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Motion

Capital Markets Day 2020

Morten Wierod, President of Motion Mika Kulju, President of MO Drive Products division

What we will show you today

01. Market leader in an attractive market

- Mega trends remain intact and the need to reduce carbon emissions across all industries will drive further demand
- Resilient value contribution despite Covid-19
- Differentiation by technology leadership, deep domain expertise and global scale & coverage

O2. ABB Way: Performance and growth

- Clear mandate for every division
- Refined divisional set up to drive growth and operational excellence
- Division deep dive: Drive Products Division

03. Sustainable shareholder value creation

- Increased margin corridor to 15–19%
- Continued execution on growth and profitability levers
- Sustainability at the core of our business



The world is going electric



Demand for electric motion to double by 2040





Motion offering

Global #1	#1 in motors & drives
	#5 in MPT
•\$80 bn	2019 market size ¹
6.5 bn	2019 revenues
.6.6%	2019 Op. EBITA
•20 k	Employees worldwide

Drives Kilowatts to Megawatts

 Ability[™] offering



- Low voltage drives
- Medium voltage drives



Mechanical power transmission

- Ability™ offering
- Bearings and power transmission



Electrical Motors Kilowatts to Megawatts

• Ability™ offering



• IEC Motors

 NEMA Motors



• Large Motors & Generators



Resilient value contribution

Driving above-market growth going forward Medium-term revenue develop Penetratio 16.51 Innovatio Growth larket powth Above-market Driving operating EBITA margin **Operating EBITA margin** \$ Profit

2019 ABB Capital Markets Day



Global #1 in motion industries – leading from a strong foundation



Customer needs & trends

Performance, efficiency & reliability

Increasing application complexity

Digitalization across the whole value chain

Digital commerce

Enabling a business case for sustainability

Our key differentiators



01. Technology leadership



02. Domain expertise



03. Global scale and coverage

Pioneering Technology Leader driving innovation in motion industries

Staying ahead by pushing the boundaries today and for tomorrow



Washdown motor



2018 Subsea drive



2018 Analytics & Digital centers

Industry leading investment in R&D



2016 ABB Ability™ Smart Sensor for motor



2018 ABB Ability™ Smart Sensor for bearing



2019 ABB Ability™ IoT Drive Connect

Be connected, learn faster

ABB Ability™ Digital Powertrain

- ABB Ability[™] remote condition monitoring
- Smart analytics and AI

Domain expertise and most comprehensive offering



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Deep domain expertise:

- 3,500+ ABB Motion solution experts helping customers every day
- Application expert communities with our channel partners





Our offering:

- Is industry and application specific
- Provides the right performance



We are a partner for life:

- 45 million drives and motors in the field
- 6 ABB Ability[™] Motion centers
- High service attachment rate



Focus on

industrial motion

Global coverage, always close to our customers and partners



3

We set new standards in energy efficiency

Campbell's Australia cuts costs with ABB Synchronous Reluctance Motors

01. Why? To save energy and help Campbell's reach their ambitious sustainability targets

> What?
> The new IE5 ultra-premium energy efficiency SynRM motor and drive package

03.

Benefits?

14% reduction in energy costs, reduction (131 tons of CO₂)

Noise reduction, lower running temperature, smoother operation and reduced vibration



Domain leader in critical infrastructure projects

Reliable freshwater supply in vital pumping project in Shanxi Province, China





What?

Medium voltage LCI¹, 19 synchronous motors, as well as the PLC system, transformers, switch cabinets, excitation, and filters

Benefits?

Reliable and constant waterflow while having the most energy efficient solution in place



Peace of mind for our customers: physical and digital services 24/7 globally ERGO Hestia offers customers a solution to secure uptime and enables a new business model

Why? 01. Peace of mind for our customers: improving safety, while limiting the loss potential

What?

