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Today's presenters



Morten Holum President and CEO

- CEO of Hexagon Purus since the carveout from Hexagon Composites in 2020
- Former CEO of Saferoad Group
- Previously held senior management positions at Norske Skog, Hydro and American Airlines



Dilip Warrier CFO

- Joined Hexagon Purus as CFO in August 2020
- Former VP Finance at Agility Fuel Solutions, and equity research at Stifel Nicolaus
- MBA from NYU



Michael Kleschinski EVP Light Duty, Distribution & Cylinders

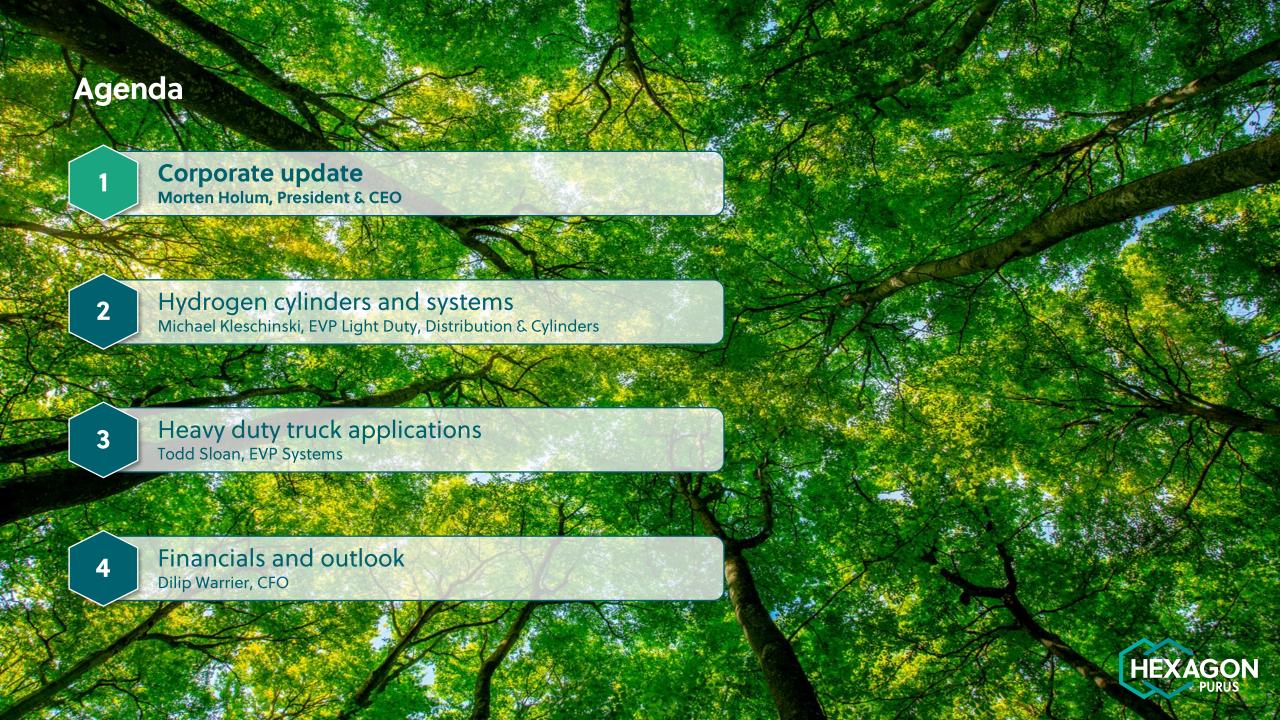
- Joined Hexagon Composites as EVP in 2016 before moving to Hexagon Purus in 2020 as part of the carve-out
- Previously a key management member within the production engineering team at Hexagon Composites

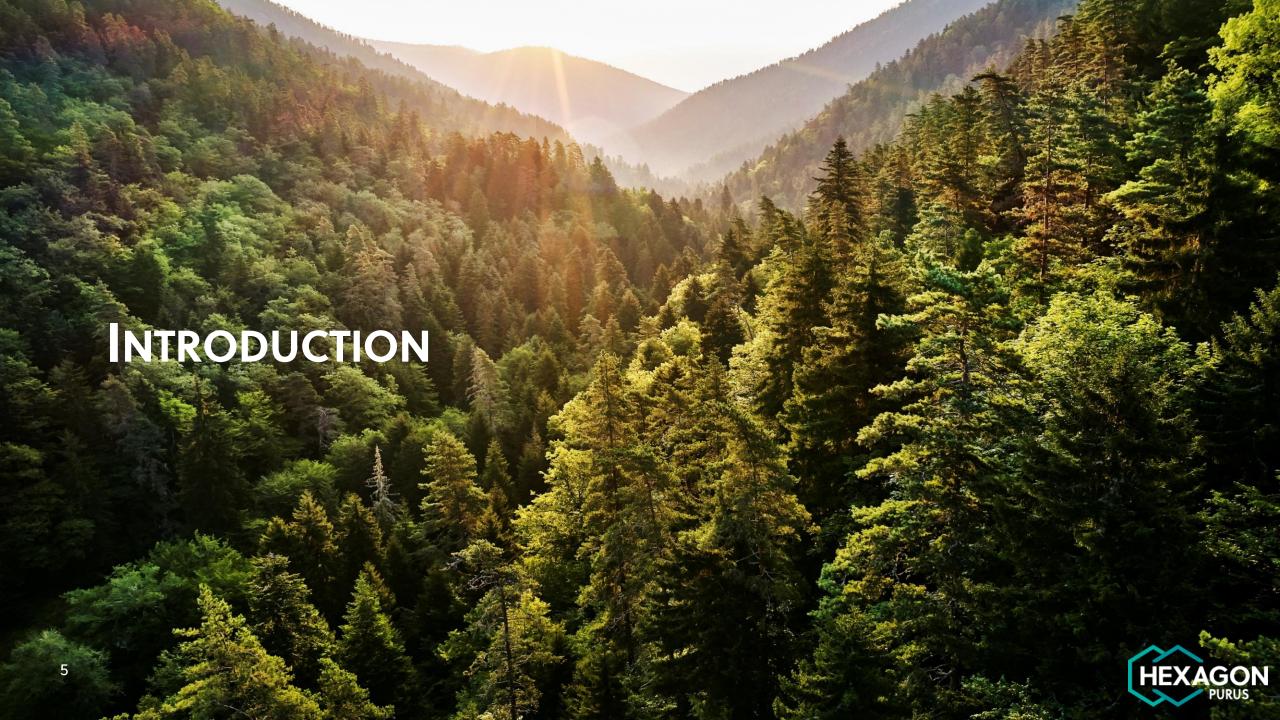


Todd Sloan EVP Systems

- Joined Hexagon Purus as EVP in 2020
- Founder of Agility Fuel Solutions
- Industry innovator with 20+ years of clean mobility experience









Access to independent energy supply to limit dependence on unreliable suppliers in times of crisis



...and hydrogen will play a key role in enabling energy transition to reach zero emission and energy independence



Enables zero-emission technologies reducing local pollution



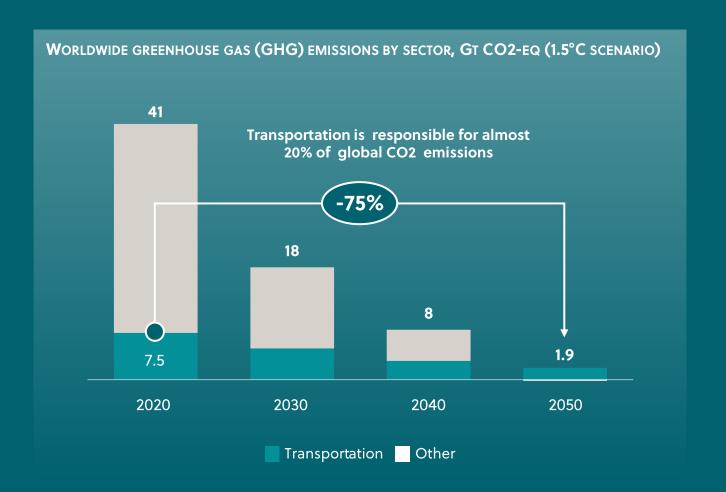
Feedstock in industrial processes reducing dependence on carbon-based energy sources



Enables diversification of energy gases through local production reducing dependence on unreliable suppliers of carbon-based energy



75% reduction in global GHG emissions from transport sector by 2050 is required to reach the 1.5 degrees ambition



Primary focus of Purus' activities **KEY TAKEAWAYS FOR TRANSPORT** GHG emissions need to be reduced throughout life**cycle** – requiring industry activity along 3 dimensions Zero-emission vehicles (FCEV & BEV) or zero-emission fuels (biofuels or synthetic fuels) to reduce tank-to-wheel emissions Zero-emission supply chains & **production** to reduce lifecycle emissions Renewable power (for electricity, H2 and fuels) to reduce well-to-tank emissions

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Hexagon Purus' complementary technology solutions drive decarbonisation across all mobility end markets



