

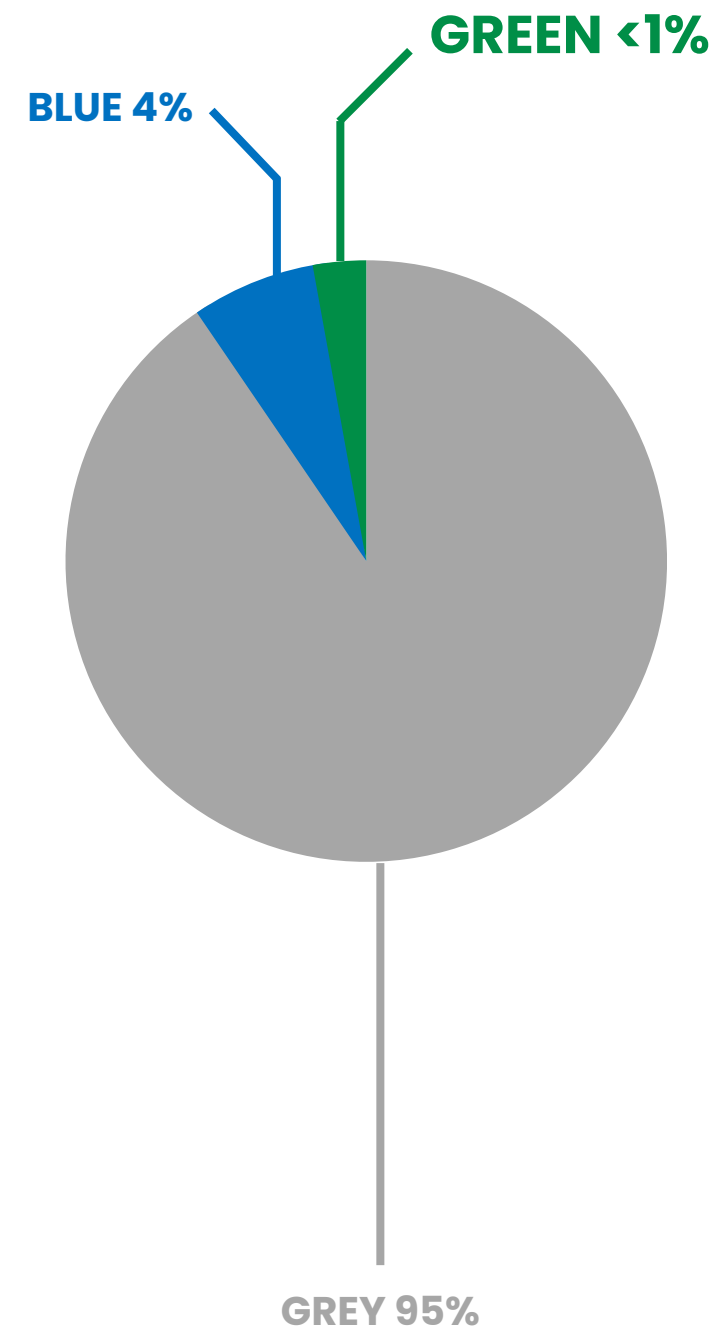


# Highlights

- HNO International: Systems engineering design, integration, and product development for green hydrogen-based clean energy solutions.
- Experienced management team with 13 years of expertise in the green hydrogen production industry.
- Serving multiple multi-billion dollar existing and emerging markets with enormous tailwinds politically and technologically



# Problem



Most hydrogen is created using fossil fuels, contributing to additional pollution.



Green Hydrogen production and hydrogen refueling stations are not scaling quickly enough to meet the demand






Many decarbonization strategies are unsustainable for small businesses



# Solutions



-  Produce green hydrogen on-site, reduce the cost of transportation and compression, deploy refueling and green hydrogen production quickly
-  Utilize low-cost green hydrogen production and distribution technologies to reach cost parity with fossil fuel-based hydrogen
-  Mitigate emissions of current internal combustion engine fleets with innovative hydrogen technologies

# Products



## **HYDROGEN REFUELING AND EV CHARGING STATIONS**

Hydrogen refueling and EV charging stations for hydrogen FCEV and Battery EV cars, trucks and more.



## **SCALABLE GREEN HYDROGEN PRODUCTION (SGHP)**

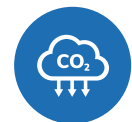
Small to mid-scale green hydrogen production plants



## **LEEFH2S AND HYDROGEN CARBON CLEANERS (HCC)**

Emission and maintenance reduction technologies for internal combustion engines.

# Customer demand



Growing interest in zero-emission vehicles and equipment.



Need for decarbonization to meeting sustainability goals.



