

A GLOBAL SOLUTION TO REDUCE POLLUTION

June 2024 Presentation

Forward Looking Statement



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 - The requirement for significant financing to develop and market its technology;
 - The ability to establish and maintain arrangements with industry recognized strategic partners;
 - Market acceptance of the Company’s technology and products;
 - Completion in all aspects of its business;
 - The effect of general economic, credit and capital market conditions on its business;
 - The ability to complete product development milestones and progress towards commercialization of product within the contemplated timetable;
 - The ability to attract and keep highly qualified staff and management; and
 - Changes in product profit margins due to pricing changes driven by variations in customer demand, competition, or unforeseen factors.
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Highlights



Carbon Emission Reduction Technology	International Growth Strategy
Diversification in Trucking, Mining, Oil & Gas	Multiple Vertical Markets
Proprietary Know-How & Patents	Leader in Hydrogen Technology
Carbon Credit Measurement	Potential Recurring Revenue
High Barriers to Entry	Dominant Competitor Advantage
Compelling Value Proposition to Users	< 1 year payback
Strong Margins	Attractive Business Model

Patented Technology

HydraGEN™

- dynaCERT has developed & commercialized a patented proprietary electrolyser called HydraGEN™
- Produces measured amounts of hydrogen and oxygen gases from distilled water
- Delivers H₂ and O₂ at the air intake of internal combustion engines
- Results in:
 - >More power
 - >Better torque
 - <Less fuel consumption and
 - <Less CO₂, CO, and NO_x

Features

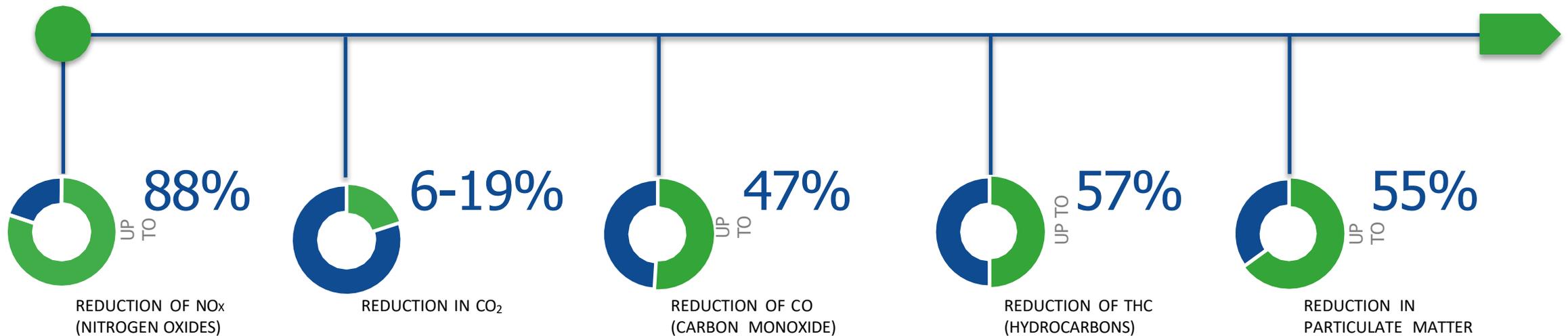
HydraGEN™

- On-demand, no H2 storage, no pressure, safer
- With a low power demand from the engine's battery
- Delivered to the air intake of internal combustion engines
- On trucks, mining equipment, generators, reefers, construction equipment
- < Particulate matter
- < Black smoke
- < Diesel Exhaust Fluid and < Diesel Particulate Filter

Emission Benefits

HydraGEN™ Lowers Emissions Substantially

The following results have been acquired from accredited third-party verification performed by PIT Group in Montreal, Quebec, Continental EMITEC in Germany and performance testing at the UOIT ACE in Toronto, Ontario.

