DELORA Hydrogen Innovations

Enabling Low-Cost Green Hydrogen for the Global Energy Transition

Presented by:

Michael Bromfman, CEO

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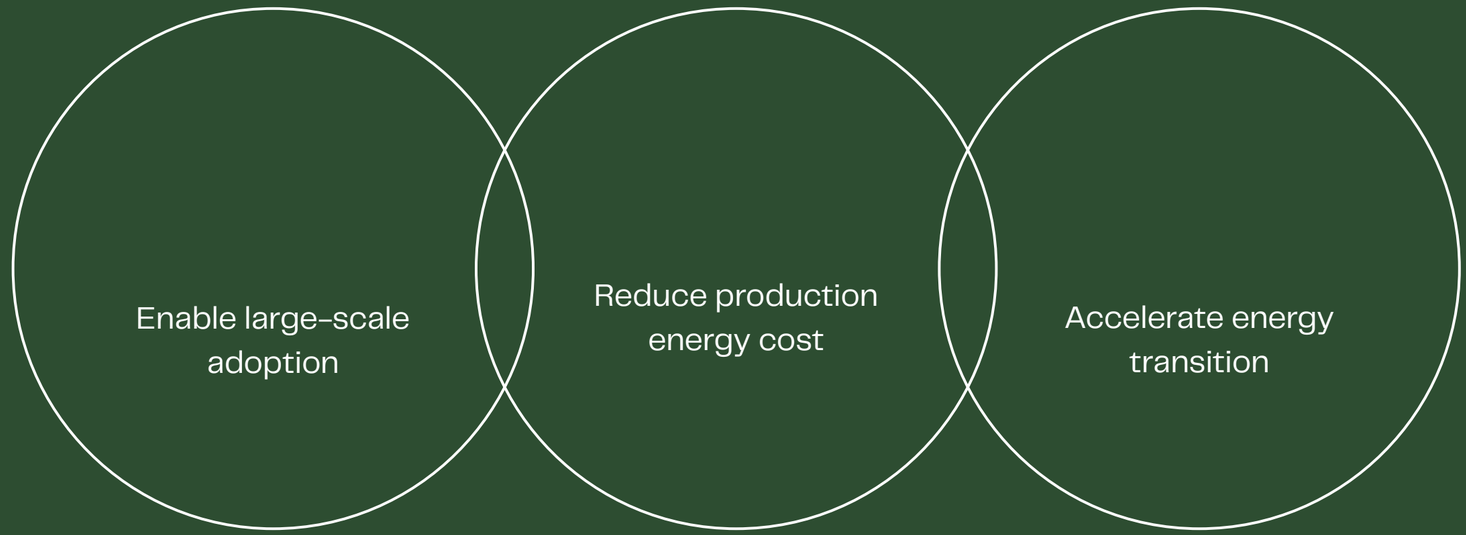
The Future Runs on Affordable Green Hydrogen

Enable large-scale hydrogen market adoption. Reduce hydrogen production energy cost

< 2 kWh/kg

Our core mission pillars:



The Team

Meet the founders driving DELORA's hydrogen innovations:

Michael Bromfman

MA Chem. Engineering
CEO

Vadim Goldshtein

Dr. Sci Chem. Engineering
CTO

Daniel Bromfman

BA Chem. Engineering
Engineering manager

The Problem

55
kWh per kg

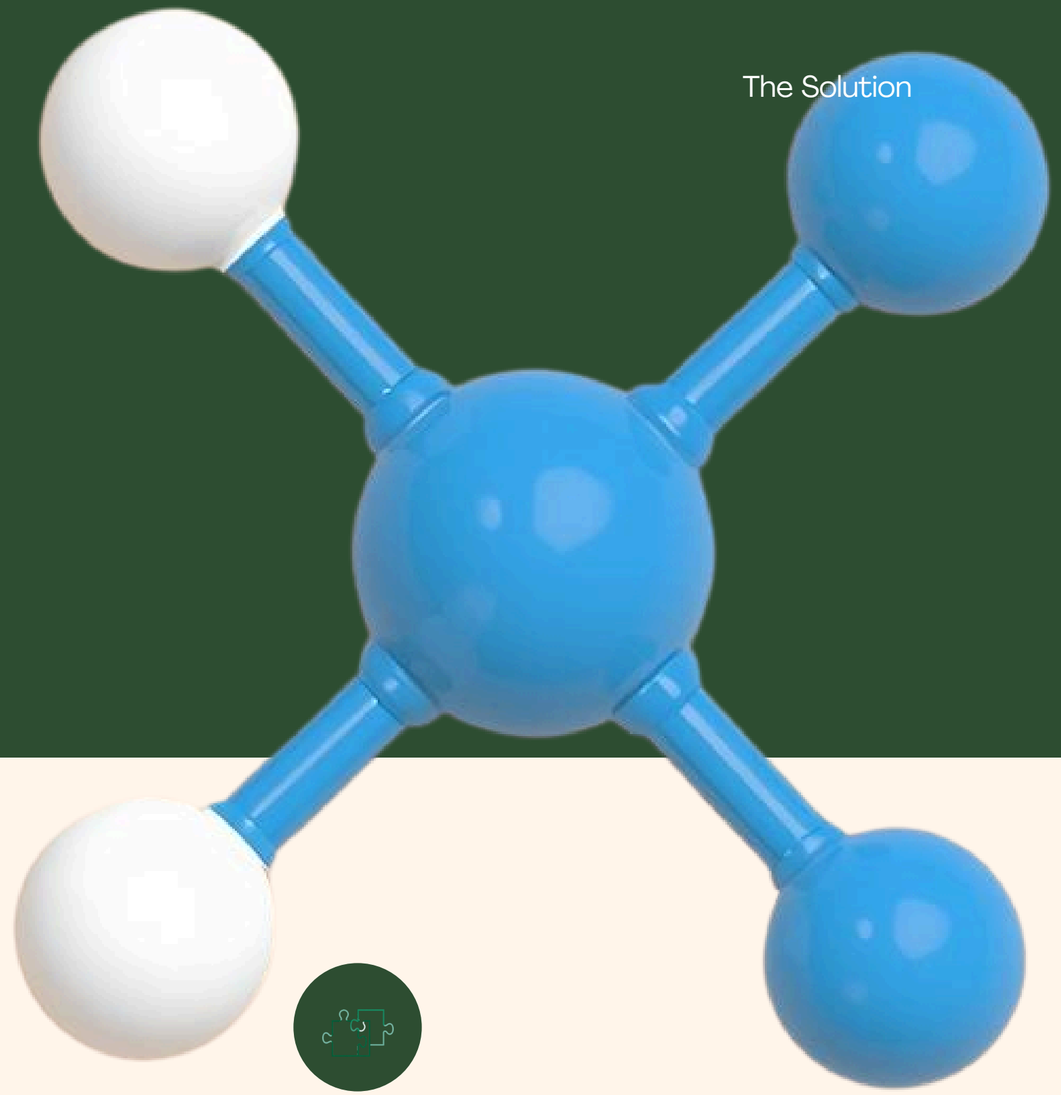
Current electrolysis requires 55 kWh to produce 1 kg of hydrogen, making green hydrogen prohibitively expensive.

3x

Green hydrogen costs up to 3x more than grey hydrogen, limiting large-scale industrial adoption and slowing global decarbonization.

The Solution

Delora developed a unique chemical-physical process that dramatically reduces the energy required to produce hydrogen.



Key advantages of the Delora Process:

Low Energy

Minimal power consumption per kg of hydrogen

Scalable Process

Modular – fit for large scale industial deployment

Novel Integration

Innovative mechanisms integrated into energy efficent process sequence.

Market Opportunity

Massive Growth in Green Hydrogen Demand
From $3.7B in 2024 to $300B by 2035, the market is set for exponential expansion.

The green hydrogen market is experiencing explosive growth driven by global decarbonization policies and renewable energy expansion.

$3.7B → $300B

Hard-to-electrify sectors: heavy industry, transportaion, and data centers are driving unprecedented hydrogen demand

49% CAGR

The Product

Delora Process constitutes a sequence of physical and chemical stages. Energy Sources: Chemical Energy. The mechanism's composition and integration create unique conditions for low energy hydrogen production.