Inflation reduction act, carbon credits, and additional federal and local tax incentives/funding



## Green Hydrogen Market

- \$1B in 2021 to \$72B by 2030 (CAGR of 55%)



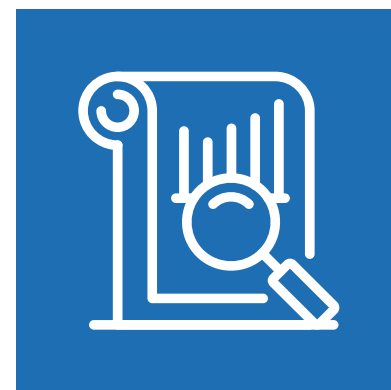
## Green Hydrogen Electricity Generation Equipment

- \$440M in 2021 to \$4.4B in 2030 (CAGR of 58%)



## Hydrogen Refueling Station market

- \$540M in 2022 to \$2.7B in 2029 (CAGR of 26%)



The Inflation Reduction Act offers up to

**\$3/kilogram**

for green hydrogen produced as a Production Tax Credit that can be sold or kept by developers

# Business model



## Green Energy Project Development

Building and operating SGHP and selling hydrogen to off-takers

Utilizing low-cost hydrogen from SGHP to supply our other product line as recurring revenue



## Distribution partners

Sales and licensing of LeefH2S and HCC



## Direct Sales

Sales and licensing of CHRS and ZEV charging/refueling equipment to fleets and property owners



## Maintenance/software packages

Recurring revenue from providing maintenance and data analytics of integrated solutions and products



# The markets we address

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Refueling/recharging for hydrogen and battery electric vehicles, transportation, and material handling equipment



Current and emerging hydrogen gas and energy markets.



Gasoline and diesel engine service market



# Our competition

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Primarily using fossil-fuel based hydrogen production (blue/grey)



Large and slow to deploy integrated infrastructure requiring heavy investment



Over reliance on rare-earth metals





# Our vision and strategy

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## Vision:

We aim to be a catalyst in shaping a sustainable future and redefining clean energy access by providing innovative green hydrogen solutions that enable businesses and communities to prosper while protecting our planet.



## Strategy:

- Launch CHRS and SGHP products
- Pilot, demonstrate, and sell/license LeefH2S technology
- Design and manufacture HCC for sale through distributors
- Strengthen our supply chain further with more supplier partnerships across the electrolyzer, H<sub>2</sub> compression and storage, and clean energy sectors
- Develop custom integrated hydrogen solutions for other businesses
- Connect with more channel partners and distributors
- Expand our reach into diverse, international markets



# Our impact



Contributing to a cleaner and more sustainable future.



Reducing adoption and operation costs for businesses seeking to decarbonize



Faster deployment hydrogen solutions

# TOTAL SERVICEABLE MARKETS (2023 - 2029)



## **CHRS**

*Compact Hydrogen Refueling System*

**\$884.6 million**



## **SGHP**

*Scaleable Green Hydrogen Production Plant*

**\$747.3 million**



## **EV Charging**

*EV Charging Station Installations and Support*

**\$283.7 million**



## **LeefH2S**

*Hydrogen emissions reduction device for engines*

**\$182.7 million**



## **HCC**

*Hydrogen Carbon Cleaners*

**\$58.4 million**

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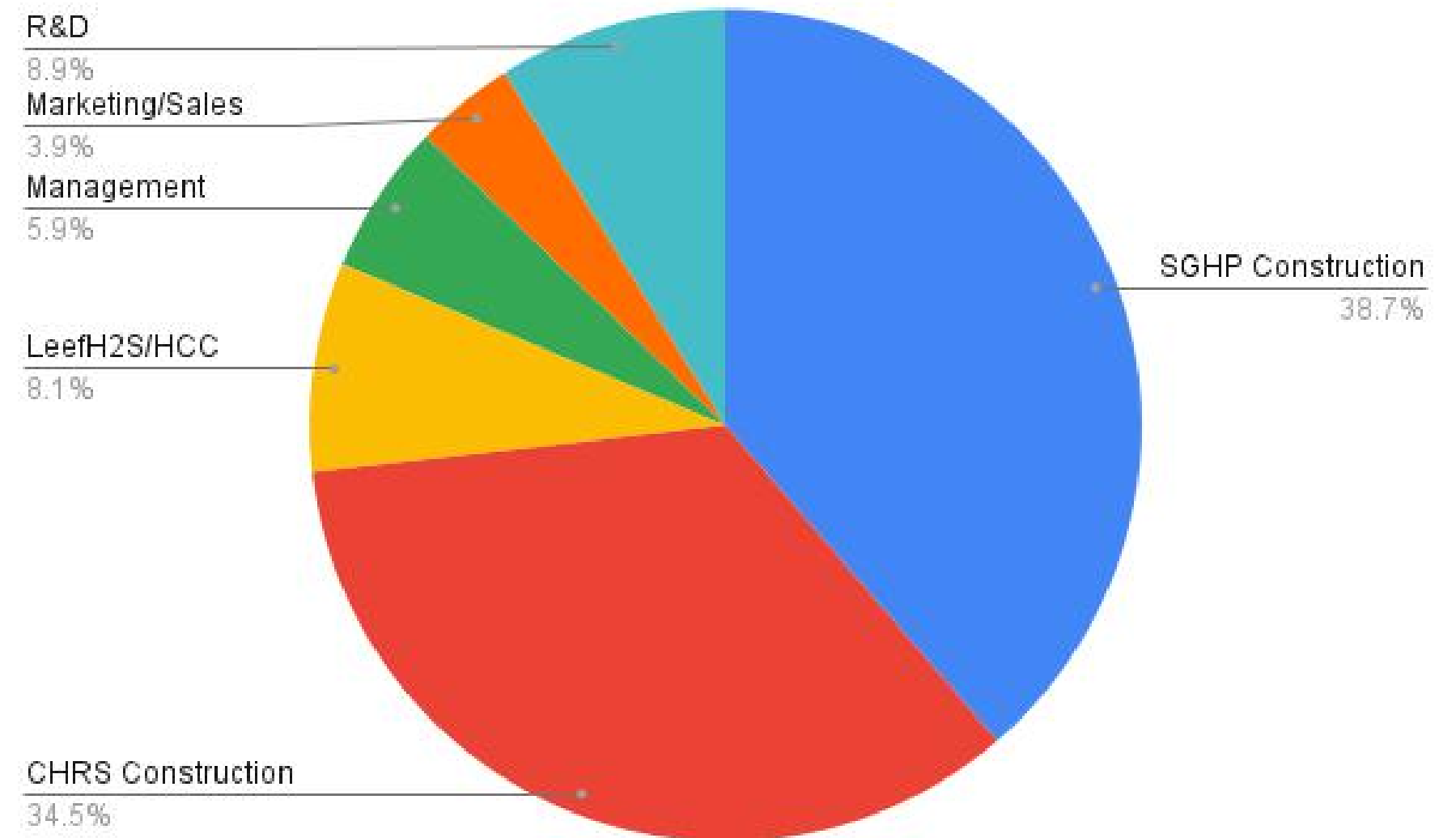
**\$2.16 billion**