O2• ABB Ability™ Smart Sensors for monitoring motors where failures can cause serious asset damage and long-term downtime

Benefits? 03. Safety, reliability and minimized loss of revenues



How each division in Motion will deliver

Split Motors and Generators into 3 Divisions with distinct strategic mandates and priorities



Key priorities

Grow in underserved markets

Standardization and operational excellence

Sales efficiency via digitalization of processes



Standardization of product offering

Division portfolio optimization

Fixed asset utilization and operational excellence



Segment and application specific offerings

Modularization of product platforms

Digitalization of all customer and partner touchpoints





Segment and application specific offerings

Expansion in adjacent markets

Digitally enabled services

Division led collaboration across R&D, SCM and back office functions

How each division in Motion will deliver





Key priorities Granular growth initiatives in focus segments

Segment specific portfolio expansion

Connected drives and digital customer experience Grow in infrastructure segments via portfolio expansion

System Drives

Platform simplification and asset efficiency

Co-creation with customers



Grow XaaS¹ business models throughout MO

Process digitalization for traditional services

24/7 fast response service network



Partner for growth together with our key customers

Expand battery energy storage and electric vehicle business

Digital offerings enablement

Division led collaboration across R&D, SCM and back office functions



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ABB Drive Products Division



ABB AC drives enable low-carbon society and sustainable future

Savings of

- Energy
- Operational costs
- Downtime
- Maintenance
- Raw materials



Click here to learn more





Installed base of ABB low-voltage AC drives saved >100 TWh of energy in 2019

1. Our business today

Our business at a glance

The global market leader



Our strategic mandate: profitable growth

A well diversified global leader

Value-adding channel partner network is a key competitive advantage



Management estimates, based on FY19 revenues

Process: metals, mining, minerals, cement, Pulp & Paper; COG: Chemicals, Oil & Gas; Renewables, Power Gen.: wind, solar, hydro, conventional power generation;

Slide 19 Others: e.g. pharma, rail, EV charging

Comprehensive portfolio and global R&D

Leverage benefits of scale and meet requirements of different markets and segments

Comprehensive product portfolio

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Global hardware platforms with **differentiated firmware** by region and segment

60%

of R&D personnel focused on software development

7

countries in global R&D network

Technology leadership and domain expertise delivering superior value Giant Almaza mall manages HVAC with state-of-the-art ABB drives

Click here to learn more

Why?

Ensuring reliable and efficient air comfort at giant Almaza City Center mall (size of 18 football fields)

What?

200 ACH580 ultra-low harmonics¹ drives in a unique state-of-the-art combination in one single device:

- Complete HVAC² functionality
- Effective harmonics mitigation Sold and implemented by channel partner

Benefits?

- Easier, faster integration and commissioning
- Energy savings
- 97 percent less harmonics¹
- Saving space, installation and maintenance work

 Ultra-low harmonics is an advanced technology which reduces electrical disturbance and reactive power
HVAC: Heating, Ventilation, and Air Conditioning



2. Our business in the future

Strengthen leadership position and increase market share beyond 15%

Attractive \$10bn growth market with plenty of granular growth opportunities



Market position (selected segments)

HVAC / Buildings	#2
~\$1.5 bn	
Water & wastewater	#1
~\$1 bn	
Food & beverage	#3
~\$1 bn	
Machinery OEMs	#7
~\$1.5 bn	
Process industries	#1
~\$3 bn	

How we will drive profitability

Build on market leadership...



Scale benefits of #1 position



Strong investment in R&D



Value leader with a comprehensive offering



94% reduction of electric disturbance in wastewater plant <u>Click here to learn more</u>



<2 years of payback, 200 hrs downtime p.a. saved in sawmill



Click here to learn more

... and continue to differentiate by creating value

Customer value beyond products

Digital strategy with two key dimensions: connected products and digital customer experience

Connected products – plug & play low-cost connectivity



1st in market with built-in cellular cloud connection¹

Enabling new service revenue streams and smart support

Digital customer experience



Connected products with digitalized customer interaction

In summary...

We keep the world turning while saving energy every day

A market-leading ABB Division, fully empowered and accountable for our performance



Motion Operational EBITA bridge

Aim for upper end of margin corridor as from 2023



Profitability levers

Growth above market via granular industry segment approach

Industry leading volumes and unmatched scale in R&D, G&A and our service network

Continuous pricing actions

Portfolio management for growth and performance

Digital services and new business models

Motion drives sustainable shareholder value creation

Strong and resilient business

From 2018 to 2019

- Grew revenue by 4% (comparable yoy)
- Improved profitability by 70 bps (16.6% Op. EBITA margin 2019)

Attractive market – awareness for sustainability will fuel even more opportunities

Continue to grow faster than the market

Committed to support ABB in enabling a low-carbon society Systematic portfolio management

Portfolio bolt-ons to enhance growth and performance

Value beyond product and digital services

Aim for upper end of Op. EBITA margin corridor as from 2023

