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Today's presenters



Morten Holum
President and CEO

- CEO of Hexagon Purus since the carve-out 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

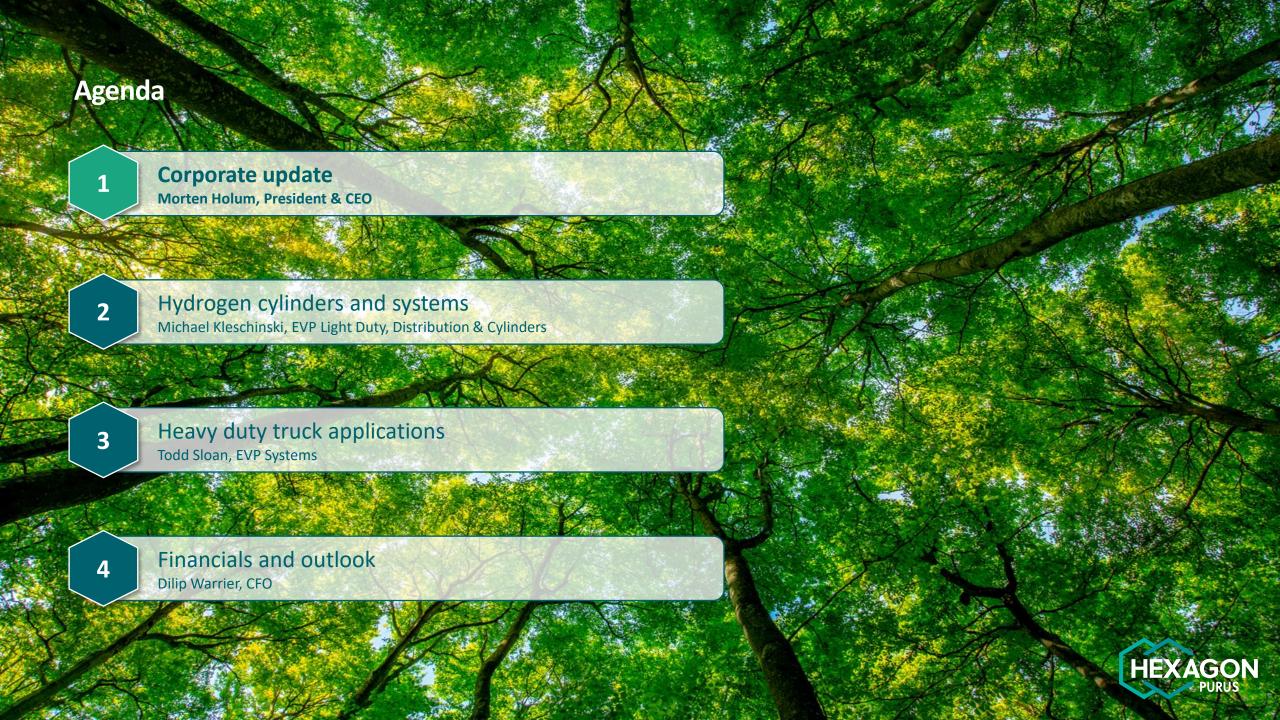
- Joined Hexagon Composites as EVP in 2016 before moving to Hexagon Purus in 2020 as part of the carve-out
- Previously a key management member within the production engineering team at Hexagon Composites

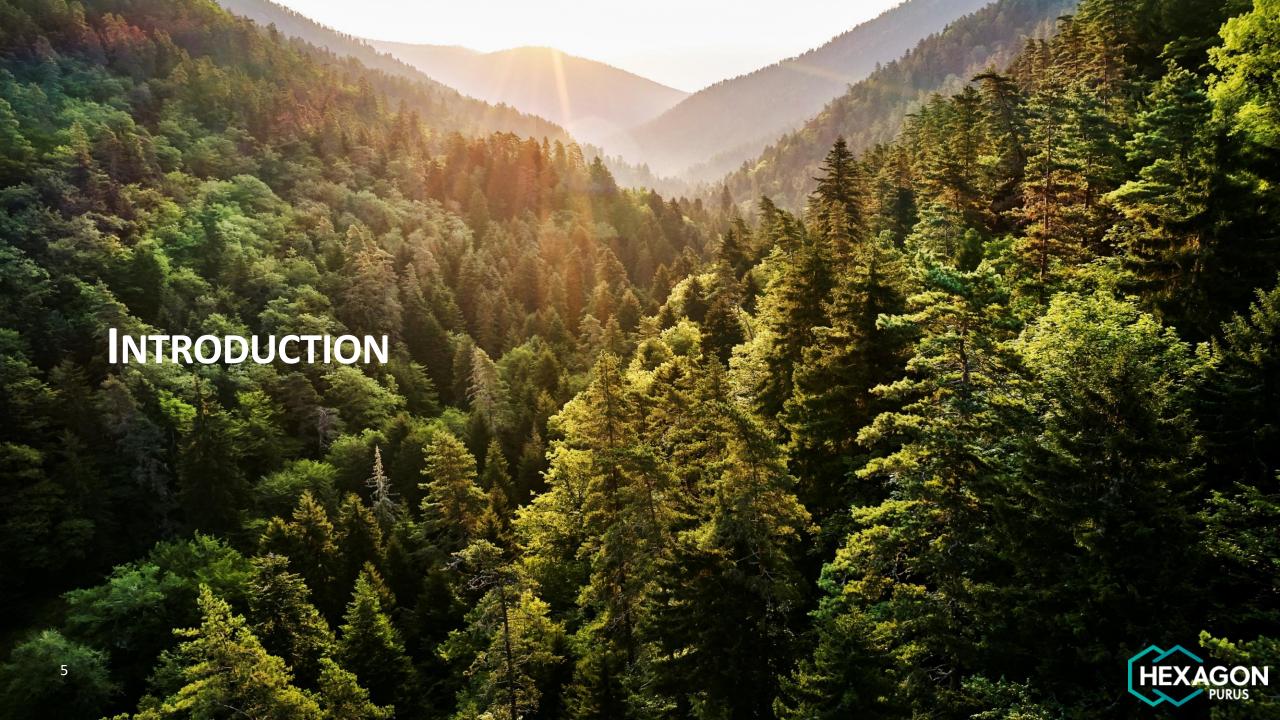


Todd Sloan EVP Systems

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







The green shift has crossed the tipping point with several decades of growth ahead driven by a wave of megatrends...



