



Chart & Cryomotive

May 19, 2021

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Chart Industries, Inc. is a leading independent global manufacturer of highly engineered equipment servicing multiple applications in the Energy and Industrial Gas markets. Our unique product portfolio is used in every phase of the liquid gas supply chain, including upfront engineering, service and repair. Being at the forefront of the clean energy transition, Chart is a leading provider of technology, equipment and services related to liquefied natural gas, hydrogen, biogas and CO2 Capture amongst other applications. We are committed to excellence in environmental, social and corporate governance (ESG) issues both for our company as well as our customers. With over 25 global locations from the United States to Asia, Australia, India, Europe and South America, we maintain accountability and transparency to our team members, suppliers, customers and communities. To learn more, visit www.Chartindustries.com.

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Hydrogen Macro Update

75 countries with “net zero” targets; 31 with hydrogen strategy

$345 billion total investment announced until 2030

3 times increase in announced clean hydrogen production capacity compared to last year

228 Hydrogen Projects under development globally

Source: Hydrogen Council / McKinsey & Company

News Already This Week:

- Energy Estate has proposed the Hunter Hydrogen Network (H2N) to create Australia’s first hydrogen valley, including production, transportation and export of hydrogen in the region
- Mitsui OSK Lines & Mitsui E&S Machinery are evaluating installing hydrogen-powered port cargo handling machines in Japan
- Germany provided a roadmap for increased use of sustainable aviation fuels, with a target of annual production of 200,000 tonnes of green kerosene by 2030

Takeaway: Chart having the broadest set of process technologies, products and solutions for the expanding and diverse hydrogen market will provide the most market penetration

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Inorganic Investment Principles

(1) Brings Chart access to customers and commercial projects that could not be accessed without significant organic investment

(2) Brings Chart access to geographies that otherwise could not readily be accessed due to lack of product experience in the region, certification requirements, or government funding and relationships

(3) Adds equipment or process that builds out the "a la carte" menu or full solution menu for applicable markets… for example:

- *BlueInGreen water treatment technology + Chart bulk tanks*
- *Cryo Technologies He and H2 liquefaction process + Chart storage, transport, and BAHX*
- *Chart IPSMR® + Chart ACHX/BAHX/cold boxes*
- *SES cryogenic carbon and direct air capture technology + Chart ACHX, BAHX and storage tanks*
- *And now… Chart HLH2 onboard vehicle tanks + Cryomotive CcH2 modular tanks*

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Chart's Strategic Acquisitions and Investments

2018 / 2019

2018:
Completes BAHX capacity expansion in La Crosse, WI

2018:
Acquires Skaff Cryogenics

2018:
Acquires VRV

2018:
Divestiture of oxygen concentrator business

2019:
Acquisition of Air-X-Changers

2020

Divestiture of cryobio product line to Cryoport for $320M cash

Development Agreement for LH2 automotive

Completed master supply agreement

30M Euro investment with commercial MOU

Acquisition of cryogenic and H2 trailer business and former microbulk business

Acquisition of water treatment business

Investment in Canadian H2 integrator

Acquisition of SES, carbon capture technology

2021

$15M Investment and commercial MOU Completed Feb 2, 2021

Joint development MOU February 10, 2021

Acquisition of Cryo Technologies for $55 million cash (Feb 16, 2021)

Investment of $25 million for 5% ownership and commercial MOU (March 31, 2021)

Intend to be Cornerstone, early investor in forthcoming Five T Hydrogen Fund (50 million Euro investment over coming years)

Commercial and development MOU (no investment) for control systems and instrumentation in our modular solutions

Minority investment of 6.5M Euros with commercial agreement

- Based in Germany with strong relationships across Europe, China, Korea and Japan
- Owner of cryogenic storage and refueling technologies for long-haul comml vehicles, buses and other vehicular applications
- Deliver modular, compact and cost-effective cryogenic hydrogen stations
- Technology piloted and demonstrated by BMW & partners
- Several patents owned for CcH2 technology