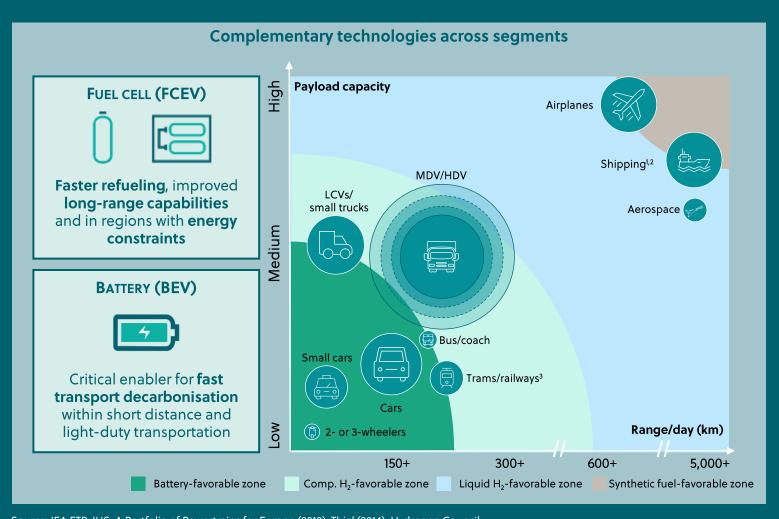


HYDROGEN DISTRIBUTION MODULES, STATIONARY STORAGE AND MOBILE REFUELLING STATIONS





Hydrogen and batteries are complementary zero-emission technologies across segments



COMPLEMENTARY TECHNOLOGIES



Efficiently utilizing green energy to improve resource usage



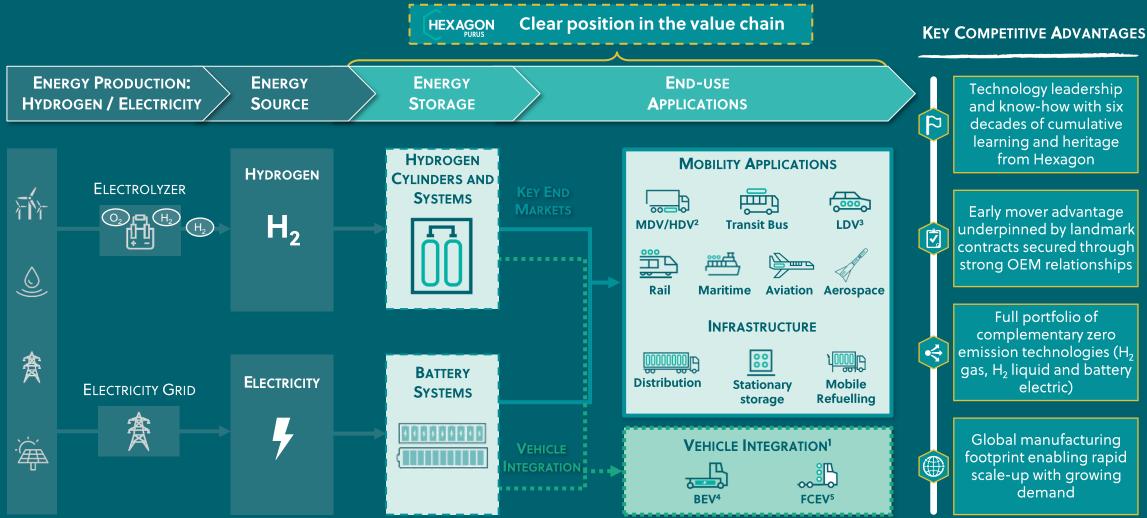
Faster decarbonization building momentum towards zero-emission transportation



Highly complementary infrastructure



Hexagon Purus plays an important part in the renewable energy and zero emission value chain





Hexagon Purus is a leading provider of hydrogen and battery electric technology for zero-emission mobility

COMPONENTS SYSTEMS VEHICLE INTEGRATION

High-pressure, lightweight Type 4 hydrogen cylinders

Leading cylinder technology supported by a fine-tuned and scalable production setup

Suitable for a vast variety of zero emission mobility applications





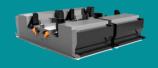


Storage systems for a range of mobility applications

Leading distribution trailers for transportation and refuelling

Battery systems

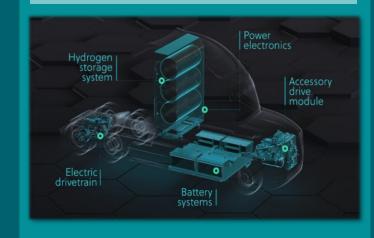
High-performance, modular and lightweight battery systems for MDV/HDV



Complete vehicle integration

Complete electric drivetrain integration for BEVs and FCEVs¹

BEV and FCEV¹ drivetrain integration



Hydrogen

Battery / EV systems



Longstanding experience from the NASA space mission in the 60s, to becoming a technology leader driving hydrogen and battery innovation

Hexagon Purus is built on...



...of composite pressure vessel experience...



...of hydrogen experience and...



...of system integration know-how



1969
Lincoln Composites started with filament-wound rocket motor cases for NASA



Acquired Lincoln Composites, a supplier of highpressure cylinders



2015
JV with Agility Fuel
Systems, creating a
vertically integrated
Tier 1 clean solutions
provider



2016
Acquired Xperion to strengthen European footprint and hydrogen capabilities

Successfully building the clear market leader in Type 4 high-pressure cylinders







Invested in liquid H₂ tank producer
Cryoshelter, to further accelerate
FCEV transition

HEXAGON COMPOSITES 2000 Norwegian Applied Technology ASA was merged with Devold AMT AS, forming today's Hexagon Composites



2002
Developed first hydrogen fuel cylinder capable of handling 700 bar of operating pressure



Awarded development contract for supply of hydrogen cylinders to Mercedes Benz' Bseries FCEV pilot



2016 First battery pack development Carve-out of Hexagon zero-emission business



JV agreement with CIMC Enric in China – expected to be the world's largest hydrogen market

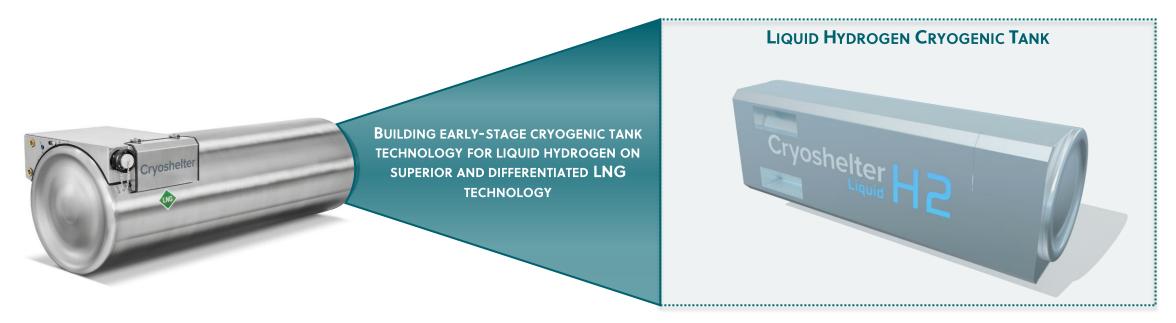


1,000,000+ miles on-road with Hexagon Purus' battery systems

Strong Hexagon heritage to leverage after carve-out



Investment in cryogenic storage technology leader Cryoshelter



REVOLUTIONARY CRYOGENIC STORAGE TECHNOLOGY

- THE TRANSACTION BRINGS EARLY-STAGE EXPERTISE IN LIQUID HYDROGEN TANK TECHNOLOGY FOR ZERO EMISSION MOBILITY **APPLICATIONS**
- POTENTIAL FUTURE COMPLEMENTARY OFFERING TO HEXAGON PURUS' LEADING COMPRESSED HYDROGEN AND BATTERY ELECTRIC **TECHNOLOGY**
- COMMERCIAL VOLUMES NOT EXPECTED IN THE NEAR TO MEDIUM TERM