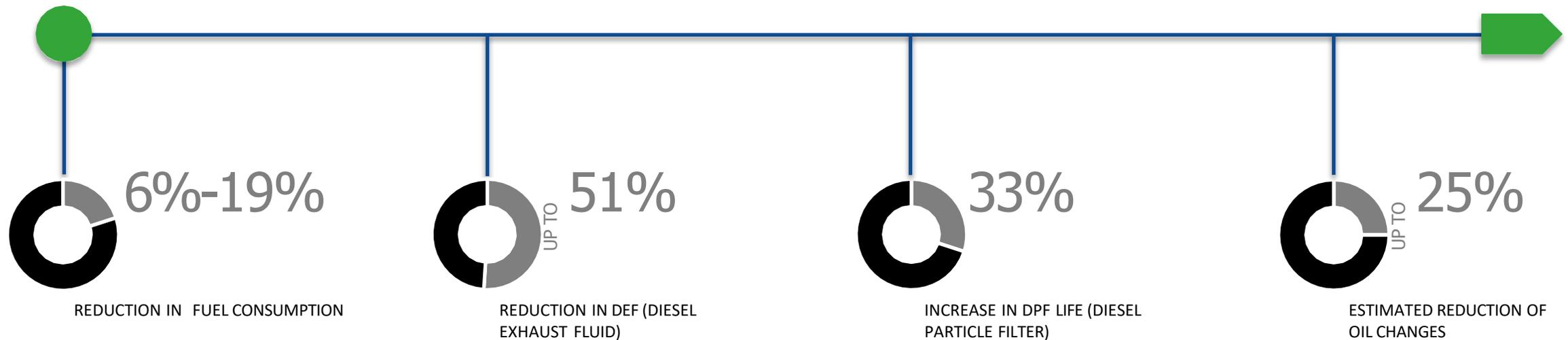


Economic Benefits



Lower Consumption and Maintenance

The following results have been acquired from accredited third-party verification performed by PIT Group in Montreal, Quebec, Continental EMITEC in Germany and performance testing at the UOIT ACE in Toronto, Ontario.



Independent Validations



UOIT (University of Ontario Institute of Technology)

PIT Group of Canada

Continental EMITEC

iCAT in India

Independent Testimonials by users, globally

TÜV NORD & TÜV SUD testing for ABE/KBA European Homologation

Now: user “audit” with HydraLytica™

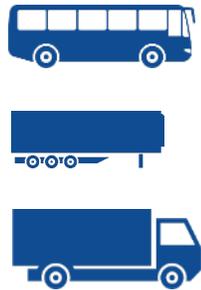


HydraGEN™

Product Line



HG2 Series
1 to 8 litre engines



HG1 Series
10 to 15 litre engines



HG-4C & HG-6C series
40 to 100 litre engines



HG1R Series

Greener Transportation

- Suitable for 10-15L Diesel Engines
- Reduces Fuel Consumption up to 10%
- Transportation, Passenger Transport, Power Generation, Construction, Agriculture, Mining
- Reduce your Carbon Footprint and meet ESG Goals

Warranty: 1Year Limited Manufacturer's



Certifications:



HG2R Series

Greener Transportation

- Suitable for 1-8L Diesel Engines
- Reduces Fuel Consumption up to 10%
- Transportation, Passenger Transport, Power Generation, Construction, Agriculture
- Reduce your Carbon Footprint and meet ESG Goals



Warranty: 1Year Limited Manufacturer's

Certifications:



Transportation & Logistics



Transport & Generation/Oil Fields



Construction Application



Transport & Logistics Application



Results – Mining Pilots

Reducing carbon emissions, improving diesel fuel economy



CAT797

1.3MM Tonnes Hauled
3,300 Cycles

13.4%
Fuel Efficiency



**Komatsu
930E**

380,000 Tonnes Hauled
700 Hours

11.8%
Fuel Efficiency

**TRIALS
Achieved
8%-13%
Diesel Fuel
Efficiency Gain**

11.0%
Fuel Efficiency

**Highway
Transport**
1,280 Hours



12.6%
Fuel Efficiency



**Dynamometer
14L MAN Truck**

3rd Party Testing
>Emitec/Contential



8.9%
Fuel Efficiency



CAT793

320,000 Tonnes Hauled
826 Hours

2022 Trials



data provided by H2Tek



Power Generation Application



HydraGEN™ HG4C unit



Fuel Tank and Containerised Generator

HG4C

Greener Mining

- Suitable for 40-60L Diesel Engines
- Reduces Fuel Consumption up to 10%
- Power Generation, Heavy Mining and Construction Agreement
- Reduce your Carbon Footprint and meet ESG Goals



Warranty: 1Year Limited Manufacturer's

Certifications:



HG6C

Greener Mining

- Suitable for 60-90L Diesel Engines
- Reduces Fuel Consumption up to 10%
- Power Generation, Heavy Mining and Construction Agreement
- Reduce your Carbon Footprint and meet ESG Goals

Warranty: 1Year Limited Manufacturer's



Certifications:



Mining Application Open Pit



Target Markets - Industries Served



CURRENT



- Buses



- Refrigerated Trailers



- Small Trucks



- Class 8 Trucks



- Power Generators



- Farming



- Construction



- Mining Equipment

INITIATED



- Small Marine Vessels



- Locomotives

FUTURE



- Passenger vehicles

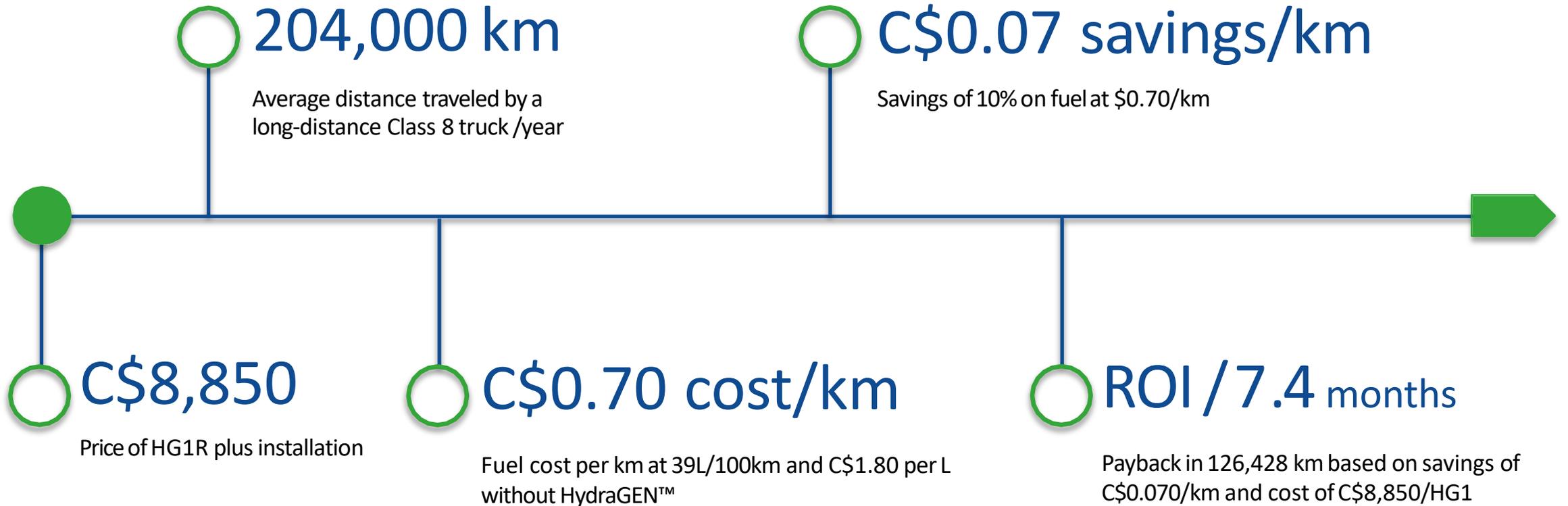


- Ocean Vessels

Diverse Applications



Value Proposition to End-User



*Pay back model is only based on fuel savings. End-users of HydraGEN™ Technology may also find cost savings from other areas such as reduction of DPF Filters used, less DEF usage and less oil changes.

Market Size

- **Total ICE Market**
 - 1 Billion internal combustion engines operate world-wide
 - 100 Million new internal combustion engines built world-wide every year
- **HG2 Market Estimate**
 - 20 Million in North America
 - 40 Million in Europe
 - 55 Million in South Asia
 - 20 Million in South America

Europe

- 145 million trucks

North America

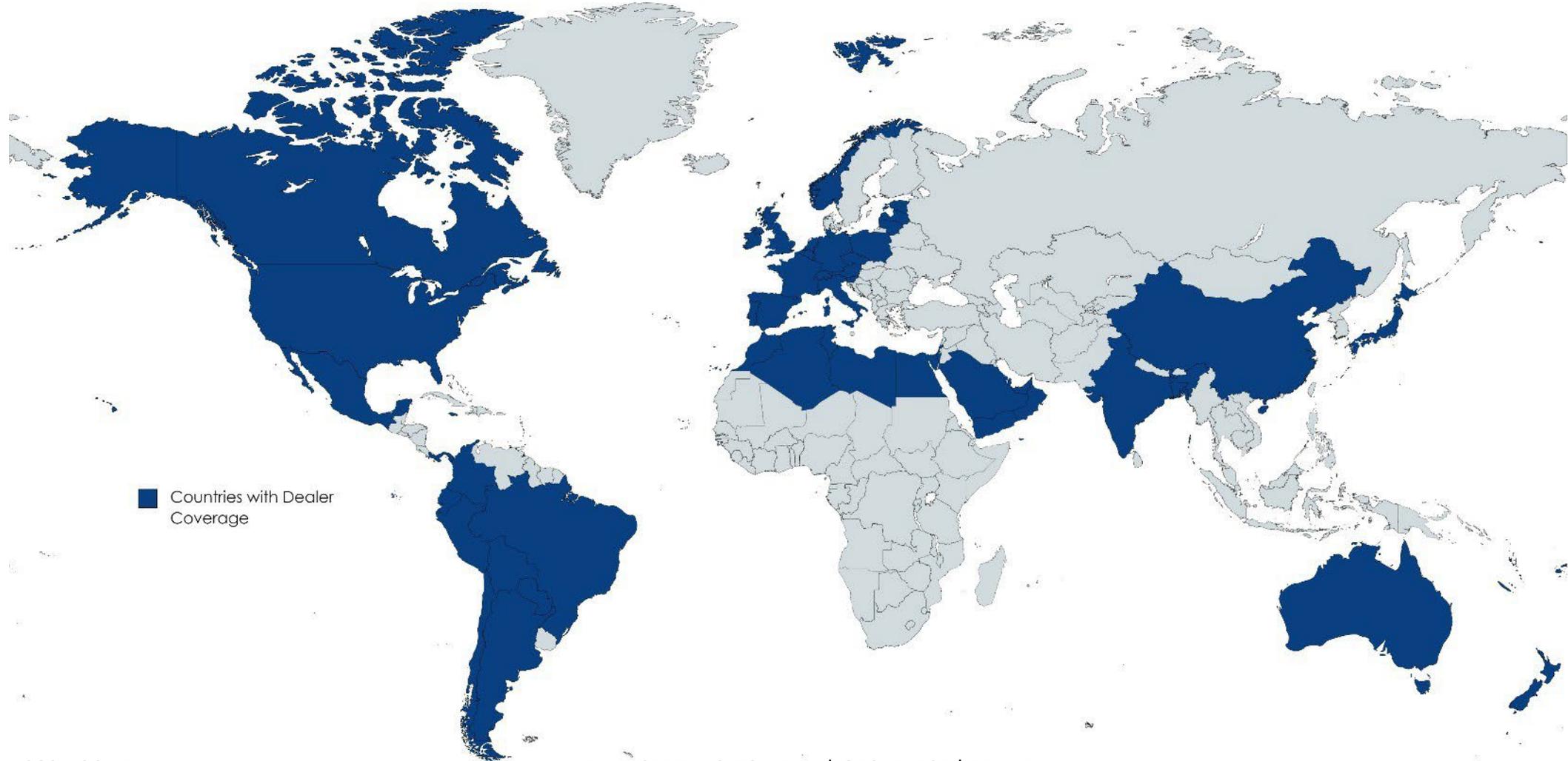
- 711,000 trucking companies relying on 3.5 million drivers
- 15.5 million class 8 trucks
- 36 million trucks registered for business