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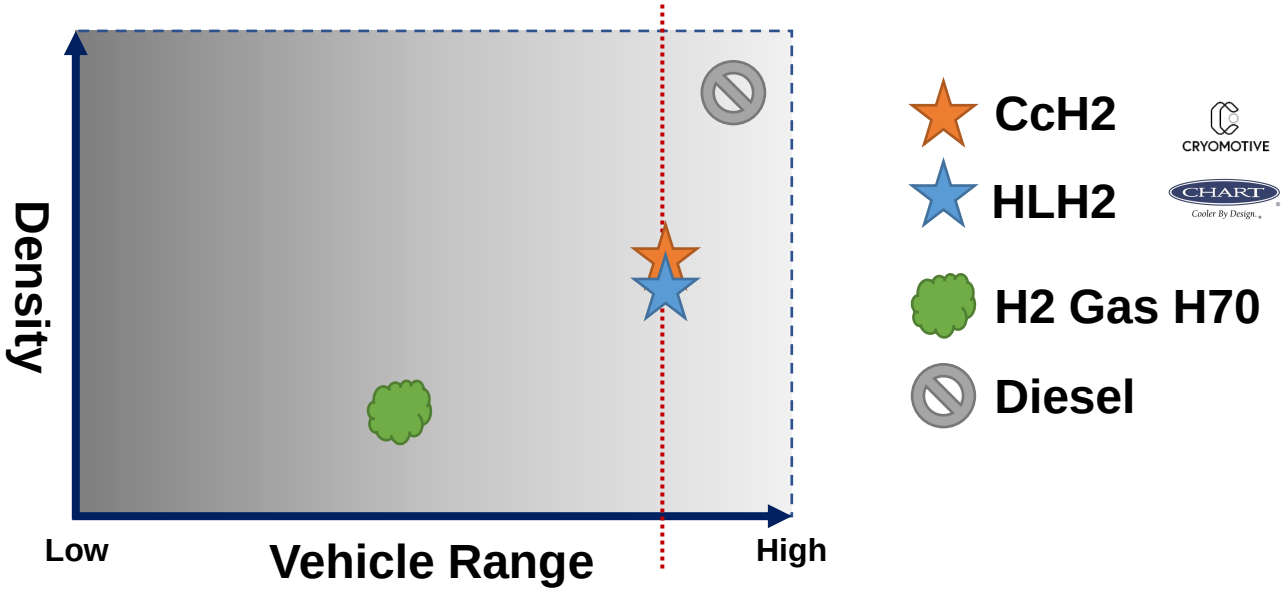
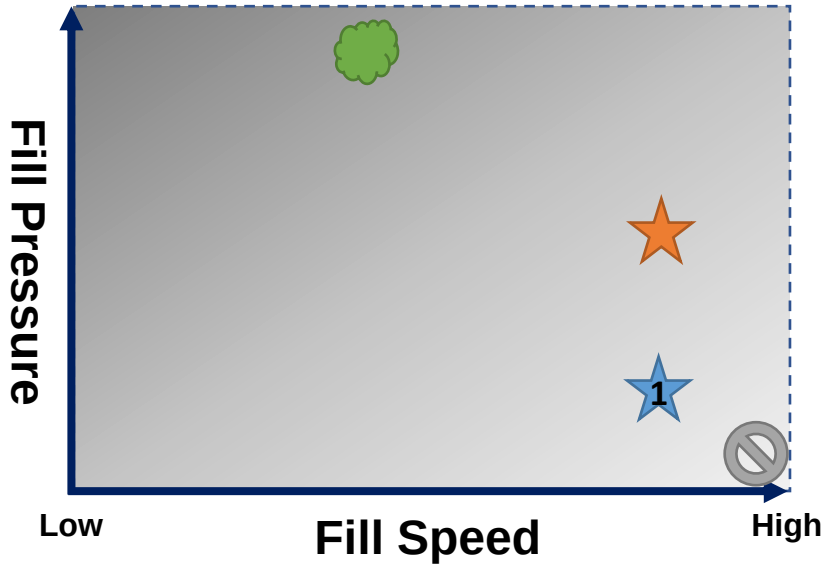
Cryomotive CcH2 and Chart HLH2 Technologies





Storage & operation

- Highest H2 to volume ratio
- Long hold time, no venting losses in normal operation
- Sufficient operating pressure to feed all types of FCs
- No pressure building after fueling

Refueling Benefits

- One-phase fueling
- Single fuel connection
- Shorter fueling times than 700 bar gas H2
- Lower energy consumption of fuel station

(1) This fill time for HLH2 is in regular cold operation with a high flow rate LH2 pump

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Modularity of Onboard Tanks is a Differentiator

Both Cryomotive's CcH_2 CRYOGAS storage and Chart's HLH2 (and HLNG) offers flexible multi-vessel integration options:

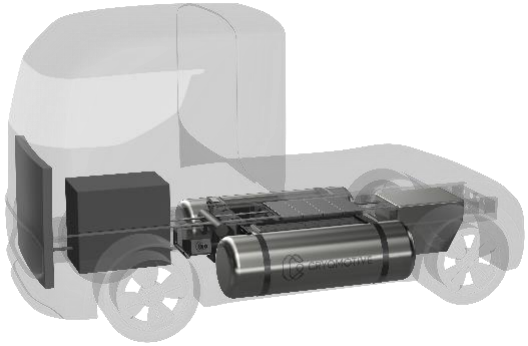
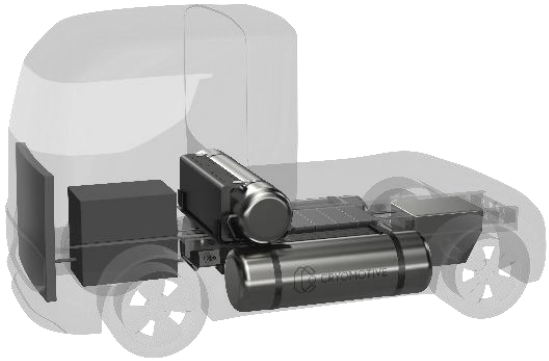
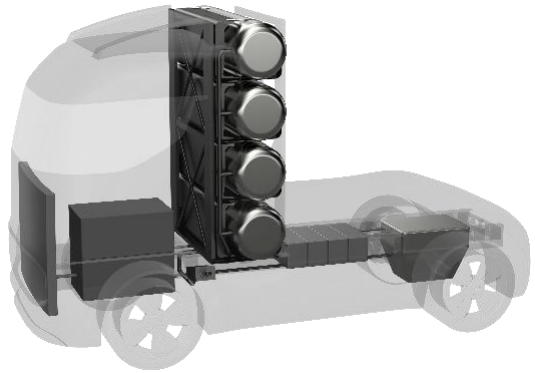
2-tank CcH_2 storage system along the frame (Cryomotive picture)	3-tank CcH_2 storage system along frame & behind cabin (Cryomotive picture)	4-tank CcH_2 storage system behind the cabin (Cryomotive picture)
		

Chart Side Mounted:

Typical Gaseous H70 Storage System Behind Cab:

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Cryomotive Leadership Team

Dr. Tobias Brunner, CEO and Managing Director, Cryomotive GmbH

- Managing Director HYNERGY GmbH (April 2015 – present)
- Prior to HYNERGY Dr. Brunner served the BMW Group in various roles for more than 10 years
  - Served as head of BMW's Technology Project Hydrogen Fuel Cell
  - Directed the development of fuel cell electric vehicle prototypes and test fleets as well as novel cryogenic storage and refueling technologies
- Panel reviewer for the European Commission, US Department of Energy and Research Council of Norway
- Author of several publications on hydrogen technology
- Owner of a dozen patents on cryogenic hydrogen storage and refueling technologies

Dr. Christiane Heyer, CFO and Managing Director, Cryomotive GmbH

- Managing Director HYNERGY GmbH (April 2015 – present)
- Prior lead roles in production, strategic planning, marketing, controlling and M&A in the chemical industry.
- Additionally, Dr. Heyer has been a managing partner of a US-based Private Equity firm leading their European business.

Christian Forstner, CTO, Cryomotive GmbH

- Prior to Cryomotive Managing Director at SAG Innovation GmbH, responsible for R&D of LNG and LH2 tanks systems as well as leading positions in the automotive industry (Schaeffler, Miba Group)

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Cryomotive and Chart Synergies

- Leverage both parties' relationships with vehicle manufacturers in Europe and Southeast Asia, specifically Korea, Japan and China
- Gives Chart greater presence in the European H2 market and greater access for liquefaction, storage, transports and does the same for Cryomotive in the United States
- Cryomotive is full member of German Clean Energy Partnership which influences the rule setting on Hydrogen for mobility, in particular around standards and certifications
- The Cryomotive CcH2 fueling option is liquid hydrogen base, not compressed H2, which promotes our full product line. For the high-pressure storage option (CcH2), Chart can supply:
  - Fuel station equipment
  - High-pressure hydrogen pump
  - Aluminum inner vessel, outer vessel jacket and vacuum insulation
  - Hydrogen transport trailers and ISO Containers
  - Engineering to adapt to US codes and standards for the US market

Two options for heavy truck fuel delivery are at the heart of heavy-duty truck manufacturers hydrogen decision making (and now Chart has a way to offer both):

- Liquid storage
- Cryogenic high-pressure storage (CcH2)