Improve the quality of life and reduce pollution in cities and local communities



Decarbonize industry and mobility applications to limit global warming



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

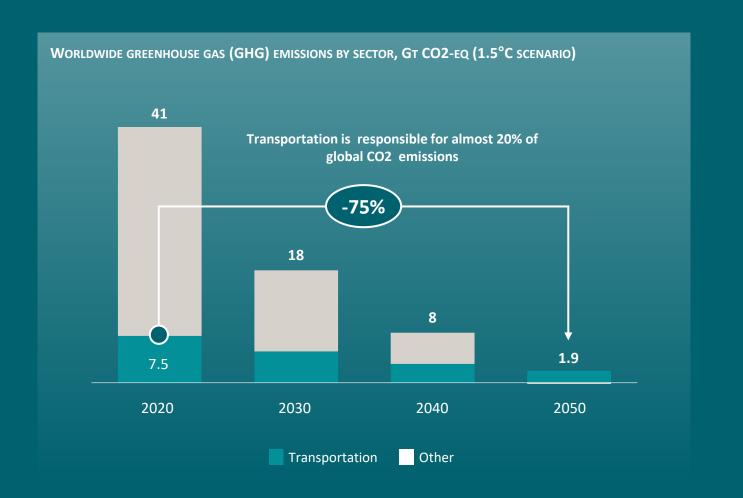


Enables diversification of energy gases through local production reducing dependence on unreliable suppliers of carbon-based energy



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-towheel emissions Zero-emission supply chains & **production** to reduce lifecycle emissions Renewable power (for electricity, H₂ and fuels) to reduce well-to-tank emissions



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

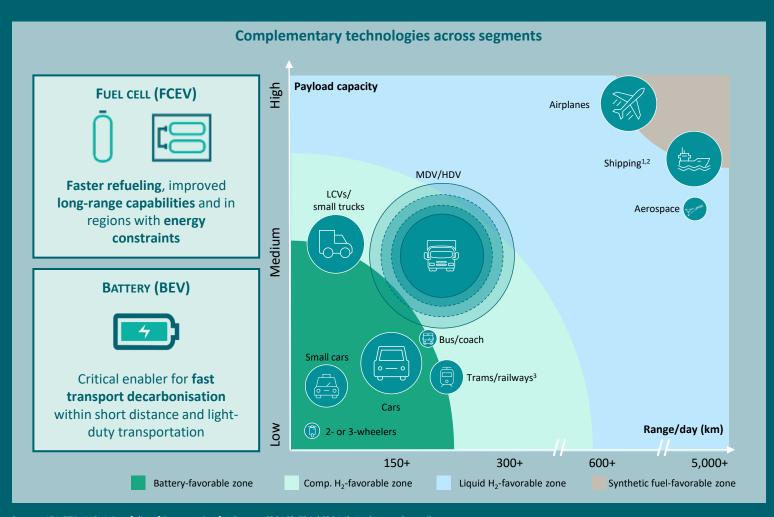


HYDROGEN DISTRIBUTION MODULES, STATIONARY STORAGE AND MOBILE **REFUELLING STATIONS**





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 zeroemission transportation

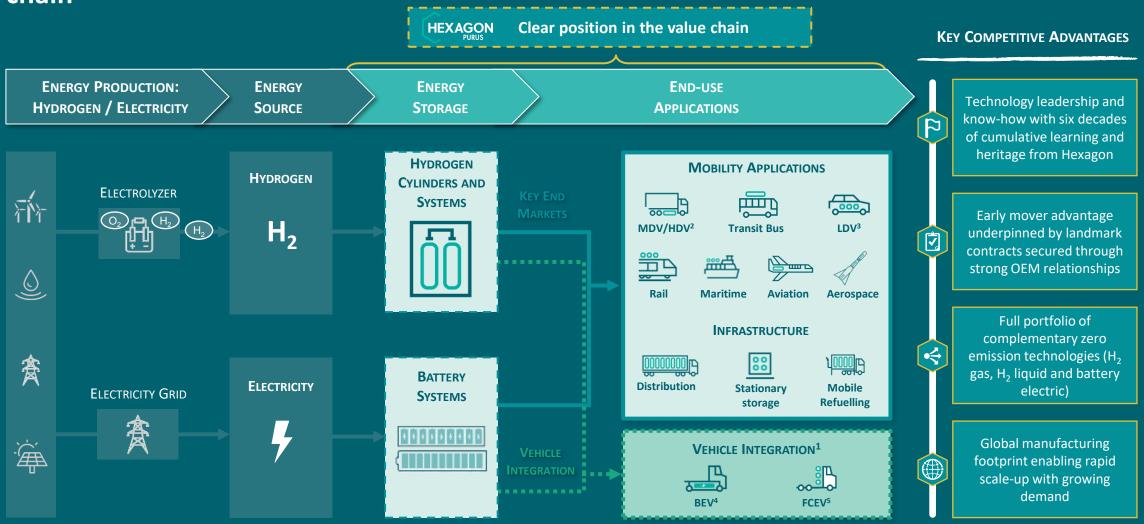


Highly complementary infrastructure



segment are expected to use liquid or compressed hydrogen; 3) Excluding rail on electrified tracks

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 zeroemission 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

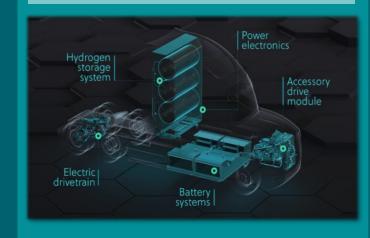
High-performance, modular and lightweight battery systems for MDV/HDV



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...

2020

separately listed on

Euronext Growth



... of system integration know-how



Lincoln Composites started with filamentwound rocket motor cases for NASA



Acquired Lincoln Composites, a supplier of high-pressure 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



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



2006 Awarded development contract for supply of hydrogen cylinders to Mercedes Benz' B-series FCEV pilot



2016 First battery development **HEXAGON** Wystrach carved out and

Acquired Wystrach, a leading European provider of hydrogen systems

Cryoshelter

2022 Invested in liquid H₂ tank producer Cryoshelter, to further accelerate FCEV transition

Carve-out of Hexagon zero-emission business



2021

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

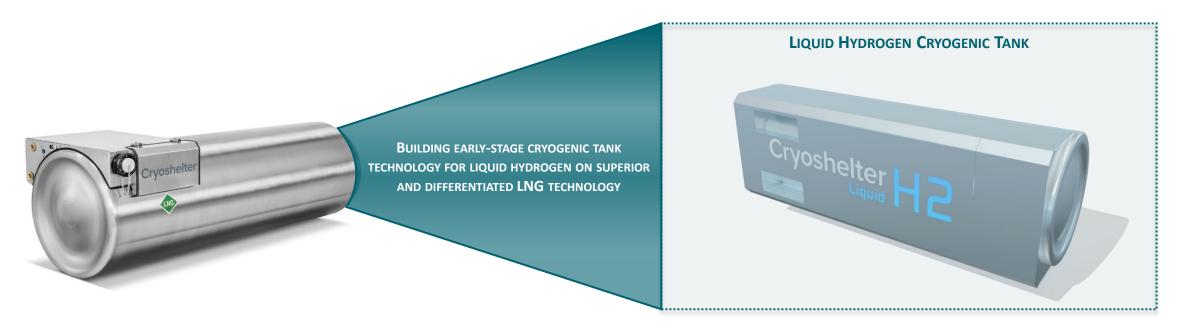


2021 1.000.000+ miles onroad with Hexagon Purus' battery systems

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









Hydrogen transit buses









Heavy-duty applications





Hydrogen and battery systems



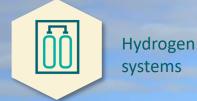






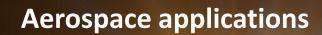
Hydrogen storage systems for maritime applications