South America & India

- 210 million trucks

Dealer Network

48 Qualified Dealers & Agents Globally that Service 55 Countries:



HydraLytica™ Benefits



Automated Reporting & Analytics



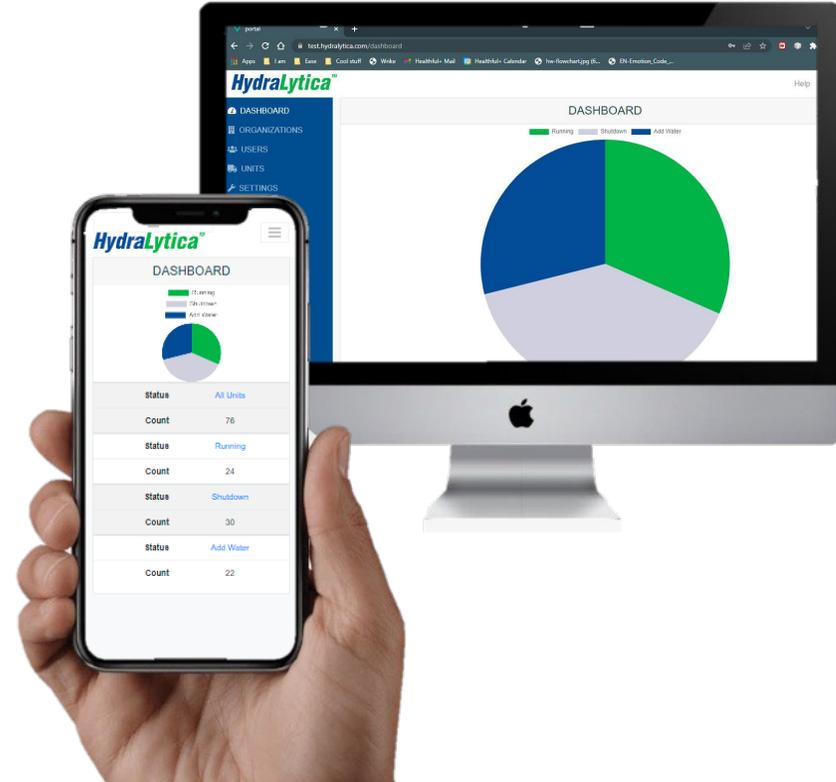
Automated fleet-wide tracking of fuel savings, emission reduction, & carbon credits generated.



Reduce Maintenance Cost



HydraLytica™ also automates fleet management for the HydraGEN™ system.