# Funding



## Use of funds

- Develop and commission CHRS prototype
- Launch first CHRS installations
- CAPEX for SGHP producing up to 2,000kg of hydrogen a day
- Complete LeefH2S pilot
- Fullfill orders and begin manufacturing Hydrogen Carbon Cleaner



# Leadership Team



**Donald W Owens,  
Chairman and Founder**

Over 13 years in Clean Hydrogen Product and Service Development. Mr. Owens has dedicated the last decade to creating a customized hydrogen solutions that would become broadly applicable- the LeefH2, securing 19 patents. He has personally tested and verified his technology in laboratories approved by the U.S. Environmental Protection Agency.

Previously, Mr. Owens' was CEO of Business Internet Systems (BIS). In the late '00s, he launched a first-of-a-kind online platform that serviced the major business card printing needs of the US Congress, Branches of The Executive Office, and The Department of State. He also spearheaded early web and networked database optimization for massive clients such as the US Census Bureau.

He began his career as a patent attorney for Western Electric and Bell Labs after attaining his law degree from Georgetown University. He received an engineering degree at General Motors Institute (now Kettering).



**Paul H Mueller,  
CEO and President**

Over 30 years of experience in the Aviation, Aerospace, and Defense industries leading and growing companies in complex and dynamic technical environments, holding CEO and P&L leadership positions since 2007.

He attained his Engineering degree from the University of Notre Dame. Paul started his career as a U.S. Marine Corps Infantry Officer where he learned his team building and leadership skills, a cornerstone of his success.



**Greg Heller,  
CTO**

Mr. Heller brings valuable strategic insight to market strategies and opportunities while ensuring efficient company operations. Throughout his career, Mr. Heller has had the pleasure of working with renowned companies and innovators such as Arnold O Beckman, a top pioneer of scientific instrumentation and inventor of the electronic PH Meter, O2 Analyzer, Ultracentrifuge, and many more; Gordon Moore, co-founder of Intel; Brian Greene, leading theoretical physicist and string theorist; and Robert Gore of W.L. Gore and Gore-Tex, developer of expanded polytetrafluoroethylene applications including computer cables, medical equipment, and spacesuits.

Building on his experience as a managing partner at a consultancy serving Fortune 500 companies, Ivy League universities, and leading technology, healthcare, and material science companies, he contributes a unique perspective to HNO's leadership team.



**Hossein Haririnia,  
CFO**

Mr. Haririnia oversees the financial functions of HNO International. He provides technical assistance to the President on corporate-level decision-making.

Before that, as a Chief Financial Officer, he managed financials for for-profit and nonprofit organizations. He also assisted in budget and cost proposal presentations for companies in countries, including Iran, Turkey, Dubai, Azerbaijan, and China.

Mr. Haririnia has managed multi-million dollar budget preparations for government entities such as NASA, the US Department of Labor (DOL), and the US Department of Transportation(DOT). He has supervised a team of accounting staff and has served as an auditor and fraud examiner.



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# Thank you

**Website : [www.hnointl.com](http://www.hnointl.com)**

**Email : [info@hnointl.com](mailto:info@hnointl.com)**

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