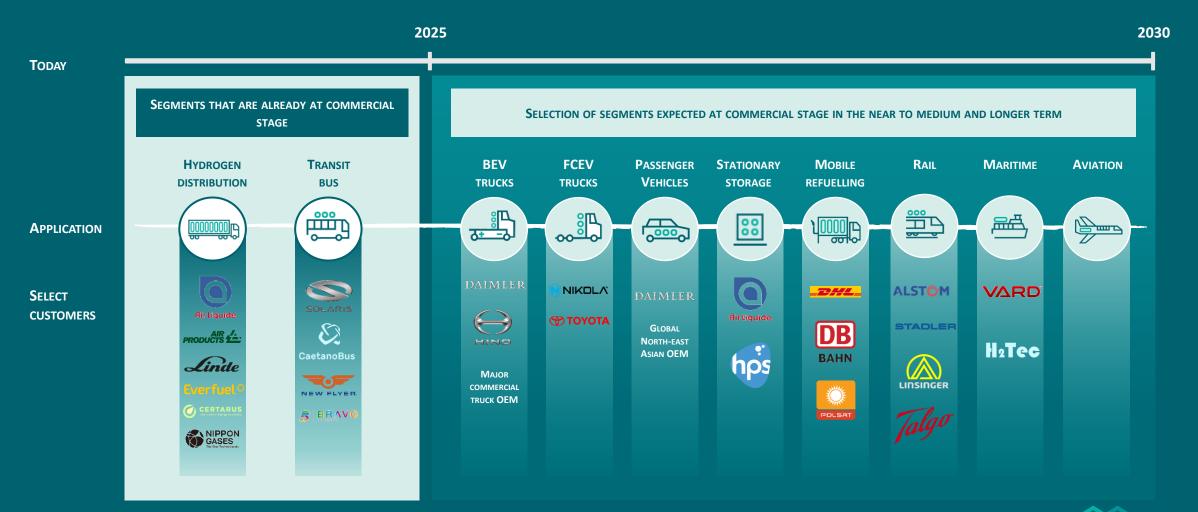




Hydrogen cylinders



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	Key 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 integration
Operations			 Expansion of current manufacturing footprint, gearing up for mass-production at scale
Aftermarket service			 Roadmap to develop aftermarket and repair service offering as market and installed base grows
	Improving Well-positioned	Leading	



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

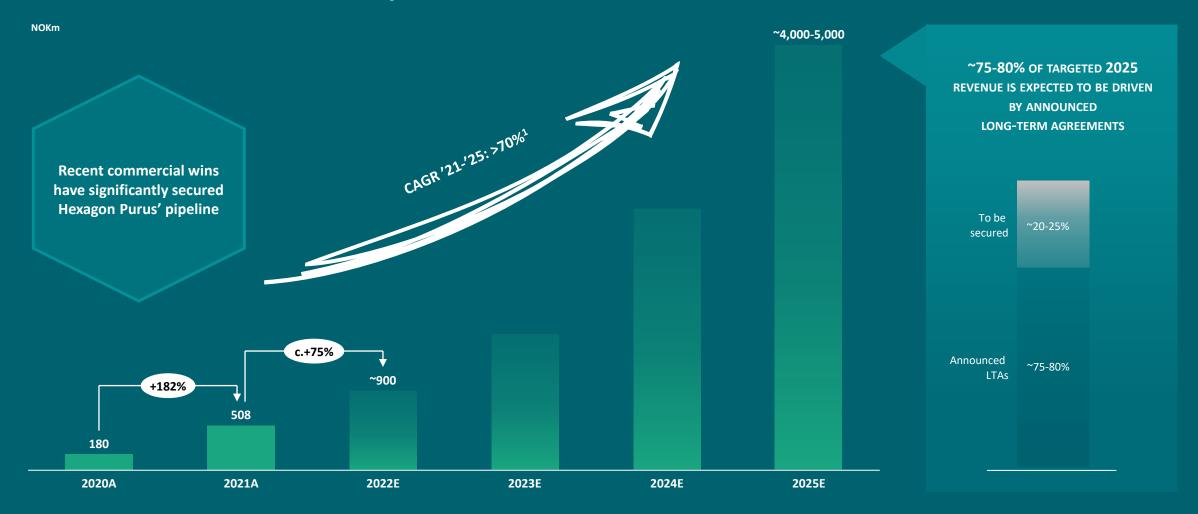








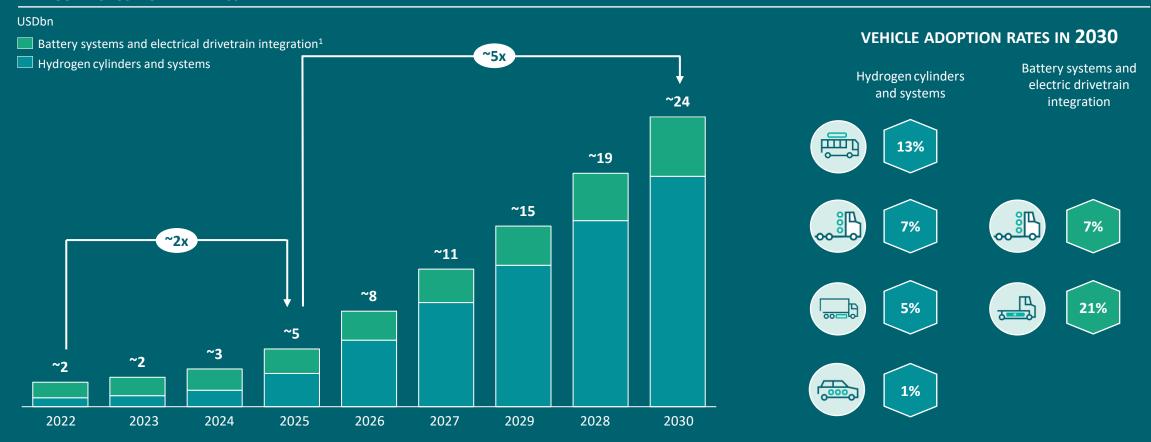
Competitive position in a growing market has led to significant top line growth, expected to continue into 2025 and beyond