Business Model



CAD 90,000,000 Expenditures to Develop and Commercialize	19 Years of R&D
dynaCERT Assembles Product in Toronto, Canada	Newly Upgraded Assembly Facilities
Cost of Production: 50% of Wholesale Price	Profit Margin: 100%
Products Sold Through Global Dealer/Agent Network	In Europe dynaCERT GmbH
Dealer Network Insures Local Sales, Marketing & Service	Reduces Sales & Marketing Overhead
Multiple Target Markets	Using Dealer Network Strategy
Multiple Product Versions	Adaptation to Client Requirements
Continuous R&D	Maintain Market & Product Leadership

Comparable Technology = Trailer Skirts

Trailer Skirts

- 90% of long-haul trucks have added skirts since their launch 9 years ago
- Skirts cost C\$3,000 can save 1% fuel

HydraGEN™ Technology

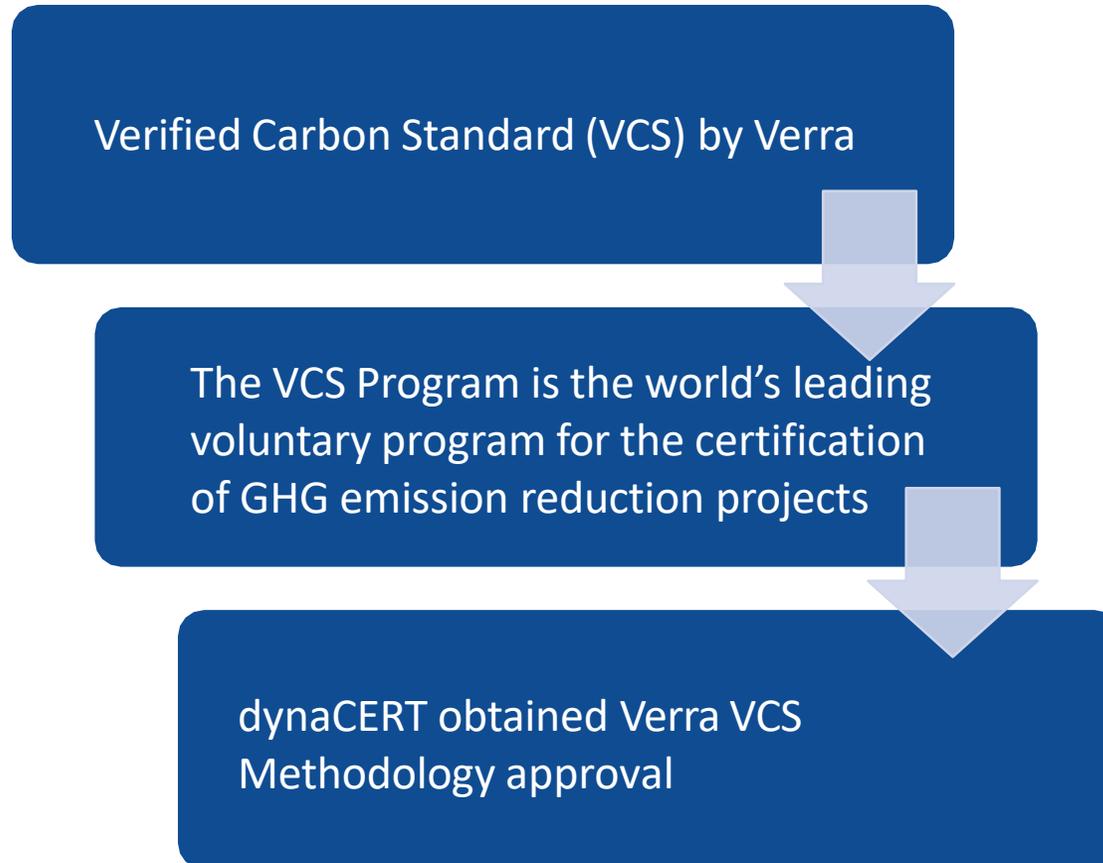
- Cost the end-user ~C \$10,000 and can save approximately 10% fuel, 1% for C\$1,000