2-4X IMPROVED HOLD TIME

OEM MODULAR DESIGN

SYSTEM OPTIMIZATION

ELECTRONIC CONTROL

FLEXIBLE MANIFOLD POSITION







Hydrogen transit buses









Heavy-duty applications





Hydrogen and battery systems









Hydrogen storage systems for maritime applications

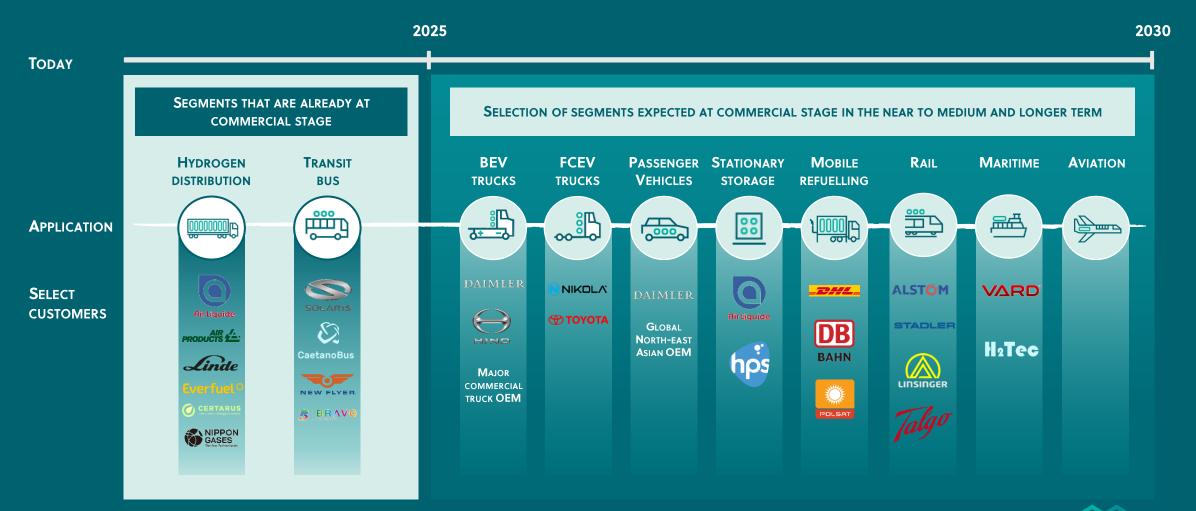








Hexagon Purus is ideally positioned to benefit from market leading positions in several application areas





Hexagon Purus is a technology leader in hydrogen and battery systems

CATEGORY	Hydrogen	BATTERY SYSTEMS	K EY TAKEAWAYS
Product			 H₂ Type 4 cylinder champion with broad experience, deep know-how and production at competitive price point
Speed to market			 Strong performance of battery systems far above industry requirements due to unique understanding of vehicle
Operations			integrationExpansion of current manufacturing
Aftermarket service			footprint, gearing up for mass-production at scale
	Improving Well-positioned	d Leading	 Roadmap to develop aftermarket and repair service offering as market and installed base grows



Early mover with unique market position validated by major customer wins and recurring business

SELECTION OF MILESTONE COMMERCIAL AGREEMENTS TO BE EXECUTED IN THE COMING YEARS



MULTI-YEAR CONTRACT WITH NIKOLA FOR SUPPLY OF HYDROGEN CYLINDERS FOR NIKOLA'S TRE HEAVY-DUTY FCEV TRUCKS

EST. VALUE: EUR >200M



BATTERY SYSTEMS FOR MAJOR COMMERCIAL TRUCK OEM

NOMINATED FOR SERIAL SUPPLY OF BATTERY SYSTEMS TO MAJOR COMMERCIAL TRUCK OEM FROM 2024-2027 (2029)1

EST. VALUE: USD 0.8-1.2BN





LONG-TERM BINDING LOI FOR SERIAL SUPPLY OF **BATTERY SYSTEMS FOR** MULTIPLE HINO TRUCK **PLATFORMS FROM 2024**

EST. VALUE: USD 1BN



SERIAL SUPPLY OF HYDROGEN SYSTEMS FOR FCEV BUSES

EXCLUSIVE SUPPLY AGREEMENT FOR HYDROGEN SYSTEMS WITH LEADING **EUROPEAN BUS OEM FROM** 2021-2024

EST. VALUE: EUR 30M



Air Liquide

MULTI-YEAR GLOBAL SUPPLY AND NATIONAL EXCLUSIVITY AGREEMENT FOR HYDROGEN **DISTRIBUTION MODULES**

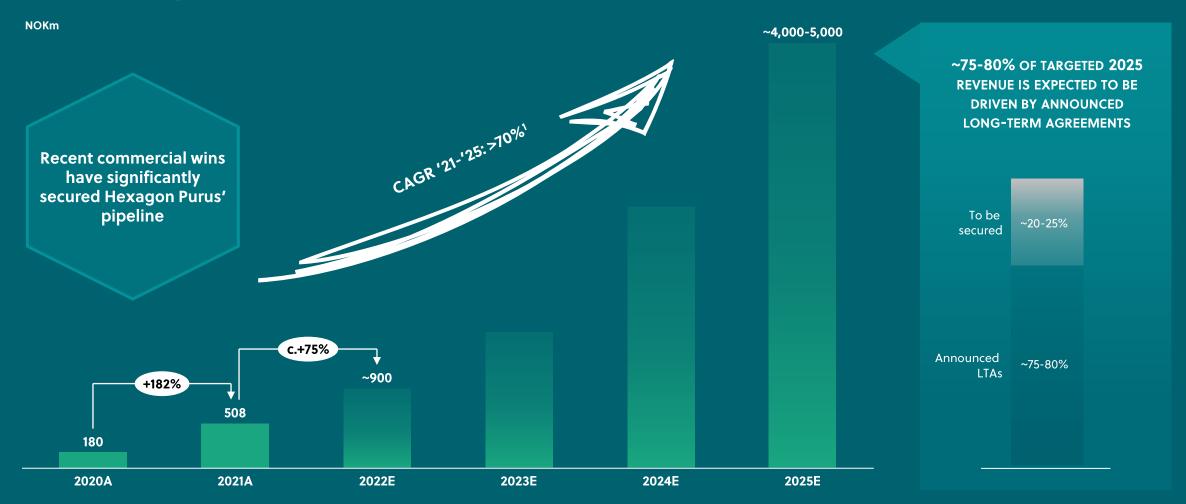








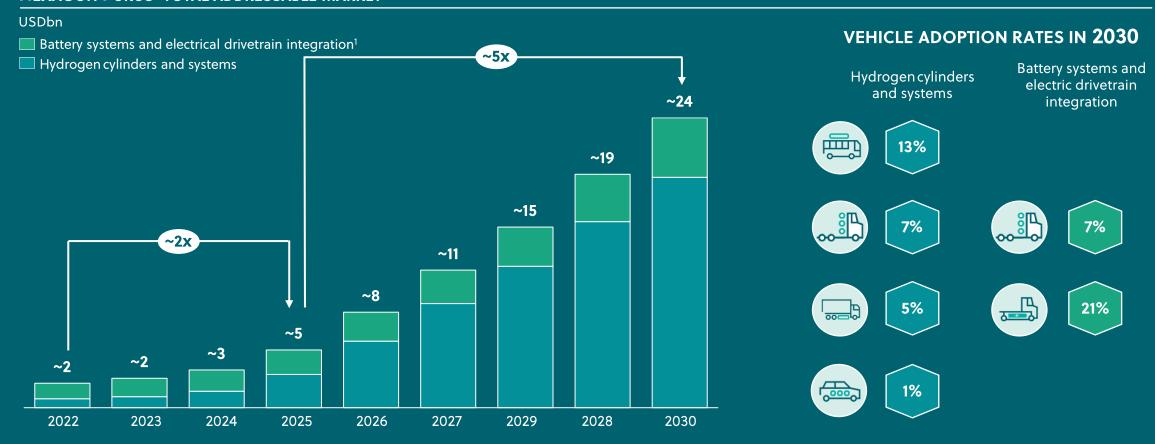
Competitive position in a growing market has led to significant top line growth, expected to continue into 2025 and beyond





Addressable market is expected to grow by more than 10x by 2030 reaching USD ~24bn