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

HEXAGON PURUS' TOTAL ADDRESSABLE MARKET

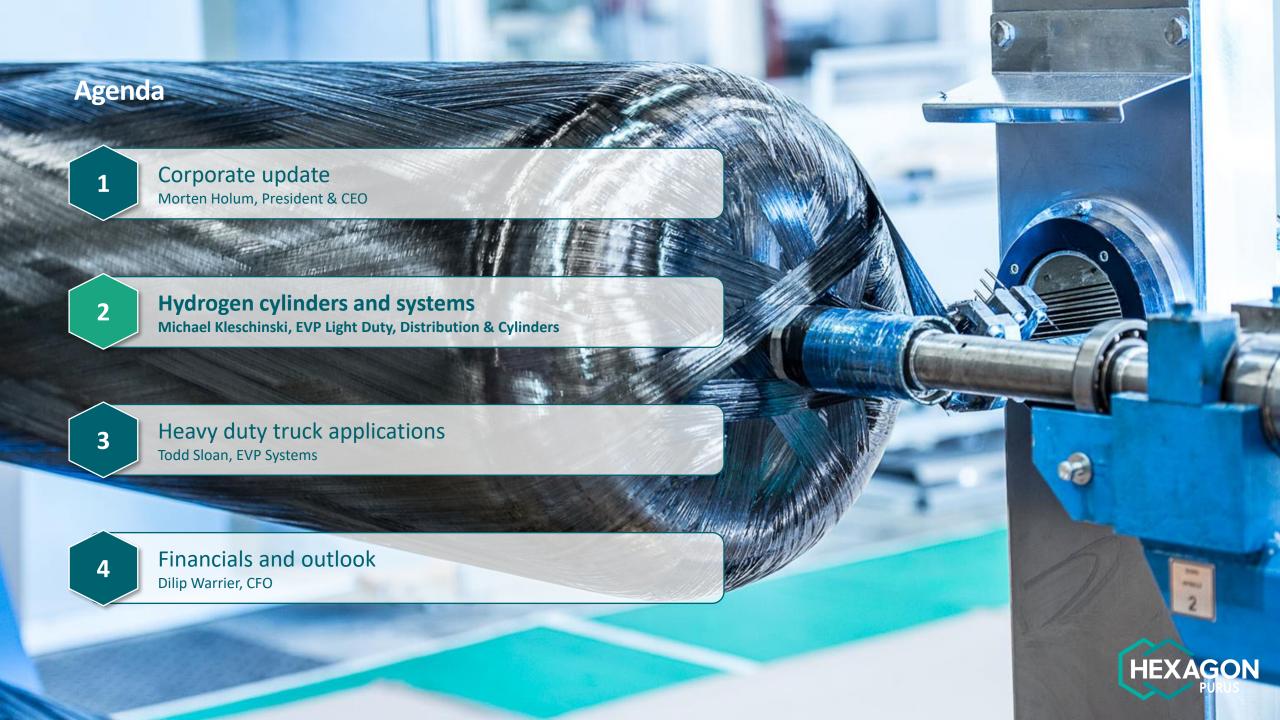




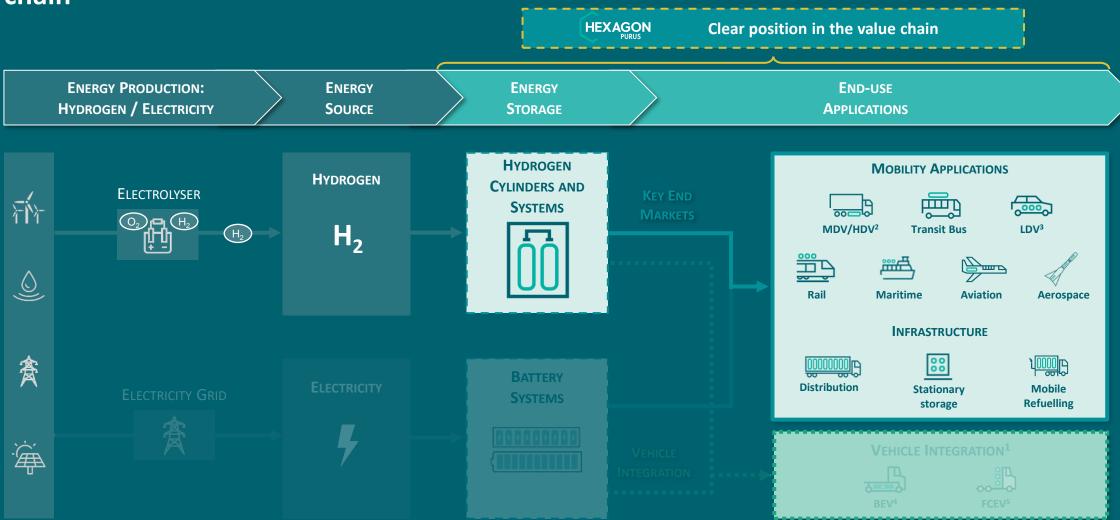
Entering next phase of industrial scale-up







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

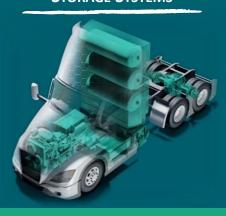
INFRASTRUCTURE







MOBILITY ENERGY STORAGE SYSTEMS



A RANGE OF END-USE APPLICATIONS























CYLINDERS

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



LOWEST TCO



YLINDERS

INFRA. - DISTRIBUTION

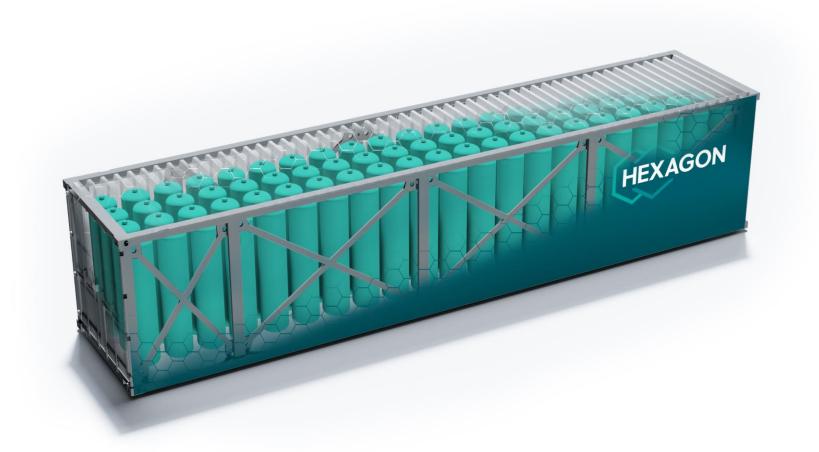
INFRA. — STORAGE

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 <u>500</u> <u>bar pressure</u> designed and approved for transport applications