Chart Equipment for Cryomotive CcH2 Applications (1/2)

Liquid hydrogen storage tanks are utilized in the hydrogen supply chain from production through transport and storage at the Cryocompressed hydrogen vehicle fuel station

Cryocompressed (CcH2) vehicles drive the need for fuel stations with specific technology to prepare and deliver the cold cryo temperature and high-pressure hydrogen that the vehicle fuel tanks require, much of which is provided by Chart:

- LH2 storage tank, controlled dispensing, for a highly efficient station that will fuel Cryocompressed vehicles faster than today's 700 bar gaseous stations and comparable to the diesel fueling experience
- Most critical in the fuel equipment is the **LH2 pump**, which Chart is developing for high pressure 700 bar vehicle fueling today and will be capable of dual-use for Cryocompressed fueling

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Chart Equipment for Cryomotive CcH2 Applications (2/2)
Transport Systems

A critical link in the hydrogen supply chain to Cryocompressed H2 vehicles is the transport of Liquid Hydrogen to the fuel stations.

- The vast majority of bulk LH2 transport up until today has been via on-road transport trailers
- Recently Chart developed smaller doubles trailers specifically for the fuel station market
- Looking forward, as there will be more H2 vehicles in more regions, there will be a need for other modes of transport including ISO container and rail car, both of which we can provide

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Our Specialty Markets Keep Growing

Water Treatment

700M

- Improving water quality and wastewater reuse utilize liquid oxygen and CO2 in purification process

Drivers of Size Opportunity

- Regulation on water treatment
- Population growth

Over The Road Trucking

750M

- LNG as alternative fuel to diesel for heavy duty vehicles (lower emissions, engine noise, etc.)

Drivers of Size Opportunity

- Regulations

Hydrogen

2,400M

+$100

- H2 vehicle fueling stations, transport equipment and liquefaction storage at H2 production sites
- H2 storage and mobility equipment
- BAHX for H2 liquefaction
- H2 liquefaction
- CcH2 equipment

Drivers of Size Opportunity

- Buildout of hydrogen fueling infrastructure
- Development of “green hydrogen” industry
- Government stimulus packages
- Brand name fast followers

Food & Beverage

500M

- Food preservation equipment
- Nitrogen dosing equipment

Drivers of Size Opportunity

- Nitro-beverage changeover

Carbon & Direct Air Capture

600M

- Air cooled heat exchangers
- Storage tanks
- BAHX and cold boxes

Drivers of Size Opportunity

- Carbon emissions reduction targets
- CO2 supply shortage

Cannabis

250M

- Liquid CO2 storage and supply / delivery systems
- Used in grow houses, CBD oil extraction and packaging

Drivers of Size Opportunity

- Legalization of cannabis
- Regulatory approval for CBD.

Helium Liquefaction

250M

- Helium Liquefaction
- Storage
- ISO Containers
- Transport

Drivers of Size Opportunity

- Differentiated process
- Helium consistently in high demand
- Russia vast natural resources

Molecules By Rail

200M

- Gas by rail tender cars approved for use

Drivers of Size Opportunity

- Legalization of LNG by train in the U.S.
- Expected growth in EU

Industrial Lasers

200M

- High purity liquid nitrogen (gas assist) provides a faster cut and superior edge, free of impurities

Drivers of Size Opportunity

- Uptime requirements in manufacturing
- Reducing steps in production

Space

200M

- Cryogenic liquid propellants are used as fuel for rocket propulsion

Drivers of Size Opportunity

- Proliferation of private space travel industry

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Measuring Progress on Our H2 Addressable Market

Prior to October 14, 2020	Prior to February 15, 2021	Prior to April 1, 2021	Prior to May 19, 2021	Current
GTLS TAM[(1)] $600 Million	**GTLS TAM $1.1 Billion**	**GTLS TAM $2.1 Billion**	**GTLS TAM $2.30 Billion**	**GTLS TAM $2.4 Billion**
• 100 Fueling stations • 25 hydrogen transports • 4 hydrogen liquefiers • Space launch tanks	• 136 Fueling stations • 83 hydrogen transports • 6 hydrogen liquefiers • 260 storage tanks • 2 Marine Fuel Opportunities • Space launch tanks	• 136 Fueling stations • 83 hydrogen transports • 20 hydrogen liquefiers • 260 storage tanks • 2 Marine Fuel Opportunities • Space launch tanks • Onboard LH2 tanks	• 136 Fueling stations • 100 hydrogen transports • 20 hydrogen liquefiers • 260 storage tanks • 2 Marine Fuel • Space launch tanks • Onboard LH2 tanks • 10-15 Transform plants	• 136 Fueling stations • 100 hydrogen transports • 20 hydrogen liquefiers • 260 storage tanks • 2 Marine Fuel • Space launch tanks • Onboard LH2 tanks • 10-15 Transform plants • Cryomotive CcH2 applications
Not included in TAM • Marine opportunities • HLH2 onboard tanks • Hydrogen pumps	**Not included in TAM** • HLH2 onboard tanks • Hydrogen pumps	**Not included in TAM** • Hydrogen pumps	**Not included in TAM** • Hydrogen pumps	**Not included in TAM** • Hydrogen pumps for non-Cryomotive applications