HEXAGON PURUS' TOTAL ADDRESSABLE MARKET

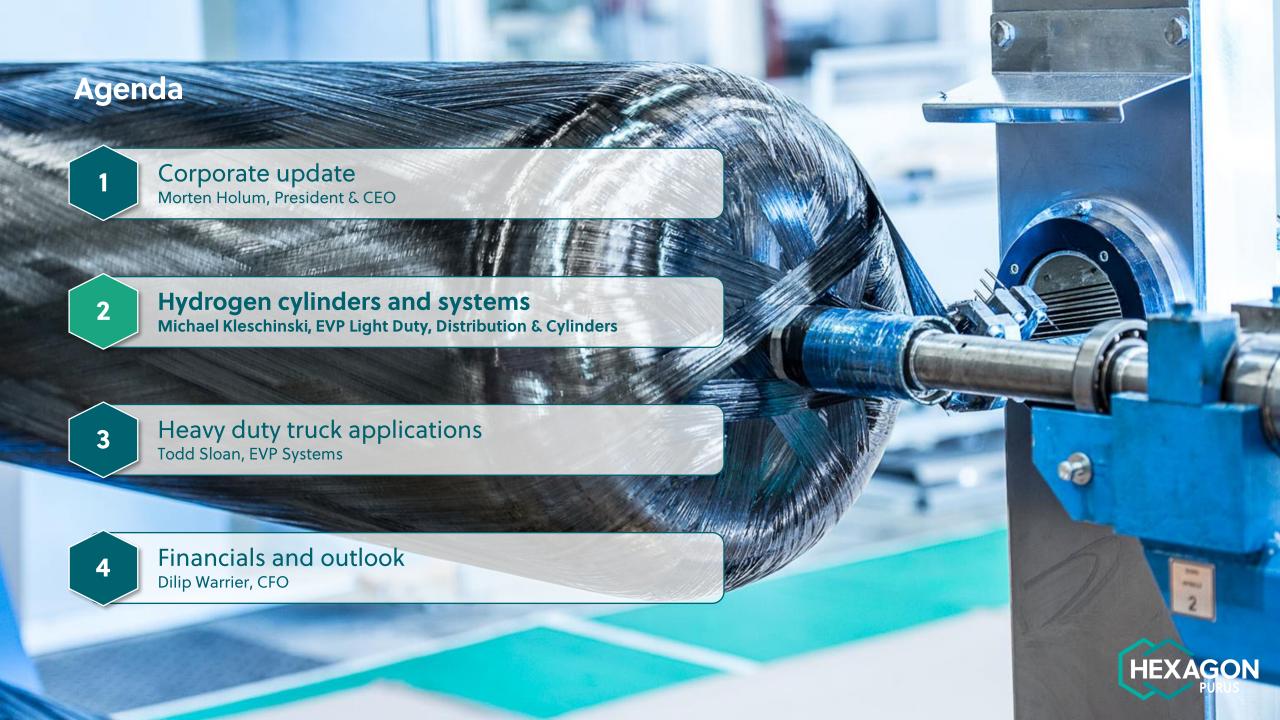




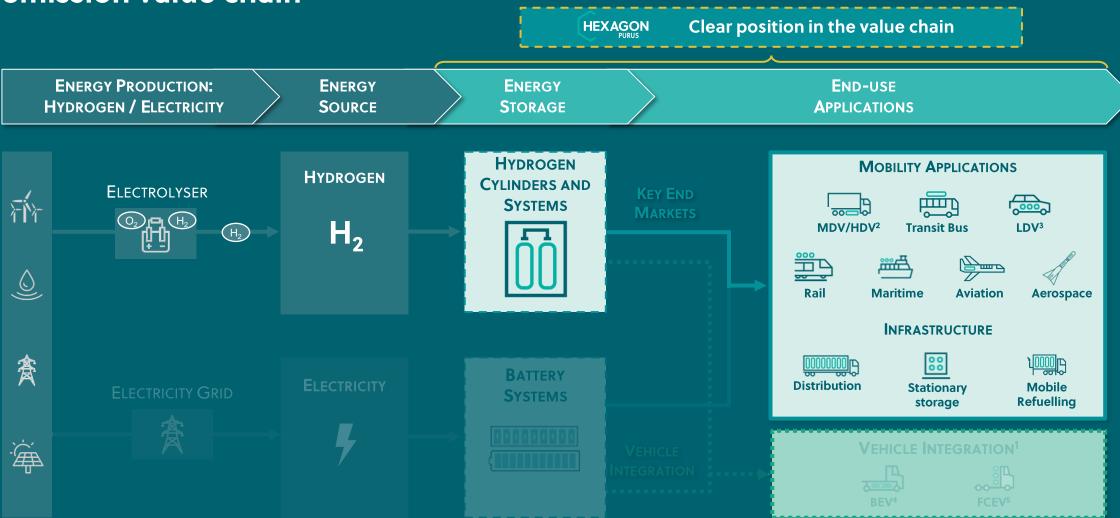
Entering next phase of industrial scale-up







Hexagon Purus plays an important part in the renewable energy and zero emission value chain





Hexagon Purus plays an important part in the renewable energy and zero emission value chain

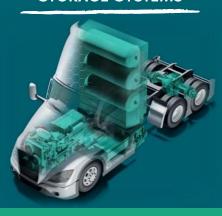




CYLINDERS



MOBILITY ENERGY
STORAGE SYSTEMS



A RANGE OF END-USE APPLICATIONS























HEXAGON PURUS' HIGH-PRESSURE TYPE 4 CYLINDERS



- **Carbon fiber composite** Contains the high internal pressure
- **Polymer liner** Creates the barrier for the compressed hydrogen gas
- **Valve interface** Provides interface to the hydrogen system







INFRA. - DISTRIBUTION

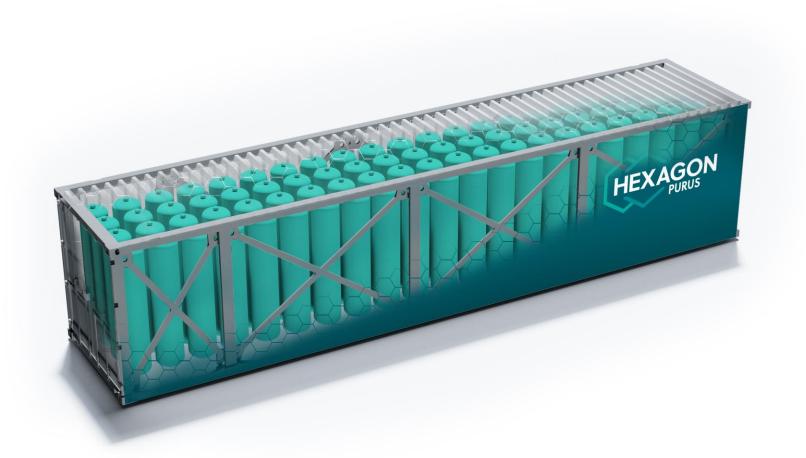
INFRA. - STORAGE

INFRA. – REFUELING

Mobility – On Road

MOBILITY - OFF ROAD

HEXAGON PURUS' DISTRIBUTION MODULE



Steel frame

Structure of the distribution system containing and protecting the cylinders for on-road and intermodal operations

Type 4 cylinders

Container for the compressed hydrogen up to **500 bar pressure** designed and approved for transport applications

Gas control

Piping and valves inside the container enabling loading and unloading of the compressed hydrogen



INFRA. - DISTRIBUTION

INFRA. - STORAGE

INFRA. – REFUELING

MOBILITY - ON ROAD

MOBILITY - OFF ROAD

HEXAGON PURUS' STATIONARY STORAGE



Steel frame

Structure of the storage system containing and protecting the cylinders in stationary operations

Type 4 cylinders

Container for the compressed hydrogen up to **1,000 bar pressure** designed and approved for stationary applications

Gas control

Piping and valves inside the container enabling loading and unloading of the compressed hydrogen



INFRA. – DISTRIBUTION

INFRA. – STORAGE

INFRA. - REFUELING

MOBILITY - ON ROAD

MOBILITY - OFF ROAD

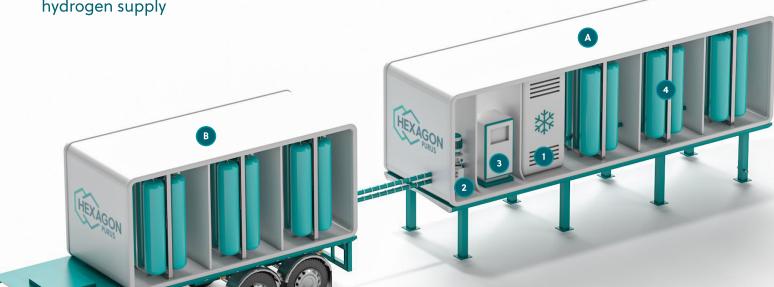
HEXAGON PURUS' MOBILE REFUELING SYSTEMS

Mobile refueler

Mobile solution for on-site refueling up to <u>350 bar pressure</u>

B Tank container

Swappable transportation solution flexible up to 1.0 ton of compressed hydrogen supply



1 Cooling

Pre-cooling of compressed hydrogen to increase fueling efficiency of vehicles

2 Compressor

Ensuring replenishment of the compressed hydrogen storage buffer

3 Dispenser

Gas management system to fuel the vehicles by cascading from the buffer storage

4 Buffer storage

High pressure 500 bar hydrogen storage for direct fueling into the vehicle



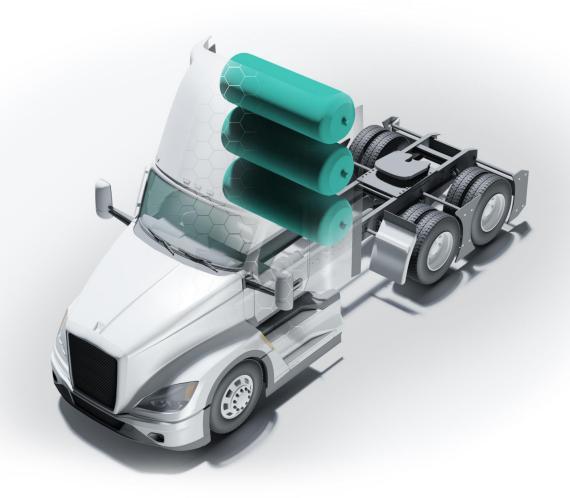
INDERS INFRA. – DISTRIBUTIO

INFRA. – STORAGE

INFRA. – REFUELING

MOBILITY - ON ROAD

HEXAGON PURUS' HEAVY-DUTY APPLICATIONS



Type 4 cylinders

- > 350-700 bar pressure cylinders
- Up to 9.8 kg hydrogen per single cylinder (larger capacities in development)
- Compliant with EC79 / HGV2, UNECE-R134 in development

- Customizable to OEM platforms
- Pre-assembled systems with weight optimized design
- Behind-the-cab and rail-mount possible