Comparison

- HydraGEN™ is a 3 x Better Proposition



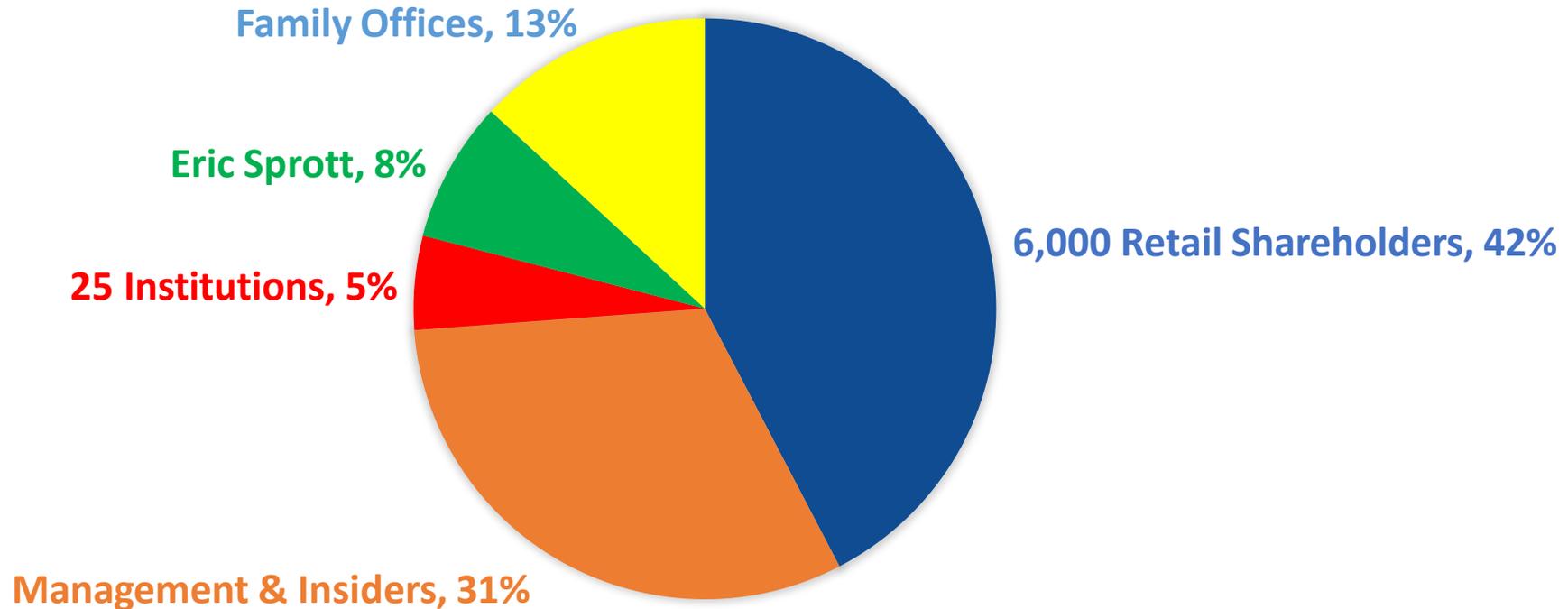
Verra Carbon Credit



Strong Shareholders



APPROXIMATE VALUES



High Barriers to Entry



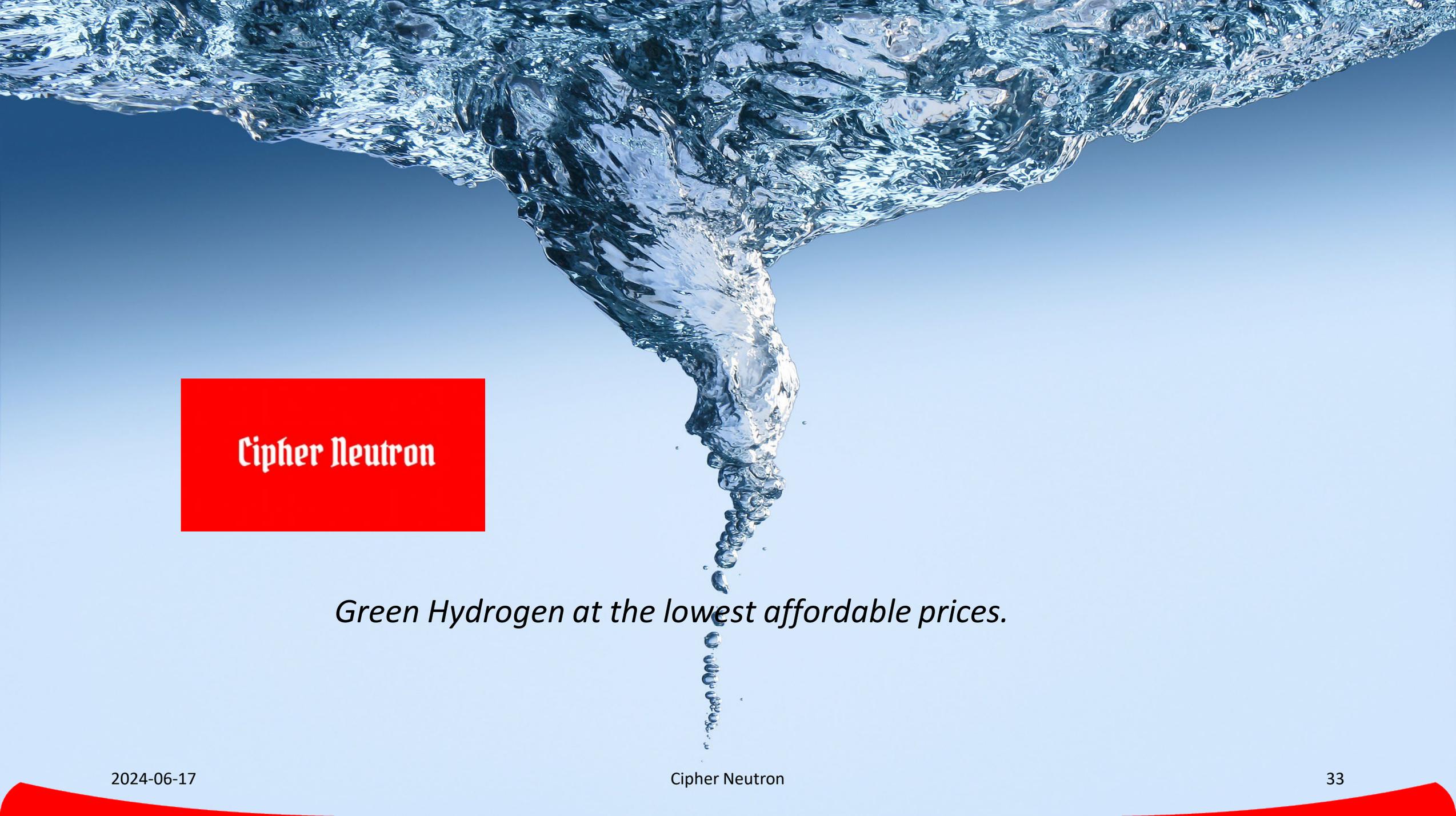
- ❌ Worldwide Patents + Unique ECU (Electronic Control Unit)
- ❌ Technological advantage: e.g., weather robustness, separation method of H₂ and O₂
- ❌ Lead Time advantage: \$90 million & 19 years to develop and commercialize
- ❌ Regulatory advantage: Certification in global jurisdictions takes years
- ❌ Distribution Network advantage: e.g., 48 qualified dealers globally
- ❌ First-to-Market advantage: across many verticals, e.g., transportation, mining, oil & gas, generators, construction, and locomotive