Gas control

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



CYLINDERS

INFRA. — DISTRIBUTION

INFRA. – STORAGE

INFRA. – REFUELING

MOBILITY - ON ROAL

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



YLINDERS

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 350 bar pressure

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



CYLINDERS

INFRA. — DISTRIBUTION

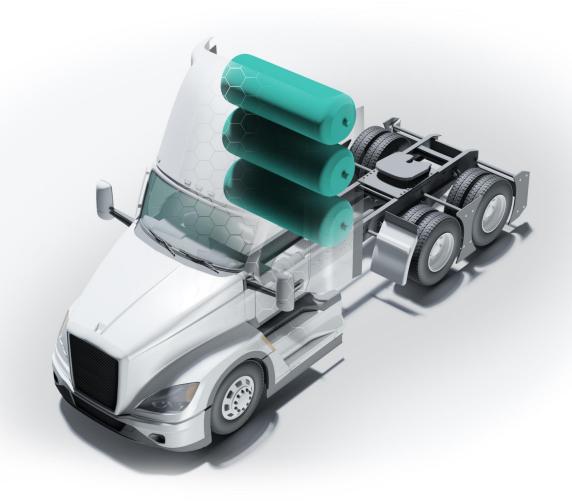
INFRA. — STORAGE

NERA. - REFUELING

MOBILITY - ON ROAD

MOBILITY — OFF 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

INERA - REFLIELING

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



YLINDERS

INFRA. — DISTRIBUTION

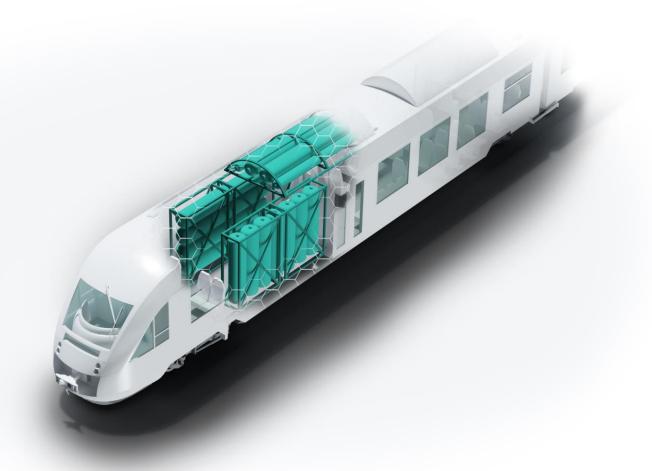
INFRA. – STORAGE

INERA. – 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



YLINDERS

INFRA. — DISTRIBUTION

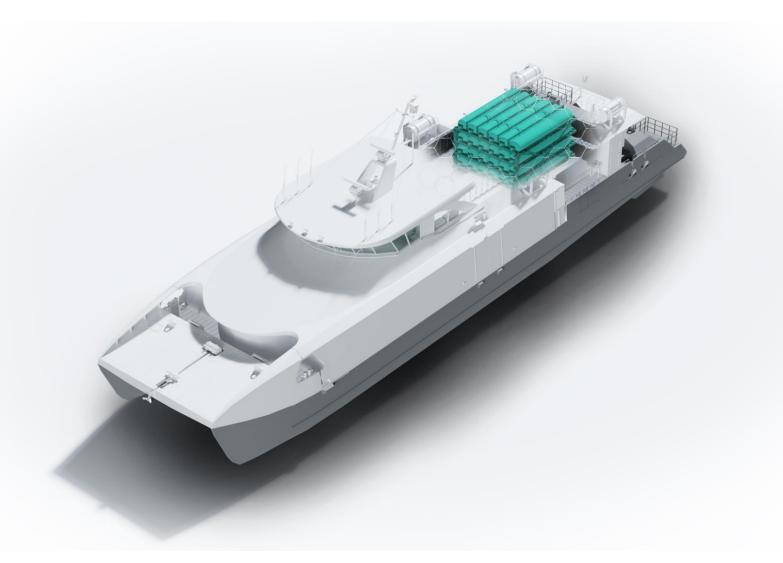
INFRA. – STORAGE

INERA. – REFUELING

MOBILITY - ON ROAD

MOBILITY - OFF ROAD

HEXAGON PURUS' MARITIME APPLICATIONS



Type 4 cylinders

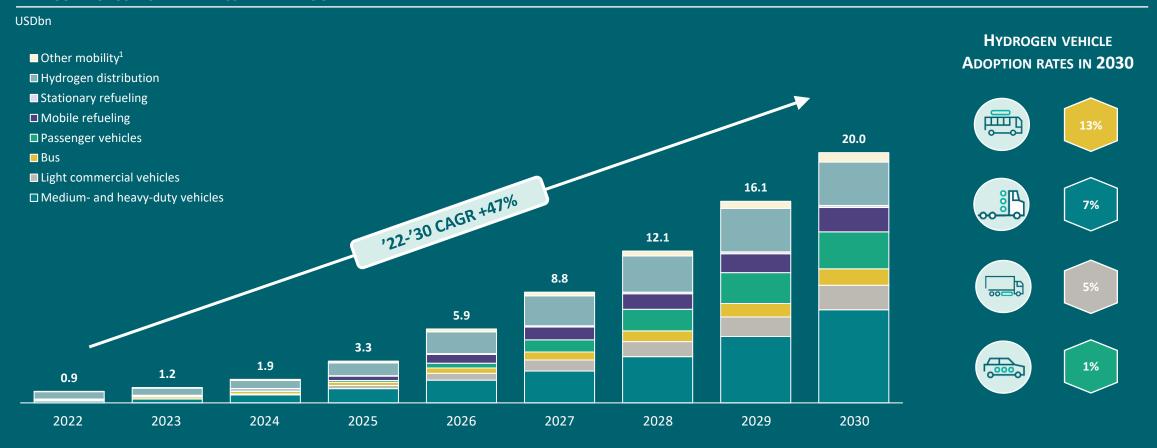
- ➤ 250-380 bar pressure cylinders
- Up to 32 kg hydrogen per single cylinder
- Compliant with US Coast Guard, with additional standards under development

- 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





Revenue capacity p.a. (EURm)