2 kWh

power consumption per 1 kg hydrogen

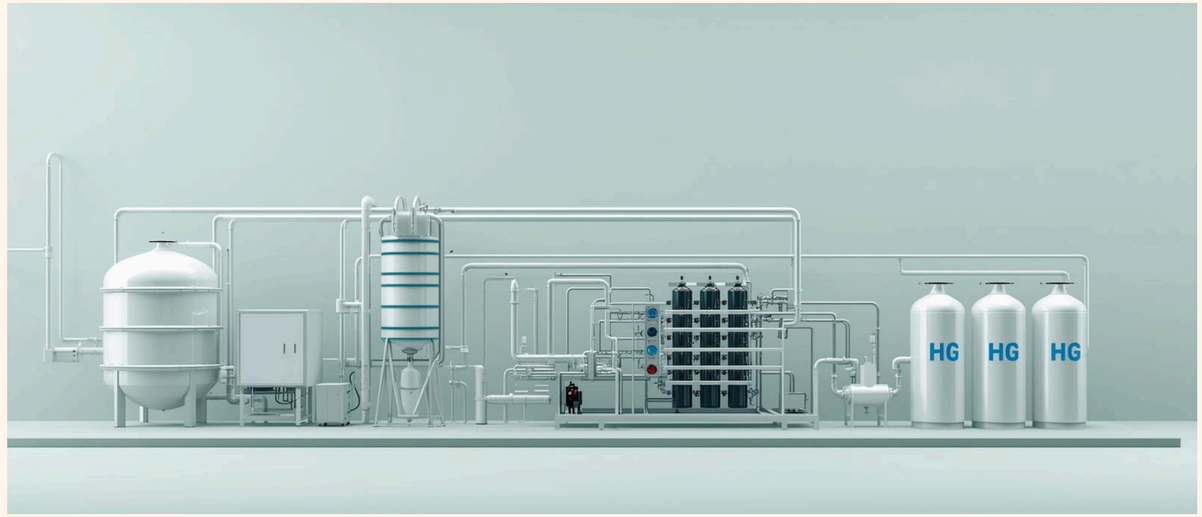
12-20 kWh

Electric energy generation from 1 kg hydrogen

95%

energy reduction vs. Electrolysis

The Technology



Our proprietary Delora Process transforms water into clean hydrogen and oxygen with ultra-low energy consumption, enabling cost-effective green hydrogen at industrial scale.

Water / Sea Water

The process begins with readily available water sources, including sea water, and reducing input costs significantly.

Delora Process Unit

Our proprietary technology processes water through a unique sequence of physical and chemical stages, requiring only 2 kWh per kg of hydrogen produced.

Hydrogen + Oxygen Output

Clean hydrogen and oxygen are produced for energy generation and industrial applications, enabling the global energy transition at competitive economics.

Target Customers

Delora's low-energy hydrogen technology serves three major market segments driving the global energy transition: mobility, energy production, and heavy industry.

Key market segments:

Mobility
Toyota, Honda, Hyundai

Energy generation
GE, Siemens, Renewable operators

Heavy industry
POSCO, ThyssenKrupp, ArcelorMittal

The Competition

How Delora compares:

Electrolysis (Green Hydrogen)

Requires 55 kW/h per kg of hydrogen

Grey Hydrogen (Natural Gas)

Contains CO_2 & CO contaminants

Delora Process (Green Hydrogen)