Positioning for the Future



- dynaCERT acquired 15% of Cipher Neutron
- 20% on a fully diluted basis
- Positioning in the Hydrogen Economy for the long term

Cipher Neutron

A dynamic splash of clear water falling from the top of the frame against a light blue background. The water is captured in mid-air, creating a sense of motion and freshness. The splash is wider at the top and tapers as it falls, ending in a trail of small bubbles.

Cipher Neutron

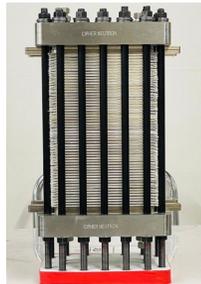
Green Hydrogen at the lowest affordable prices.

About Cipher Neutron

Cipher Neutron



A cleantech company focused on
Low-Cost Green Hydrogen Generation



North America's 1st company marketing
AEM Electrolyser technology



World's 1st to apply for
patent in innovative
Reversible Fuel Cell technology



Hydrogen Market



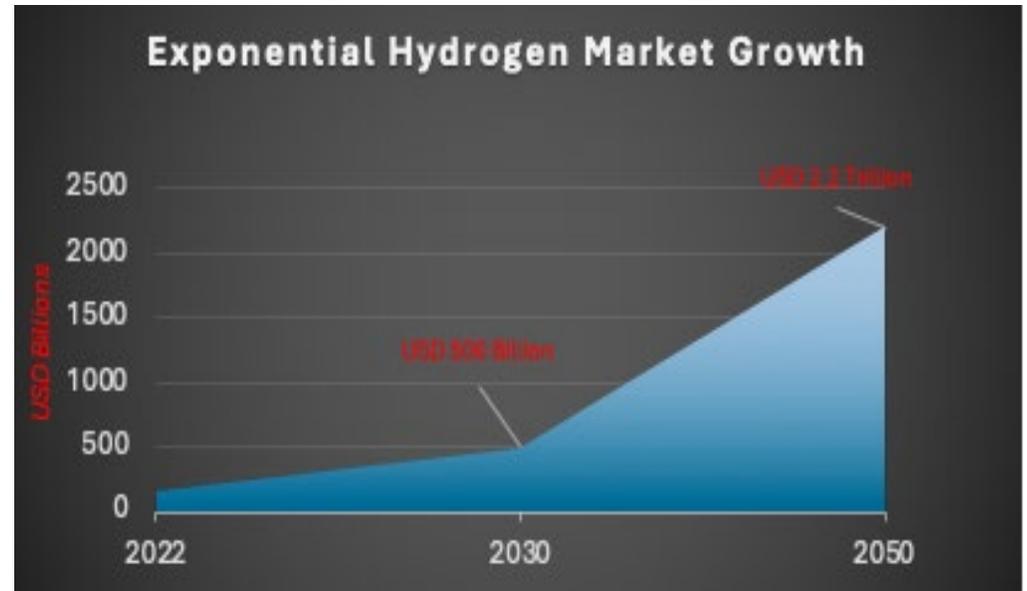
Existing market

- Oil & Gas (USD\$40 B)
- Fertilizer (USD \$ 80 B)
- Mining (USD \$ 5 B)
- Chemical industry (USD \$15 B)
- Food industry (USD \$1 B)