(1) TAM = Total Addressable Market for Chart existing process and equipment

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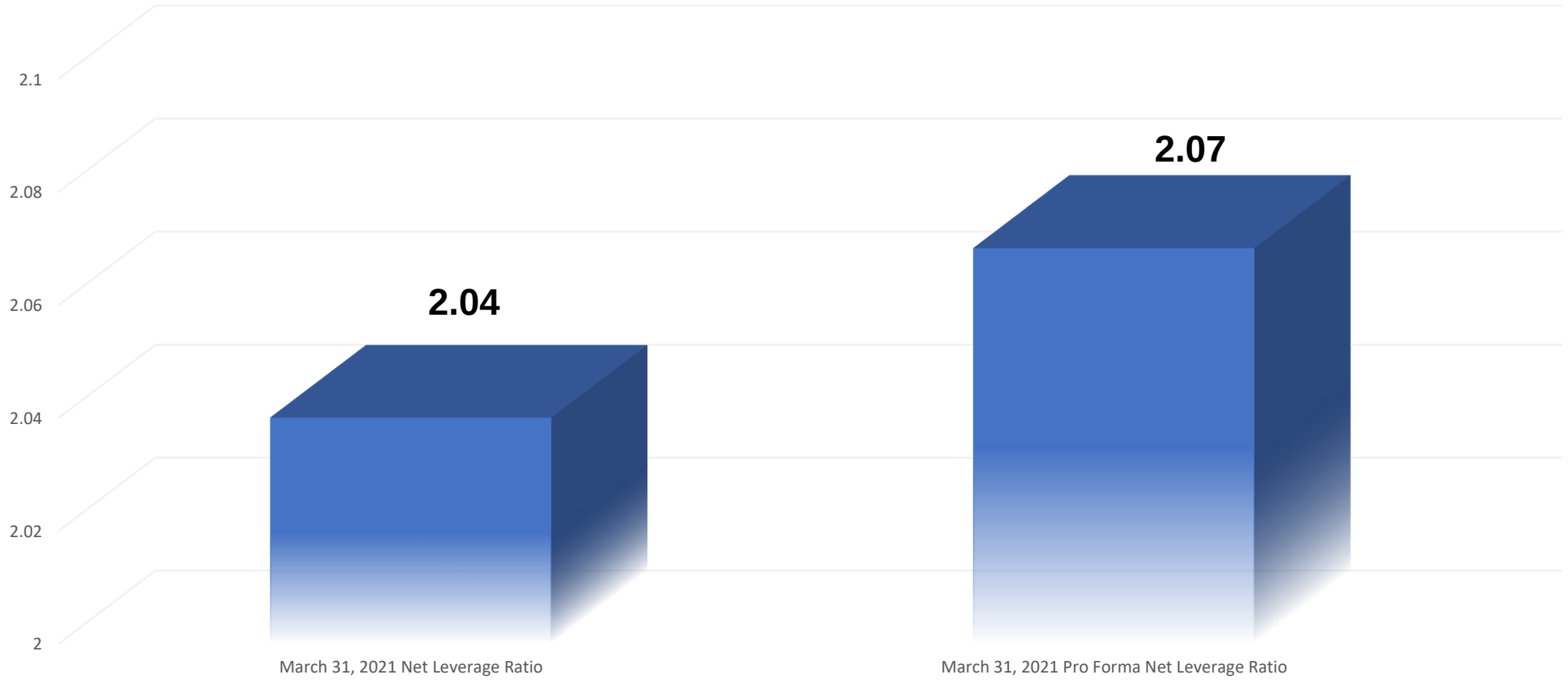
Net Leverage Ratio

March 31, 2021 Actual and Pro-Forma for Cryomotive investment



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