CYLINDERS

INFRA. - DISTRIBUTION

INFRA. – STORAGE

INFRA. - REFUELING

MOBILITY - ON ROAD

MOBILITY - OFF ROAD

HEXAGON PURUS' TRANSIT BUS APPLICATIONS



Type 4 cylinders

- > 350 bar pressure cylinders
- Up to 7.5 kg hydrogen per single cylinder
- Compliant with EC79, UNECE-R134 in development

- Standardized solutions that are adaptable for bus OEMs
- Longitudinally rooftop mounted cylinders
- Including fuel management systems
- > 37+ kg of hydrogen per system



CYLINDERS

INFRA. - DISTRIBUTION

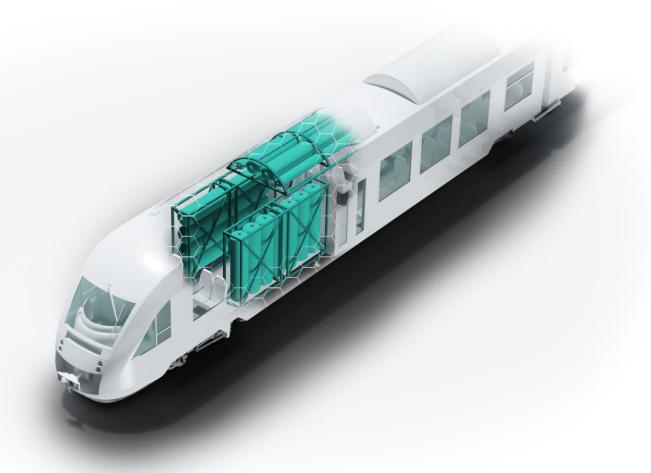
INFRA. – STORAGE

INFRA. - REFUELING

MOBILITY - ON ROAD

MOBILITY - OFF ROAD

HEXAGON PURUS' RAIL APPLICATIONS



Type 4 cylinders

- > 350 bar pressure cylinders
- Compliant with major railway standards

- > Rooftop or rail cart installation
- More than 200 kg H₂ on board storage
- Including fuel management systems
- Increased system robustness to meet rail standards
- Designed to meet 30-year operational requirements



rlinders Infra. – D

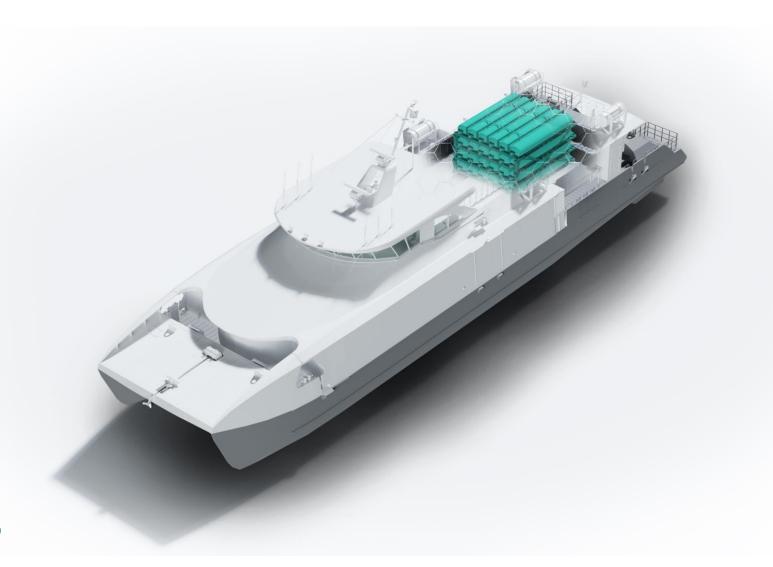
INFRA. - STORAGE

INFRA. – REFUELING

MOBILITY - ON ROAD

MOBILITY - OFF ROAD

HEXAGON PURUS' MARITIME APPLICATIONS



Type 4 cylinders

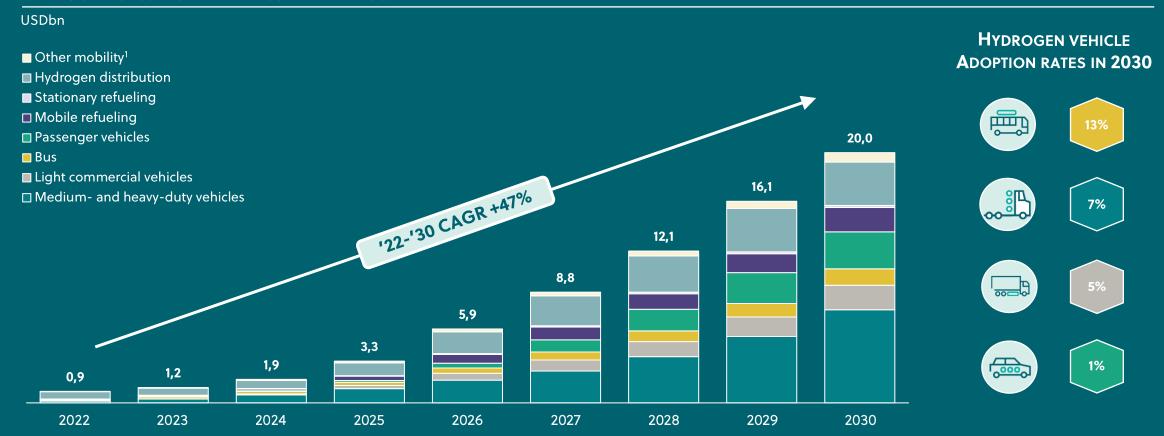
- > 250-380 bar pressure cylinders
- Up to 32 kg hydrogen per single cylinder
- Compliant with US Coast Guard, with additional standards under development

- Fixed installation over and below deck
- > Swappable containerized systems
- Option to include fuel management systems



Addressable hydrogen market is expected to reach ~USD 20bn in 2030, corresponding to a ~20x increase relative to 2022

HEXAGON PURUS' TOTAL ADDRESSABLE HYDROGEN MARKET





In process to scale capacity to deliver on hydrogen growth plan



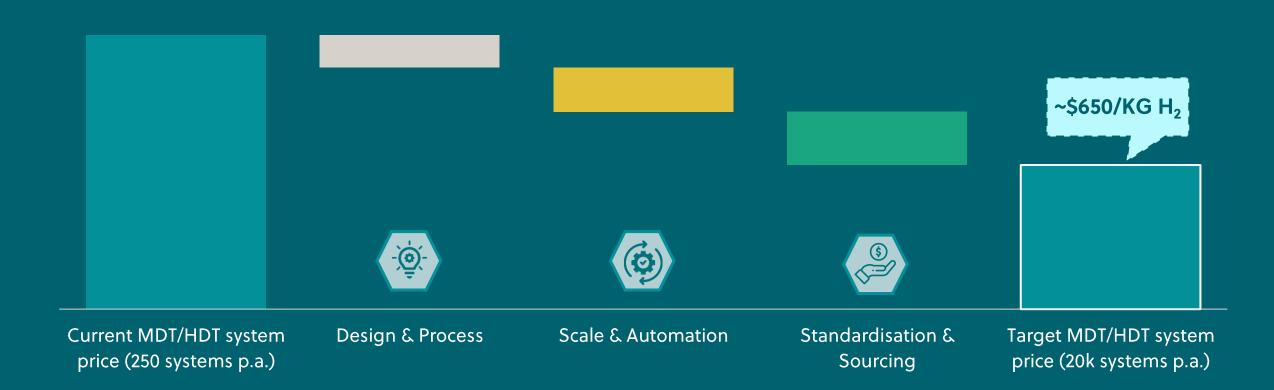






Hydrogen Type 4 cylinder system cost expected to decrease over time

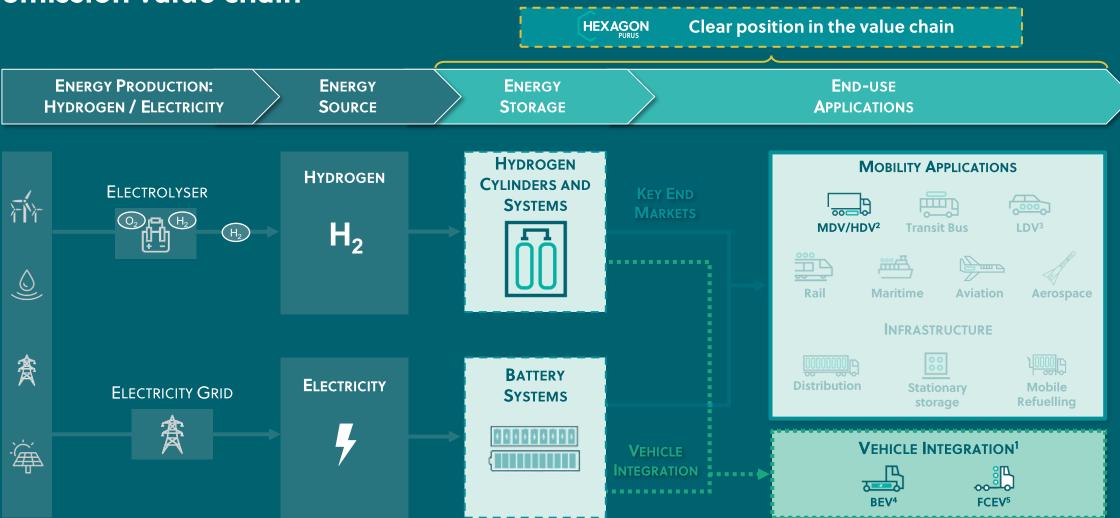
COST IMPROVEMENT LEVERS FOR MDV/HDV Type 4 CYLINDER SYSTEMS (700 BAR)