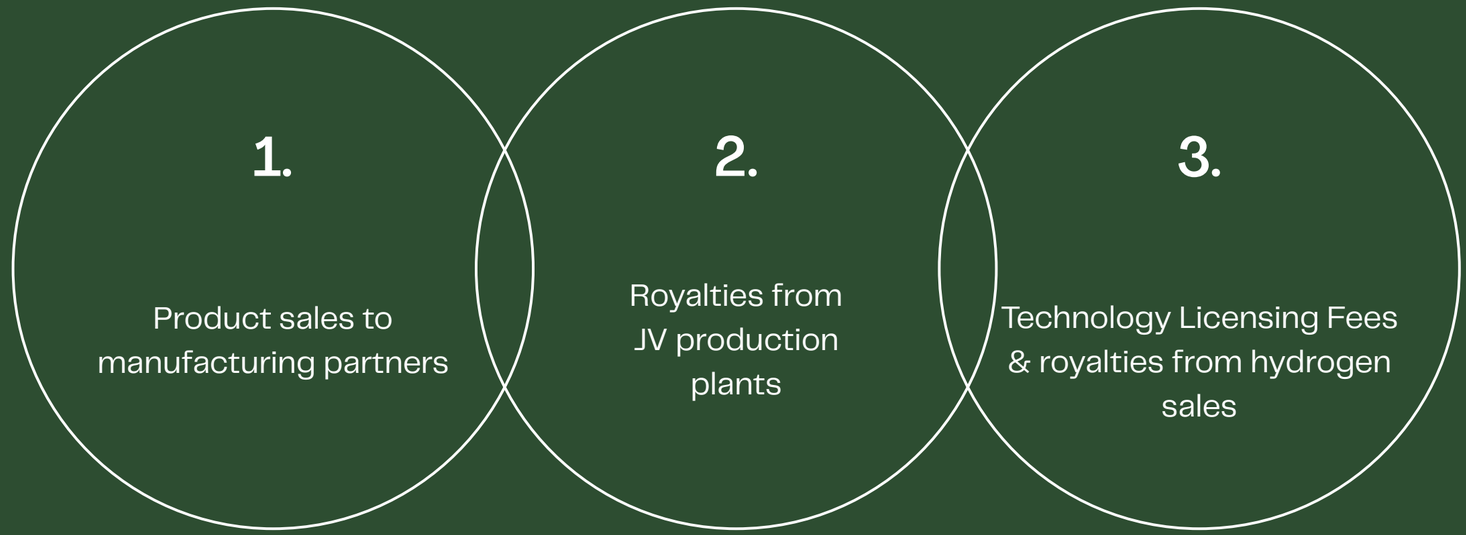
Low energy consumption. Enabling competitive economics for the energy transition.
Doesn't contain any contaminants.

Business Model

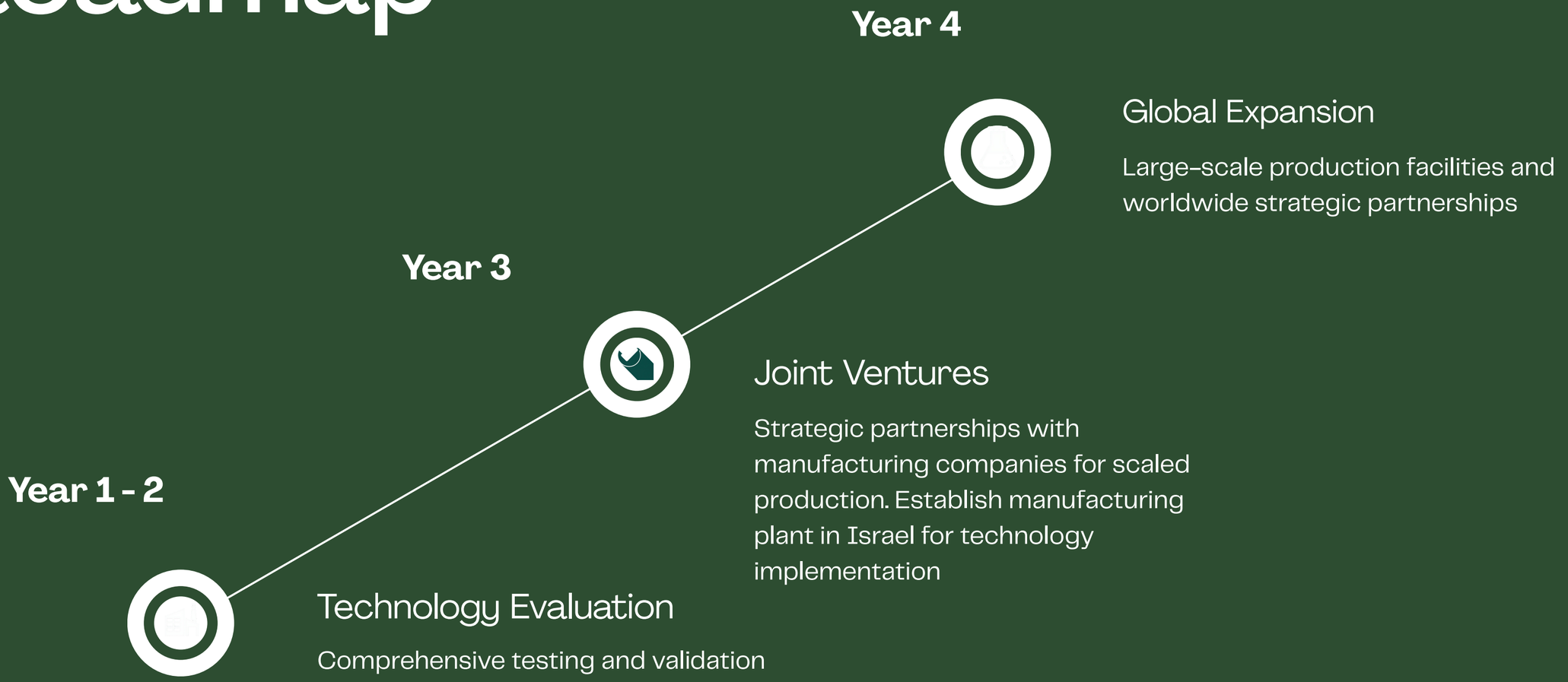
We generate revenue through multiple channels, creating sustainable income streams as we scale.