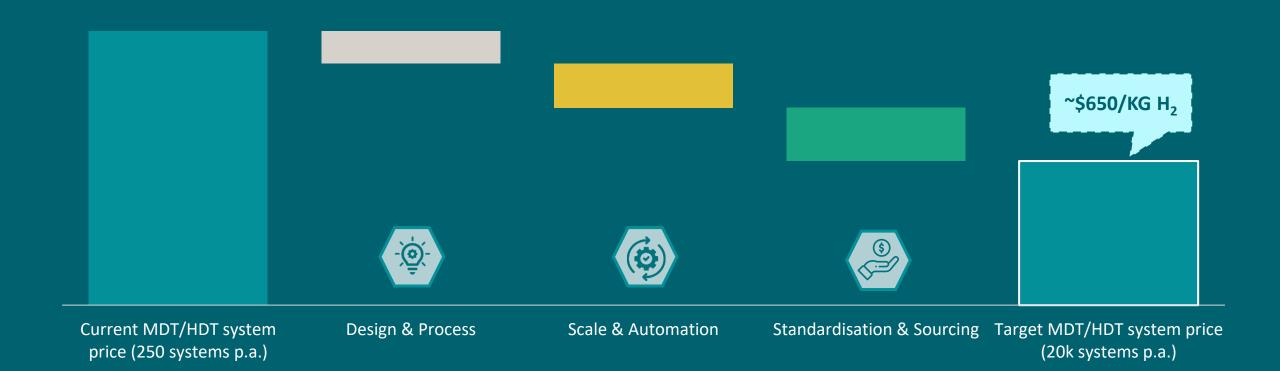






Hydrogen Type 4 cylinder system cost expected to decrease over time

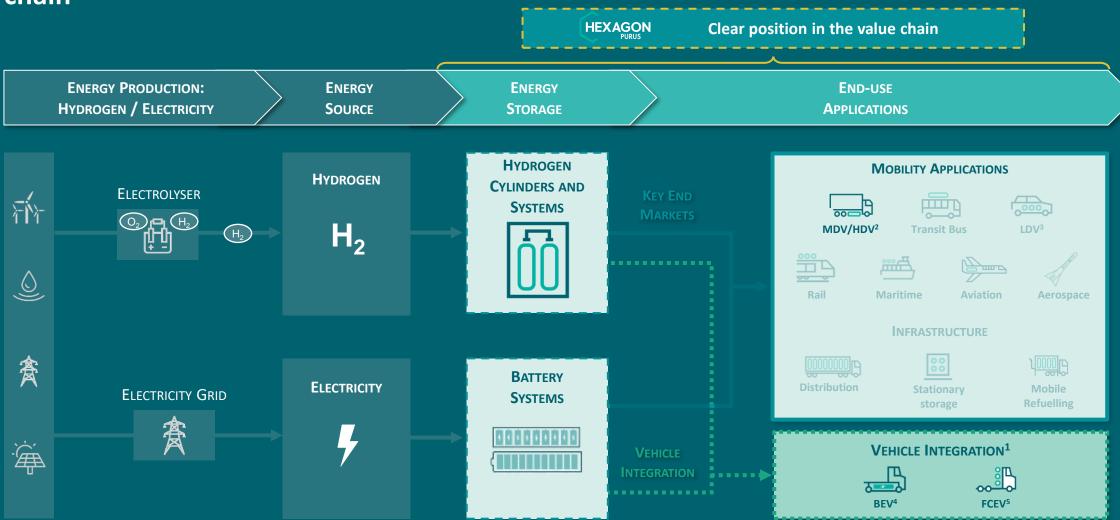
COST IMPROVEMENT LEVERS FOR MDV/HDV Type 4 CYLINDER SYSTEMS (700 BAR)







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









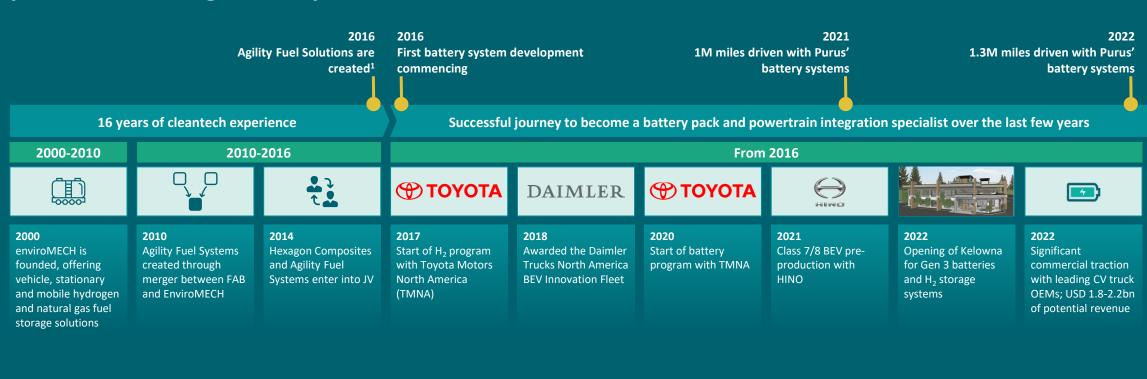








Experience and competence enabled efficient transition in becoming battery pack and powertrain integration specialist









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 PACE

ACCESSORY MODULE

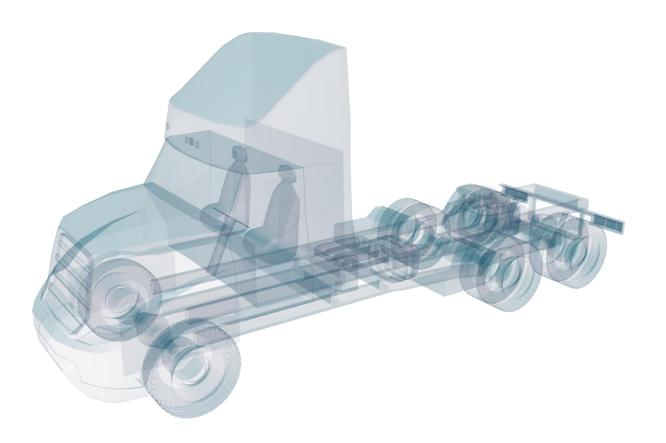
Power electronics

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

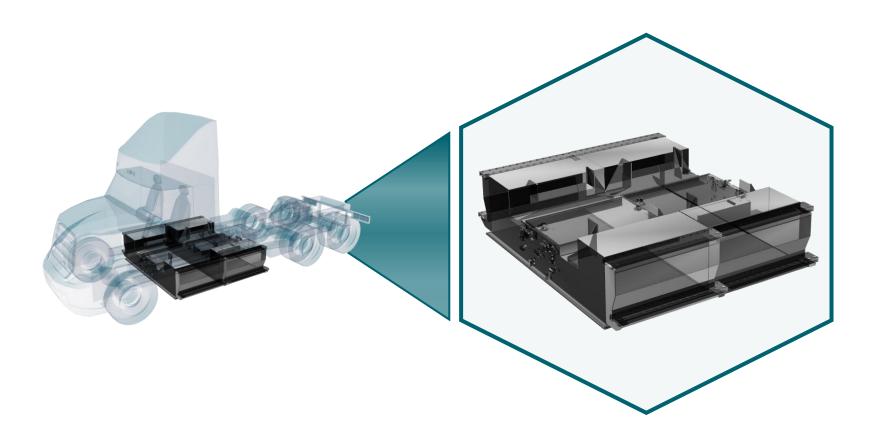
POWER ELECTRONICS

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 330ckWh per pack
- Often 2 packs for Class 8 applications = 660ckWh, smaller ~200ckWh 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