Hexagon Purus plays an important part in the renewable energy and zero emission value chain





~60 years' energy integration experience and in-house development

60+ years' expertise

in safe energy storage and integration expertise





~100k upfitted

CNG/BEV/FCEV trucks on the road show front runner mindset for powertrain transition







8/10 major US CV OEMs served

as vehicle integrator for CNG/BEV/FCEV















More than 1 billion miles

on-road record with CNG systems, and 1.3M+ miles with BEV



Innovation fleet

Part of the Daimler Innovation Fleet developing zero emission MDV and HDV vehicles



Leading CV battery pack

enabled by safe and robust battery pack system design





Experience and competence enabled efficient transition in becoming battery pack and powertrain integration specialist

Agility Fuel Solutions are created

2016 First battery system development commencing

2021 1M miles driven with Purus' battery systems

2022 1.3M miles driven with Purus' battery systems

16 years of cleantech experience

Successful journey to become a battery pack and powertrain integration specialist over the last few years

From 2016

2000-2010

















2000

enviroMECH is founded, offering vehicle, stationary and mobile hydrogen and natural gas fuel storage solutions



2010

Agility Fuel Systems created through merger between FAB and **EnviroMECH**



2014

Hexagon Composites and **Agility Fuel** Systems enter into



2017

Start of H₂ program with **Toyota Motors** North America (TMNA)

2018 Awarded the Daimler Trucks North America BEV Innovation Fleet

2020

Start of battery program with **TMNA**

2021

Class 7/8 BEV preproduction with HINO

2022

Opening of Kelowna for Gen 3 batteries and H₂ storage systems

2022

Significant commercial traction with leading CV truck OEMs: USD 1.8-2.2bn of potential revenue



The largest E-truck fleet in the US



Working with additional OEMs and tier 1s



Powertrain agnostic BEV vs FCEV battery business opportunity



CHASSIS

BATTERY PACK

ACCESSORY MODULE

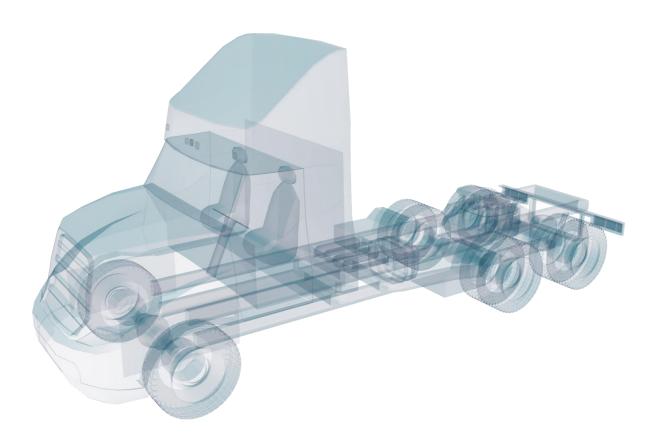
POWER ELECTRONICS

RD PARTY COMPONENTS

FUEL-CELL APPLICATIONS

PURUS DELIVERS BATTERY SYSTEMS AND FULL ELECTRIC VEHICLE INTEGRATION

STEP 1 - EMPTY CHASSIS FROM OEMS



Powered by Hexagon Purus

- Chassis arrives without powertrain
- ➤ Integration done @OEM or @HPUR
- Chassis is prepared for electrification
- Contracts either for battery/hydrogen systems only or complete vehicle integration



ASSIS BATTERY PACK

ACCESSORY MODULE

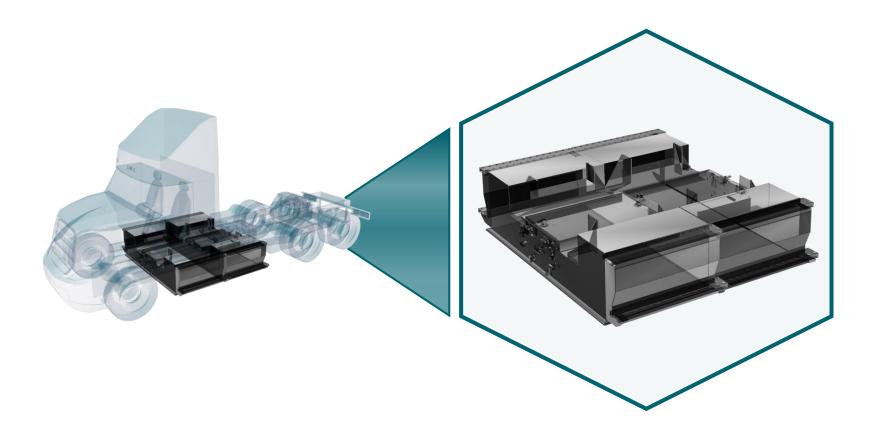
Power electronics

RD PARTY COMPONENTS

FUEL-CELL APPLICATIONS

Purus delivers battery systems and full electric vehicle integration

STEP 2 - INSTALLATION OF BATTERY PACK



BEV/FCEV PropackTM

- Up to 330kWh per pack
- Often 2 packs for Class 8 applications = 660kWh, smaller ~200kWh for Class 8 FCEV's
- ➤ Modular down to 70 kWh
- Installs in factory setting target 2minute takt time
- Best in class performance metrics
 - Continuous current
 - Gravimetric energy density
 - Thermal conductivity
 - kWh/wheelbase



SSIS BATTERY PAC

ACCESSORY MODULE

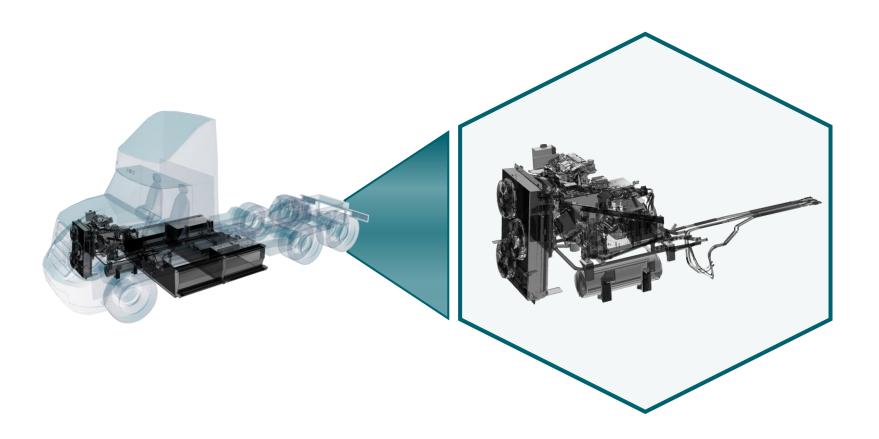
Power Electronics

RD PARTY COMPONENTS

FUEL-CELL APPLICATIONS

PURUS DELIVERS BATTERY SYSTEMS AND FULL ELECTRIC VEHICLE INTEGRATION

STEP 3 – INSTALLATION OF AUXILIARY MODULE



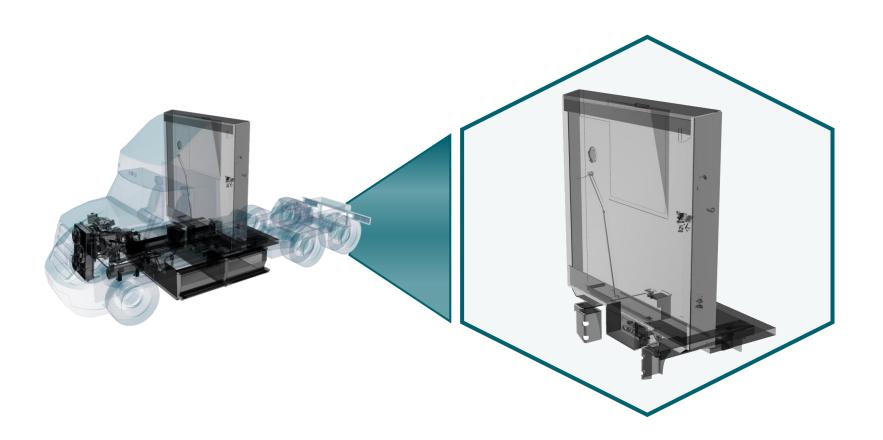
Accessory drive module

- Modular system installs in minutes
- Strong IP
- HVAC, Pumps, Compressors, DCDC
 everything that used to be
 powered by belts and pullies off of
 a diesel engine
- > Quiet and reliable performance
- Easy maintenance access



PURUS DELIVERS BATTERY SYSTEMS AND FULL ELECTRIC VEHICLE INTEGRATION

STEP 4 – INSTALLATION OF POWER ELECTRONICS



BEV eProCab™

- Depending on application, power electronics either between frame rails or in vertical system behind the cab
- Easy maintenance access
- Billions of miles of experience prove better durability above rail
- Integrated cameras, lights, grab handles, trailer connections
- ePTO options
- Charge port



