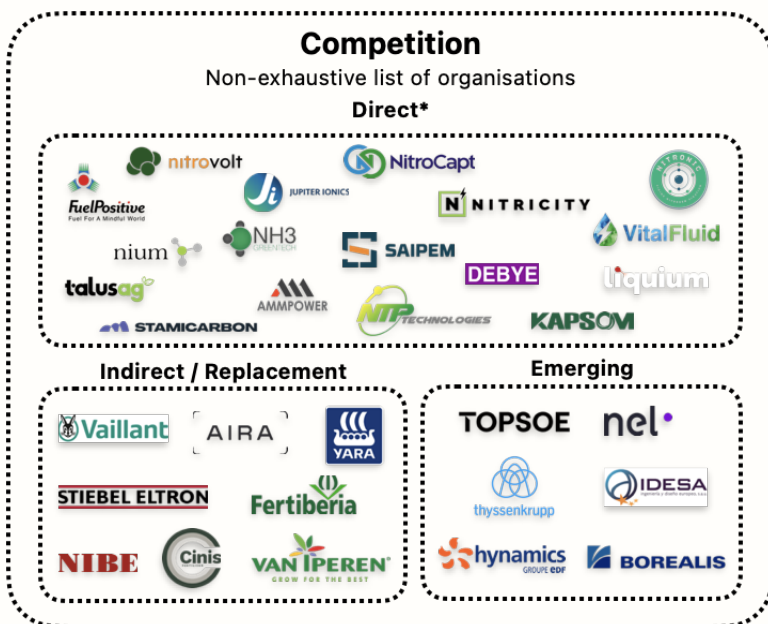
Cover Swedish Agriculture's Heat & Nitrogen Eq. Demand. \*

\*Combined cost for nitrogen eq. demand and heating at a 20% discount from AmmoniQ, in comparison to purchasing electricity and heating separately to Jan 2025 Swedish market prices.

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# We Win Because... We Are Bringing The Heat!

Power-to-NH<sub>3</sub> Technologies Exist.  
Power-to-NH<sub>3</sub> & Heat Technologies Don't.



## UNIQUE VALUE PROPOSITION NITROGEN & HEAT BUNDLE

We produce both nitrogen and heat simultaneously, without extra electricity – Achieving real savings for farmers.

## AN ACE UP OUR SLEEVES SURPLUS HEAT

To meet nitrogen demand, we produce more heat than needed for farmers, so we can sell at a discounted rate.

# AmmoniQ



## Milestones and traction

- 2023**      **Company started , Lab work POC, IP grant**
- 2024**      **Market research grant, first pat. sought**
- 202501**    **Second patent sought**
- 202503**    **CEO hired, Accepted into UIC Build**
- 202504**    **Projects and stakeholders started**
- 202505**    **Accepted into BIA. Investor talks. EIP grant +**
- 202506**    **Accepted into WIRA-SET**

### KEY ACTIVITIES TO PERFORM NEXT:

1. DEVELOPMENT OF PROOF-OF-CONCEPT PILOT AND EXPAND IP
2. HIRING OF A TEAM TO ACCELERATE
3. CONTINUOUS DIALOGUES WITH OUR STAKEHOLDERS
4. A FULL FINANCIAL ANALYSIS OF OUR SYSTEM
5. COLLABORATION WITH STRATEGIC PARTNER AND CUSTOMER THROUGH GRANT PROJECT

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# We Are Looking to Raise >5 MSEK Through Convertibles or Pre-Seed round.

- "Why do we need 5 MSEK?"
  - Build pilot machine – 1 000 000 SEK
  - Modelling @AFRY (towards Digital twin) – 250 000 SEK
  - Modelling of plant @Aalto University (gives cost of plant) – 500 000 SEK
  - Optimize Electrochemical part @UU/RISE? (electrodes, chamber, etc.) – 1 000 000 SEK
  - Grow IP with 1-2 patents – 250 000 SEK
  - Build company (team etc.) – 1 000 000 SEK
  - Build technology network (suppliers, collaborators, supporting modelling, etc.) – 250 000 SEK
  - Build customer basis – 250 000 SEK
  - Apply for soft money – 250 000 SEK
  - Miscellaneous – 250 000 SEK
- NEXT financing round, Seed round, - expected to be in Q1 2026

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TEAM

# We Are in the Process of Hiring Key Talent to Bring us to the Next Level.

## DR. TOMMI REMONEN

FOUNDER, INVENTOR & CHIEF SCIENTIFIC ADVISOR



Experienced project leader within chemistry, materials chemistry, manufacturing, technical consulting, innovations & IPR, as well as within sales of high-tech products/services.

## TO BE DECIDED (Process ongoing)

CTO

We are looking for an experienced technology leader to support our CEO with technical developments going forward. In progress.

## Edward Blomstrand

CHIEF EXECUTIVE OFFICER



Experienced CEO in the transition industry. Long history of global- and strategic sales with a legal and financial background. Strong focus on value generation.

## TO BE DECIDED (Process ongoing)

ADVISORS

We are looking for an experienced and diverse team to support AmmoniQ going forward. In Progress

# AmmoniQ

**Thank you!!**

For more information go to  
**[www.ammoniq.com](http://www.ammoniq.com)**

Feel free to contact and connect with me:  
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**[linkedin.com/in/blomstrandedward/](https://www.linkedin.com/in/blomstrandedward/)**



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End of Long presentation

# **We Are Enabling De-centralised Production of Green Ammonia.**

## **To Help Farmers Save More & Become Less Vulnerable.**

REACH OUT TO US TODAY!

[edward.blomstrand@ammoniq.com](mailto:edward.blomstrand@ammoniq.com)

[www.ammoniq.com](http://www.ammoniq.com)

# **Ammoniq**



**AmmoniQ**

# Farmers Pay Us For a Bundle of Nitrogen & Heating.

## Utilities Pay Us For Discounted Surplus Heat.

### OUR MAIN CUSTOMERS

#### AGRICULTURAL HOLDINGS

We sell nitrogen (in the form of NH<sub>3</sub>, ammonium nitrate or urea) and heat as a bundle.

#### UTILITIES OPERATORS

We also sell surplus heat generated at an attractive, discounted rate.

- ✓ From 27%-35% in Annual Savings for Swedish Farmers\*
- ✓ Allow Farmers To Get Better Control Over Expenses.
- ✓ Utilities Operators Secure Extra Supply of Green Heat.
- ✓ Discounted Market Rate, Making our Offering Attractive.

### OUR KEY PARTNERS

AGRICULTURAL COOPERATIVES  
NH<sub>3</sub> CONVERSION TECHNOLOGY PROVIDERS  
STRATEGIC SUPPLIERS  
SOLAR FARM OWNERS  
WIND POWER OWNERS

### KEY ACTIVITIES TO PERFORM NEXT:

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