ASSIS BATTERY PAC

ACCESSORY MODULE

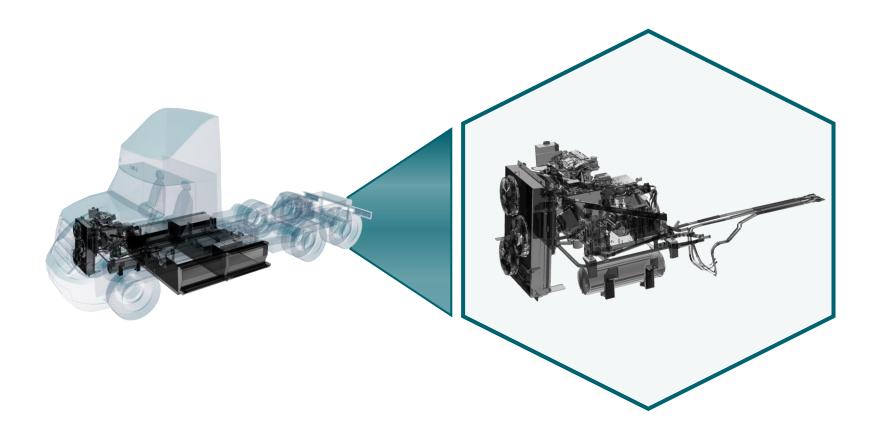
POWER FLECTRONICS

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



ASSIS BATTERY PAG

ACCESSORY MODULE

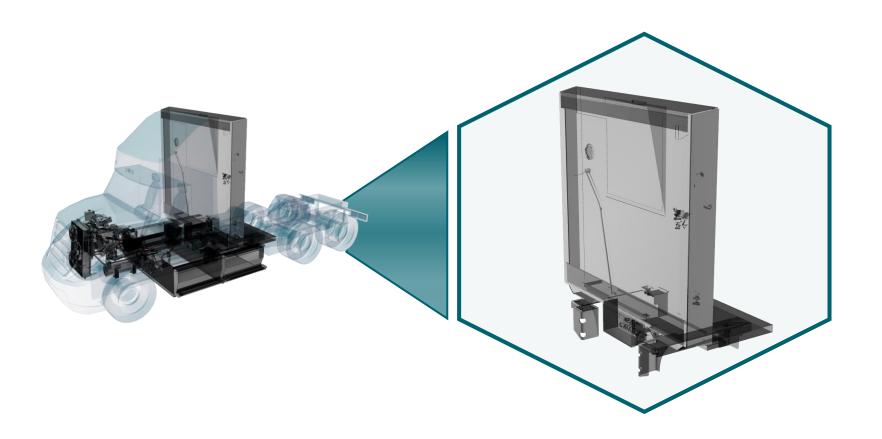
POWER ELECTRONICS

RD PARTY COMPONENT

FUEL-CELL APPLICATIONS

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



ASSIS BATTERY PAG

ACCESSORY MODULE

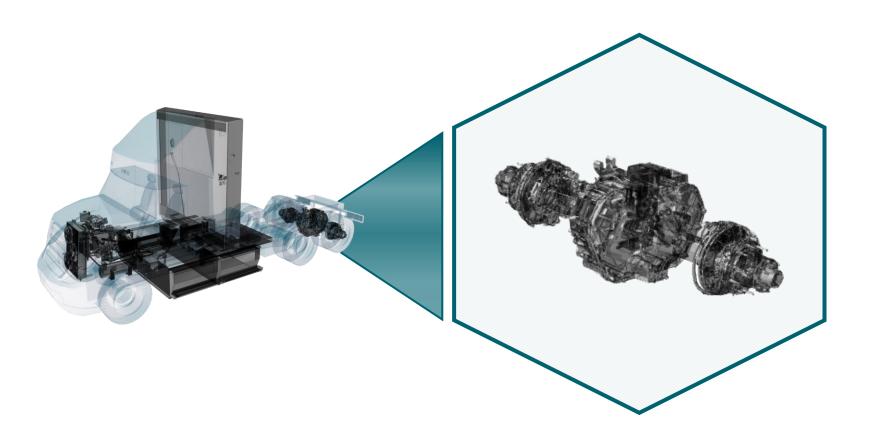
POWER ELECTRONICS

3RD PARTY COMPONENTS

FUEL-CELL APPLICATIONS

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 eProCab™
- Extremely high power and torque
- Highly efficient
- Single speed or multi-speed gearbox options
- Lift axle and various suspension/brake options



ASSIS BATTERY PAC

ACCESSORY MODULE

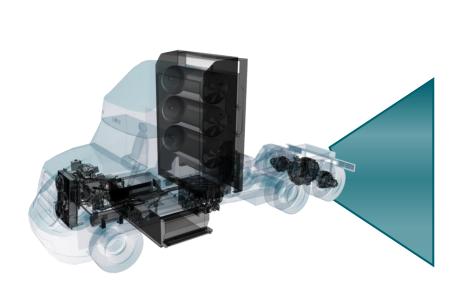
POWER ELECTRONICS

PARTY COMPONENTS

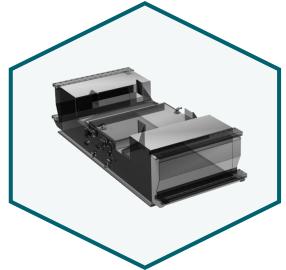
FUEL-CELL APPLICATIONS

PURUS DELIVERS BATTERY SYSTEMS AND FULL ELECTRIC VEHICLE INTEGRATION

STEP 6 – FUEL CELL ELECTRIC VEHICLE INTEGRATION







1 BEV to FCEV

- Build BEV with
 - 200 kWh ProPack™
 - 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 BATTERY ADOPTION RATES 4.0 **IN 2030** '22-'30 CAGR +17% 3.2 2.7 21% 2.4 2.1 1.8 1.5 1.3 1.1 2022 2023 2024 2025 2026 2027 2028 2029 2030