BATTERY PACK

ACCESSORY MODULE

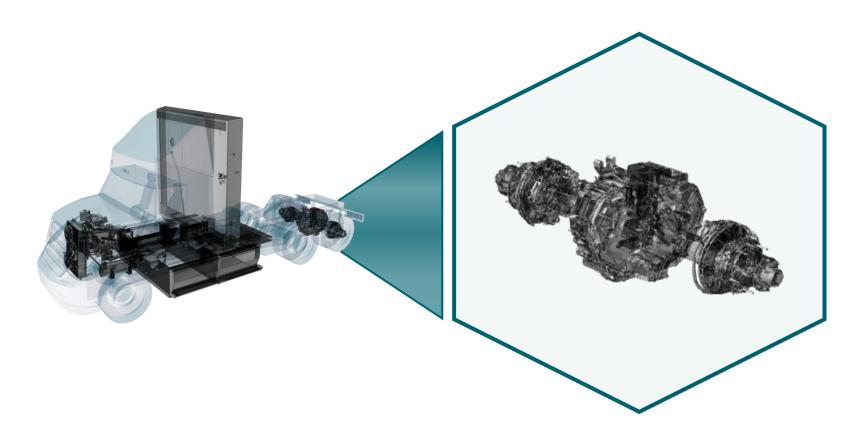
Power electronics

3RD PARTY COMPONENTS

FUEL-CELL APPLICATION:

PURUS DELIVERS BATTERY SYSTEMS AND FULL ELECTRIC VEHICLE INTEGRATION

STEP 5 – INSTALLATION OF 3RD PARTY COMPONENTS



eAxle or eMotor

- One or more eAxle(s) or eMotor(s) installed onto chassis
- Software development and validation completed by HPUR for numerous eAxle and eMotor applications
- eAxle inverter installed in eProCabTM
- Extremely high power and torque
- > Highly efficient
- Single speed or multi-speed gearbox options
- Lift axle and various suspension/brake options



SSIS BATTERY PAC

ACCESSORY MODULE

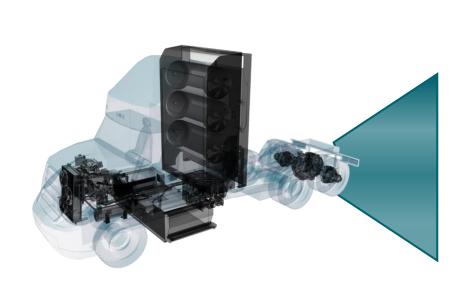
Power electronics

RD PARTY COMPONENTS

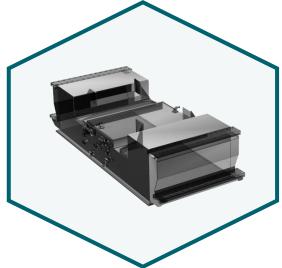
FUEL-CELL APPLICATIONS

PURUS DELIVERS BATTERY SYSTEMS AND FULL ELECTRIC VEHICLE INTEGRATION

STEP 6 - FUEL CELL ELECTRIC VEHICLE INTEGRATION







BEV to FCEV

- Build BEV with
 - 200 kWh ProPackTM
 - eAxle(s)
 - Auxiliary module
- ➤ Add H-ProCabTM Hydrogen Storage System integrated with power electronics
 - 73 kg of Hydrogen storage is equivalent to 1,200 kWh at the wheels
- Install fuel cell from 3rd party

2 Installation of Software

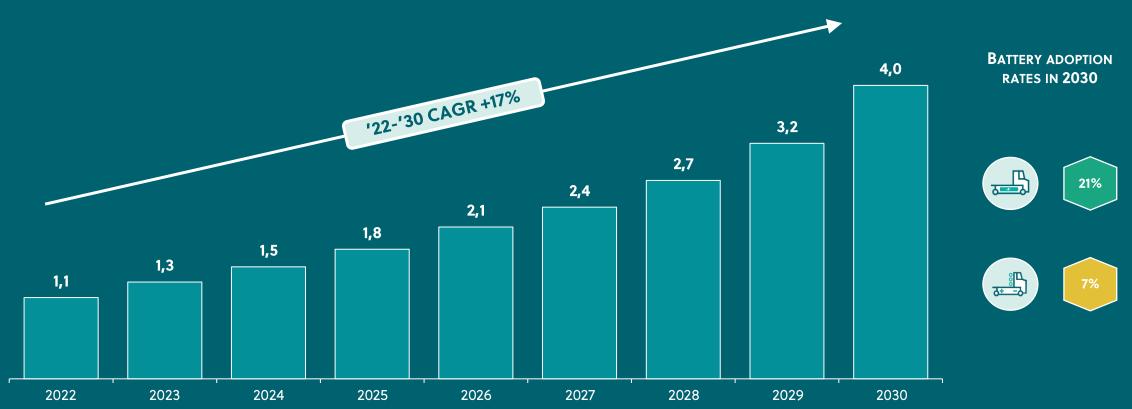
- Install HPUR thermal management system
- ➢ HPUR vehicle level software supervises BEV, H₂ system and fuel cell
- Result = FCEV (a.k.a. long-range BEV)



Addressable battery market expected to reach USD ~4bn by 2030, with BEV accounting for ~90% of 2030 revenue due to larger battery sizes

HEXAGON PURUS' TOTAL ADDRESSABLE BATTERY MARKET IN NORTH AMERICA

USDbn





Overview of the Kelowna manufacturing facility





Please click **here** to see a video of the facility



Strategically positioned manufacturing sites in close proximity to customers

MULTIPLE LOCAL MICRO-MANUFACTURING SITES



- Production in close proximity to customers
- Manufacturing sites solely specialised in producing various products
- Shorter time-to-market for new products
- Ability to lever local competence

FEW GLOBAL GIGA-MANUFACTURING SITES



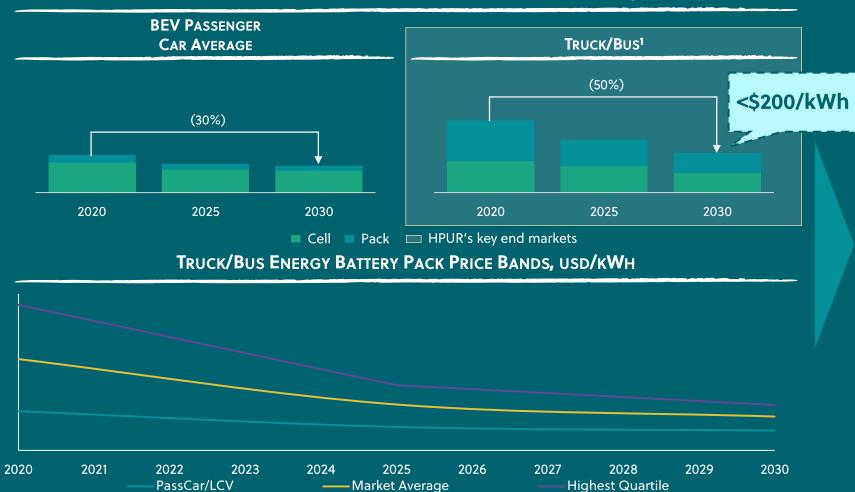
- Increased economies of scale in production
- Collaboration between product teams