3 streams

Our primary revenue streams include:



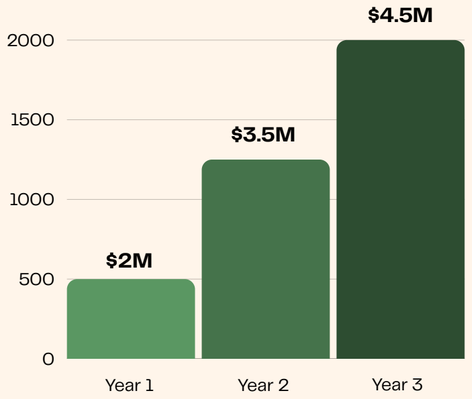
Roadmap


Year 1 - 2
Technology Evaluation
Comprehensive testing and validation of core technology components
Year 3
Joint Ventures
Strategic partnerships with manufacturing companies for scaled production. Establish manufacturing plant in Israel for technology implementation
Year 4
Global Expansion
Large-scale production facilities and worldwide strategic partnerships

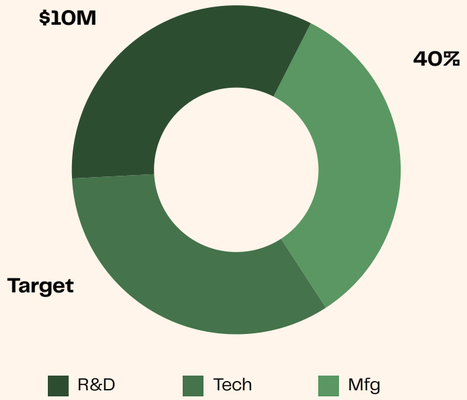
Financial Projections

DELORA's capital-efficient approach enables strategic investment allocation across R&D, technology validation, and manufacturing scale-up to accelerate commercialization.

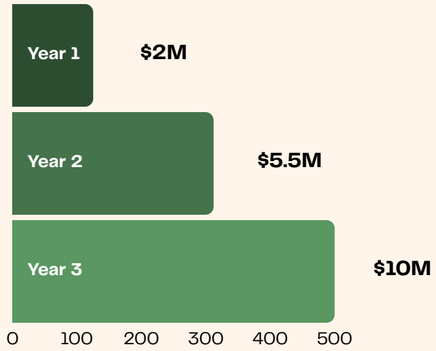
Investment Requirements



Total Raise Target



Cumulative Investment



The Ask

We are raising $10M to advance our breakthrough hydrogen technology to market.

$4M
R&D

$3M
Technology validation

$3M
Manufacturing scale-up