

CHRIS POYNTER, DIVISION PRESIDENT System Drives



ABB Motion Capital Markets Day Helsinki, Finland

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This presentation includes forward-looking information and statements including statements concerning the outlook for our businesses. These statements are based on current expectations, estimates and projections about the factors that may affect our future performance, including global economic conditions, and the economic conditions of the regions and industries that are major markets for ABB Ltd. These expectations, estimates and projections are generally identifiable by statements containing words such as "expects," "believes," "estimates," "targets," "plans," "outlook," "on track," "framework", "ambition" or similar expressions.

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- Business risks associated with the volatile global economic environment and political conditions
- Costs associated with compliance activities
- Market acceptance of new products and services
- Changes in governmental regulations and currency exchange rates
- General market conditions, and
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Our business at a glance

Our market



#1 globally

Our business

\$750 – 1,250 mn 2021 revenues

employees globally

Our strategic mandate: profitable growth



1. Omdia market research reports including MV Drives, Premium LV AC Drives and DC Drives (2021, based on 2020 data)



Where we play



Process industries Running critical process at best performance



Infrastructure and Utility Saving energy



Transportation

Delivering high performance and reliability in demanding conditions



Renewable energy Reducing cost of sustainable energy



Performance and reliability in mission critical applications

Pioneering technology leader

Power

Precision control

Reliability



Growing from a strong foundation

Proven performance



Good market outlook



Focused growth plans

01 Grow market share in Americas

Sales and portfolio development for a key market

02 Develop integrator and OEM channels

New portfolio and services for integrators and OEMs to speed growth, improve mix and minimize risk

03 Capitalize on energy transition

Continue to shift portfolio to energy efficiency, renewables and decarbonization

Decarbonizing industry System Drives' story beyond energy efficiency



Hydrogen economy Enabler for low-carbon society

Production

Powering electrolyzers for H2 production

Infrastructure

Compression powertrains for storage and distribution

Downstream

Connecting fuel cells to electrical grids





Turbine replacement Process industries

Electric drivetrains instead of gas and steam turbines

- Greenfield investment accelerating
- Brownfield opportunity developing Driven by ABB high-power motors and drives



Industrial heating Pulp & Paper

Replacing 9 MW oil heater for drying pulp with an electric system Powered by ABB thyristor power controllers





Sustainable ports Fully electric vessels

Three electric harbor tugs serving LNG export port

Supported by ABB shore-to-ship solutions and propulsion drives



Eliminating over 5,000 tons of CO₂ per year compared to dieselpowered alternatives





The trusted market leader

Great market outlook

Driving profitable growth





edgar keller, division president **Traction**



ABB Motion Capital Markets Day Helsinki, Finland

Single components or complete traction packages for rail & e-bus



Superior travel comfort with smooth acceleration

Light weight solutions to maximize passenger capacity



Reliability & availability

Most energy efficient solutions for sustainable transportation





Very-high-speed and high-speed

Locomotive, dual, electric, diesel-electric

Multiple unit trains





Metro

Light rail vehicles



monorail, e-bus



Our business at a glance

The #2 independent traction propulsion system player

Our market





Our business

<\$1 bn 2021 revenues



Our strategic mandate: profitable growth



This recent converter replacement in 120 locomotives saves around 30 GWh of energy every year, equivalent to the average electricity consumption of **10,000 Swiss** households

Global and local supplier of propulsion applications



Our competitive advantage...

~20%

potential energy savings through our latest technologies

Technology leadership...

... advanced, flexible and most energy efficient propulsion systems combined with most modern battery storage solutions

30+ years

of operations with close relationships with our key partners

Strong and long-lasting relationships with leading industry OEMs & Operators...

... due to highly demanding applications and long lifecycles of the products

access to the whole ABB footprint

dedicated production sites with

From fast developing new markets to servicing old trains...

... global and local presence to develop new markets and support servicing needs in more mature ones

The most energy efficient propulsion systems

A recent comparison of a 2L converter and a 3L converter in two separate rail lines, found that the 3L converter delivered energy savings of 20%, 10% lower harmonic losses and 55% lower motor temperatures



Transferring our existing rail know-how to emerging markets

- We have a **strong foundation in rail** with deep domain expertise
- Our modular offering, which is customizable for the most demanding applications, can easily be applied to other high growth niche markets
- We have tried and tested this through a collaboration with OEMs & operators on a zero-emission battery electric rigid dump truck which utilizes powerful energy storage solutions to facilitate the transportation of over 220 tones





From iron rails to rubber wheels

E-MINING

The global rate of electrification of mining vehicles is expected to **increase by up to 10% or roughly 125,000 vehicles by 2025**

E-MOBILITY

eBus registrations in Europe **up by 48%** in 2021 (~3,200 vehicles). Market share in EU is expected to grow to 30% in 2025

MOTION TRACTION PRODUCT LINE GROWTH





KEY TRENDS & CUSTOMER REQUIREMENTS





Digital solutions



Rail

Sustainable public transport





The 15% energy savings on this single bus line (9 buses) equates to savings of over 200,000 liters of diesel and 540 tonnes of CO_2 emissions a year

We will deliver profitable growth

A global leader with local presence... ...in a \$4 bn rail market with a strong outlook in emerging markets...

...delivering profitable growth

The future of transport is electric