Commercial vehicle (Truck/Bus) battery pack cost expected to decrease over time





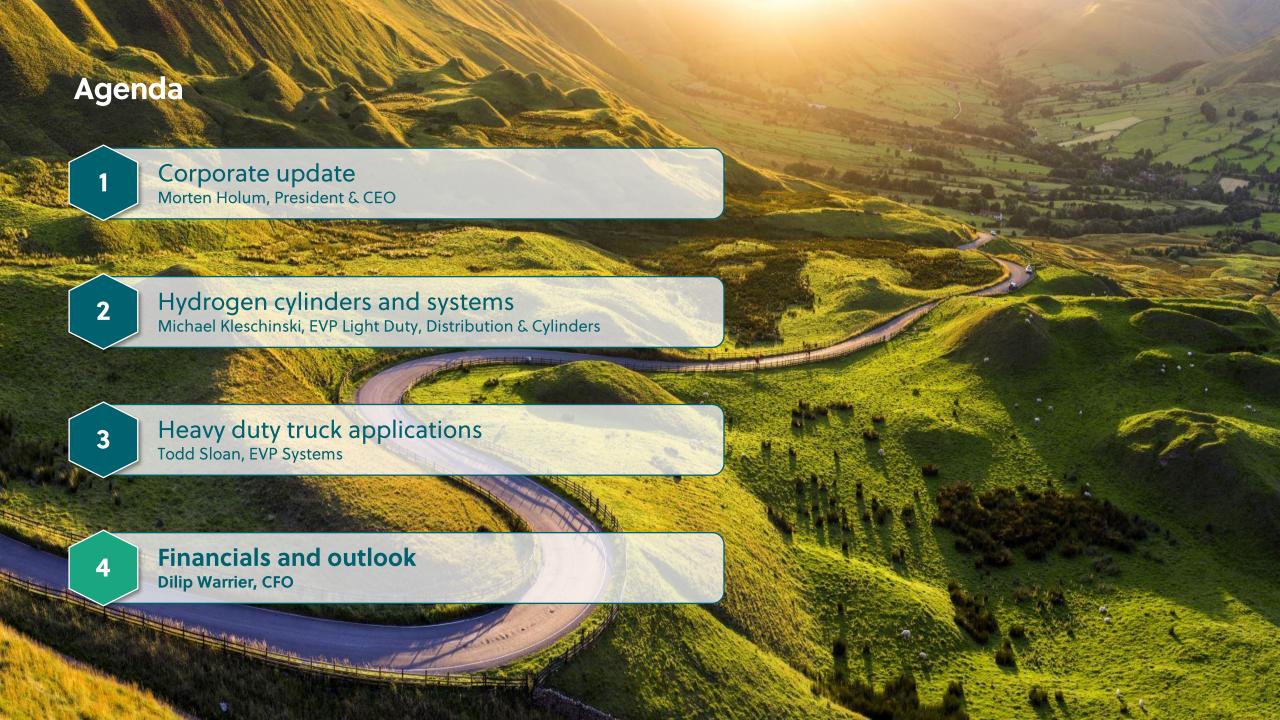






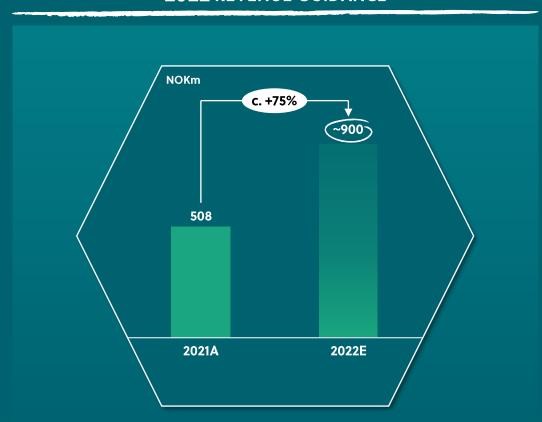




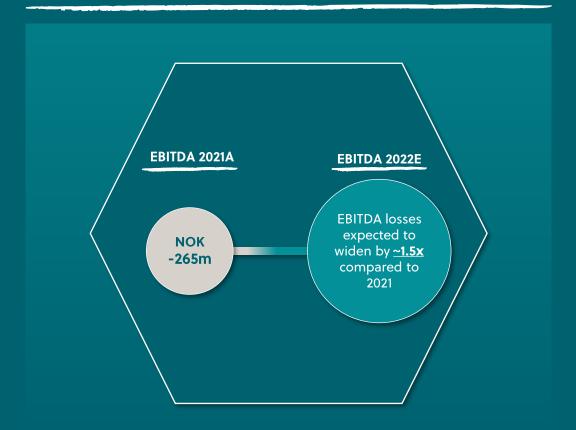


Reiterating 2022 revenue and EBITDA guidance

2022 REVENUE GUIDANCE



2022 EBITDA GUIDANCE





Capital deployment priorities



Grow revenue

Will require substantial working capital

Revenue target (NOK)

4-5 billion in 2025



Scale up

Scaling organization to support production, engineering, infrastructure, and backbone functions

450 FTEs

(as per Q1 2022)



Capacity

Expansion initiatives related to production capacity in order to meet customer demand

Revenue Capacity (NOK)

5.0+ billion in 2025



Product and process development

Support booked business and continue innovation to lower cost, lighter weight and more efficient energy storage solutions

Target cost down¹

<USD 200

HD Battery Pack USD/kWh ~USD 650

Cylinder System
USD/H₂kg



Profitability improvements will be driven by manufacturing scale-up and operating leverage



40% / 60%

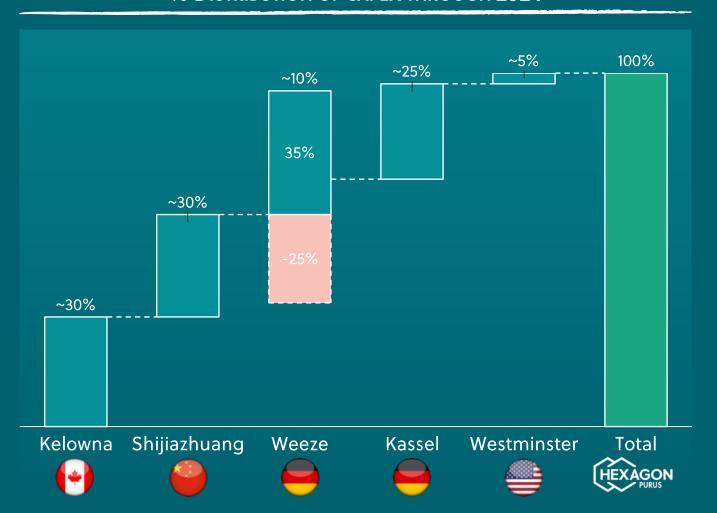
of profitability improvement from cost reduction / operating leverage





NOK 750-800m net CAPEX required through 2024 to achieve capacity for 2025 revenue target

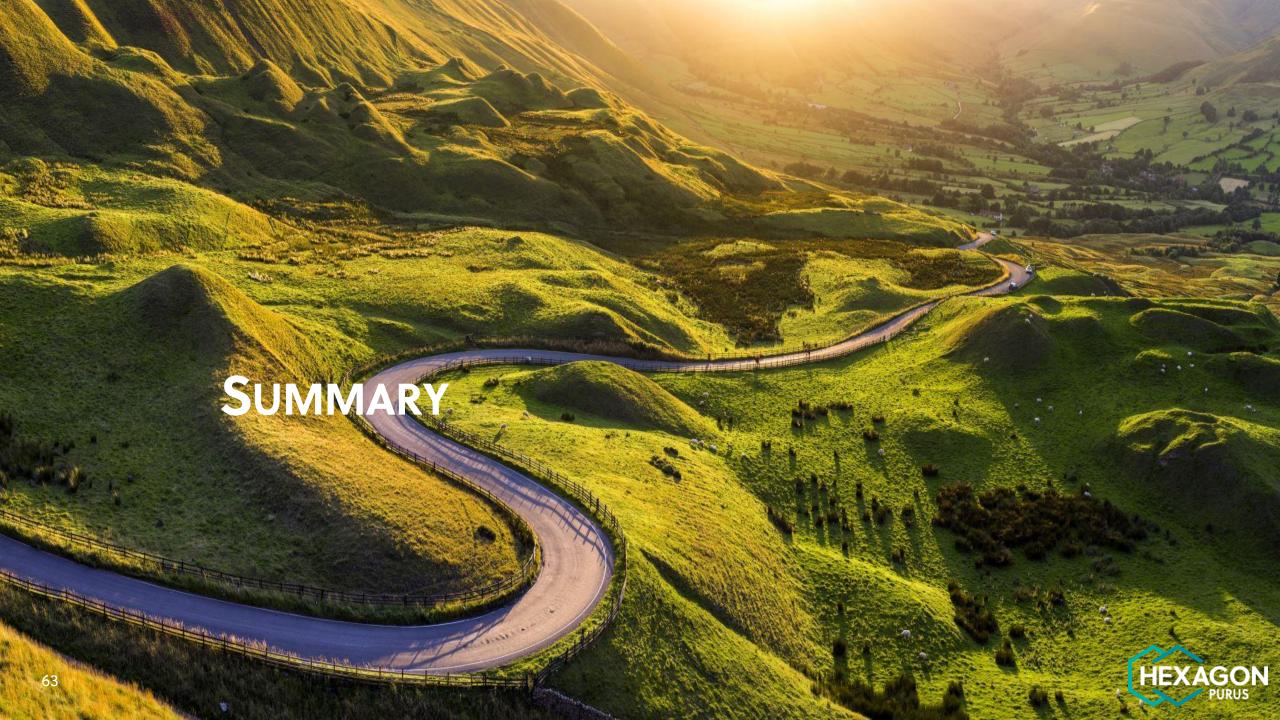
% DISTRIBUTION OF CAPEX THROUGH 2024



CAPEX DETAILS

- Assumes Weeze facility capacity expansion partially funded by external debt
- Excludes:
 - Expected external debt funding in Weeze (~NOK 200 million)
 - Capitalized R&D (NOK 70m)
 - Expected acquisition consideration for Wystrach and Cryoshelter (NOK 180m)





Key summary highlights

- Large and rapidly growing addressable market in the zero-emission mobility space
- Leading provider of hydrogen and battery electric technology for zero-emission mobility, including components, systems and vehicle integration
- Extensive track-record in delivering solutions to a wide spectrum of fuel cell electric and battery electric applications
- Global and scalable manufacturing footprint with presence in key regions, and a capable organisation with skill-set to deliver transformational growth
- Early mover with unique market position validated by major customer wins and recurring business
- Strong momentum on several fronts, on-track to reach revenue ambition of NOK 4-5bn in 2025