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

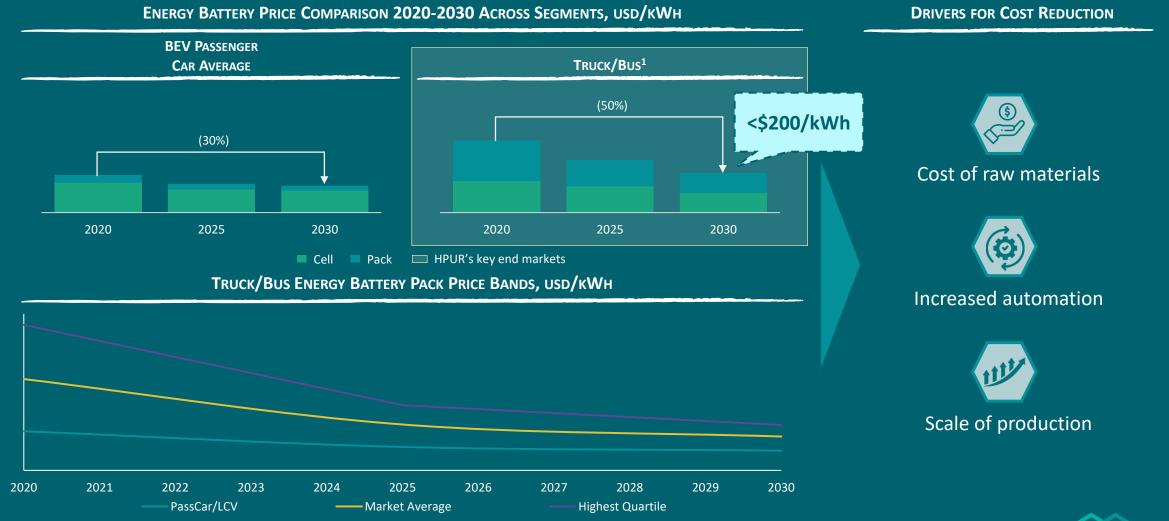
FEW GLOBAL GIGA-MANUFACTURING SITES



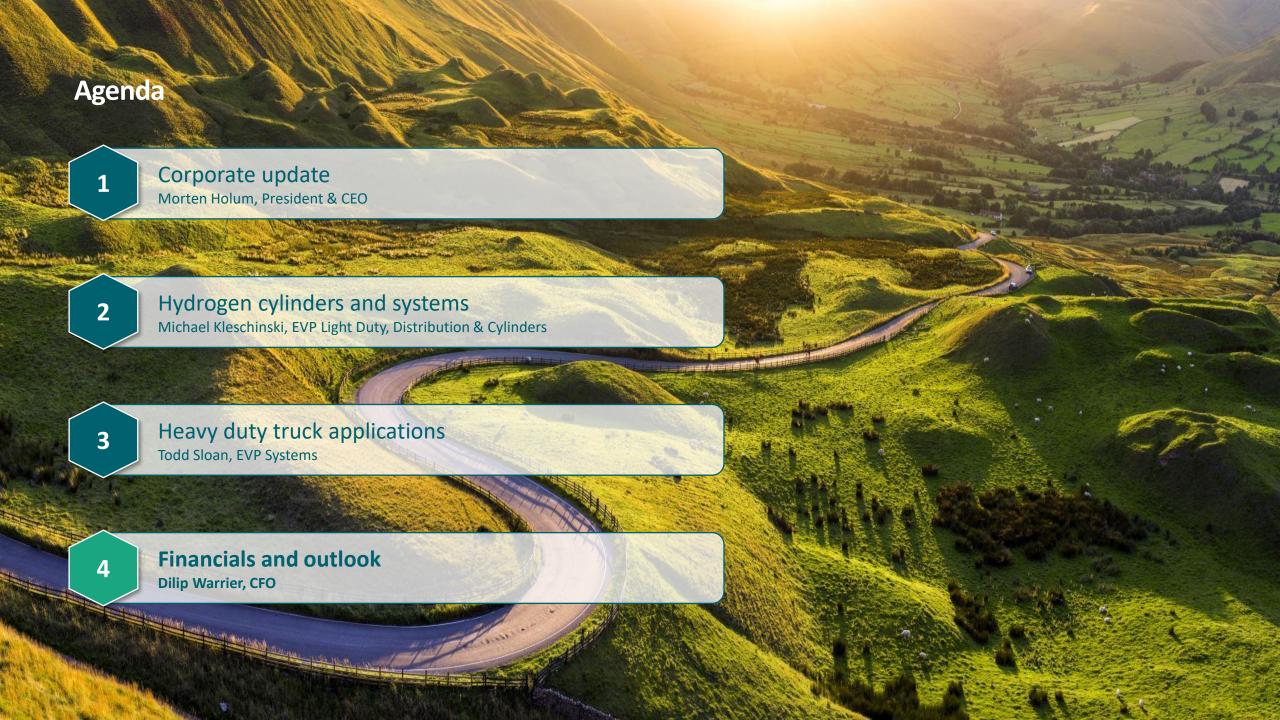
- Increased economies of scale in production
- Collaboration between product teams



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

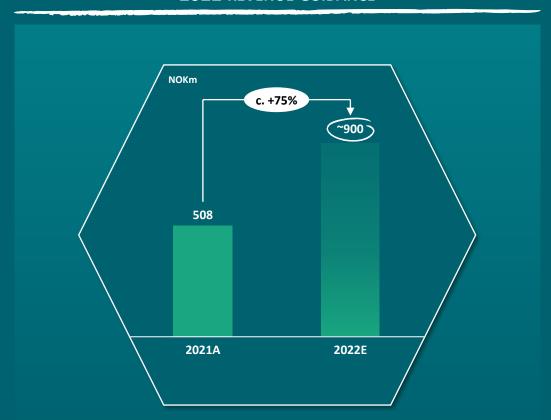




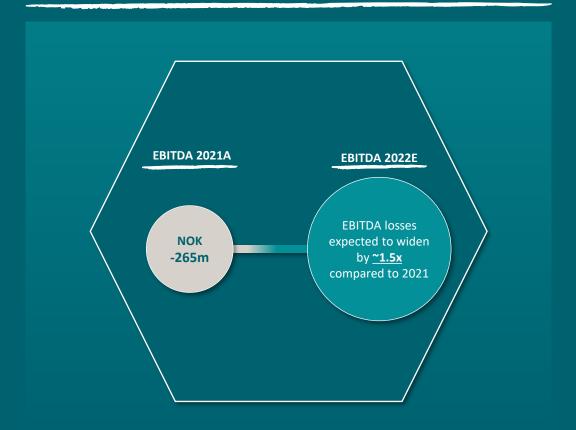


Reiterating 2022 revenue and EBITDA guidance

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%

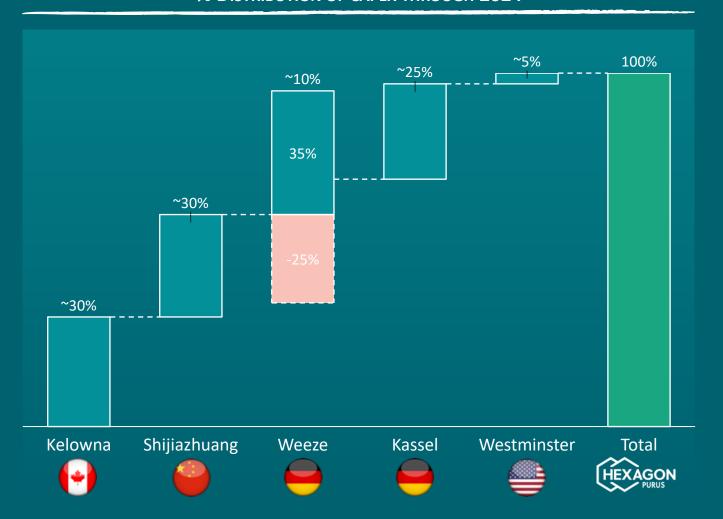
of profitability improvement from cost reduction / operating leverage





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