Emerging market

- Fuel Cell
- Hydrogen IC engine
- Natural Gas Blending
- Steel Manufacturing

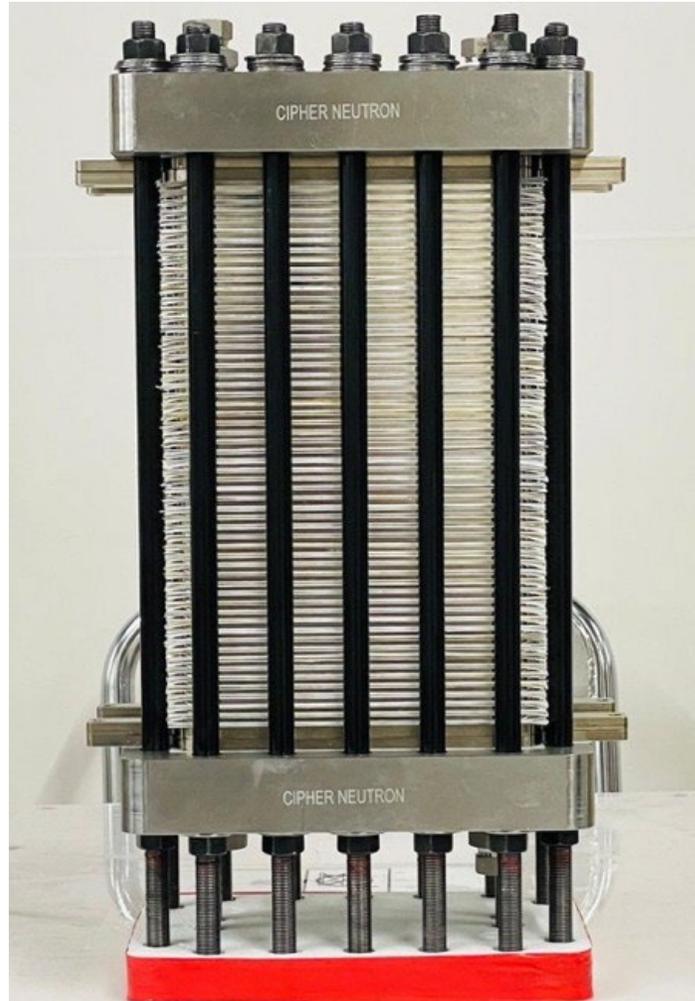


Cipher Neutron's AEM Electrolyser

Cipher Neutron

A highly efficient way to
produce Green Hydrogen

No use of precious metals
as used in PEM electrolyzers



1st North American Company to
launch AEM Electrolyzers

Backed by 22 years of research and
development

AEM Benefits

Cipher Neutron



Highly Efficient

82% efficiency vs industry standard of 77%



High Ampacity

High current density (2amps/cm²) enables more H₂ production per unit area



High Pressure

Eliminates the need for expensive secondary compressors up to 30 bars.



Compact Design

Enables light weight and smaller footprint electrolyzers



No Precious Metals

AEM Electrolyzers do not use any precious metals as used in other technologies



Price Reduction

Less than \$950 (USD) per kW

1. High Efficiency enables more hydrogen production using the same amount of energy/power. This results in lower operating costs to produce green hydrogen.
2. High Ampacity enables more hydrogen gas from a given area. Alkaline electrolyzers have ampacity of around 0.1 amps/cm² Vs 2 amps in our AEM.
3. High Pressure enables easy storage of hydrogen and also eliminates the need to buy expensive hydrogen compressors to compress hydrogen.
4. Compact design enables less material required for the manufacturing of the electrolyzer. This leads to lower Capex.
5. No precious metals enables our AEM electrolyzers to be more sustainable and affordable. Precious group metals could also be subject to supply-chain problems coming from hostile nations.
6. Price reduction in AEM is significant due to its compact design and the elimination of expensive rare earth and precious metals.

Future R&D of Cipher Neutron: Reversible Fuel Cell

Cipher Neutron

1st Company to have Reversible Fuel Cell with Graphene Storage

Non-compressed Hydrogen Storage



Single system to produce Green Hydrogen and Clean Electricity

Ability to replace Lithium-ion batteries

Patent Pending

Cipher Neutron

Future R&D of Cipher Neutron RFC Applications

Cipher Neutron

- Energy Storage
- Residential and commercial power backup
- Off-grid/remote hotels, communities, cottages, etc.
- Utilities
- Capturing surplus/off-peak power



Management



Jim Payne
Chairman, CEO, &
Director

- CEO of dynaCERT since 2013
- Previously CEO of privately held consulting, project management and real-estate development company
- Successfully built and managed his own private companies for more than 38 years providing experience in accounting, business leadership, and the legal aspects of governance



Jean-Pierre Colin
Executive Vice
President & CFO &
Director



Khoa Tran
Director of Finance



Bernd Krueper
President & Director

- 6.5 Years CEO at Hatz Group
- 18 years leadership experience at Rolls-Royce Power Systems AG
- 6 years at Daimler Group
- MBA from Eberhard-Karls-University



Enrico Schlaepfer
VP of Global Sales



Ed Cordeiro
Director Sales
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