

ABB LTD
Form 6-K
July 19, 2018

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

Form 6-K

**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16
UNDER THE SECURITIES EXCHANGE ACT OF 1934**

For the month of July 2018

Commission File Number 001-16429

ABB Ltd

(Translation of registrant's name into English)

P.O. Box 1831, Affolternstrasse 44, CH-8050, Zurich, Switzerland

(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F

Form 40-F

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Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Note: Regulation S-T Rule 101(b)(1) only permits the submission in paper of a Form 6-K if submitted solely to provide an attached annual report to security holders.

Indication by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Note: Regulation S-T Rule 101(b)(7) only permits the submission in paper of a Form 6-K if submitted to furnish a report or other document that the registrant foreign private issuer must furnish and make public under the laws of the jurisdiction in which the registrant is incorporated, domiciled or legally organized (the registrant's "home country"), or under the rules of the home country exchange on which the registrant's securities are traded, as long as the report or other document is not a press release, is not required to be and has not been distributed to the registrant's security holders, and, if discussing a material event, has already been the subject of a Form 6-K submission or other Commission filing on EDGAR.

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes

No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82-

This Form 6-K consists of the following:

1. Press release issued by ABB Ltd dated July 19, 2018 titled “Continued profitable growth”.
2. Q2 2018 Financial Information.
3. Announcements regarding transactions in ABB Ltd’s Securities made by the directors or the members of the Executive Committee.

The information provided by Item 2 above is hereby incorporated by reference into the Registration Statements on Form F-3 of ABB Ltd and ABB Finance (USA) Inc. (File Nos. 333-223907 and 333-223907-01) and registration statements on Form S-8 (File Nos. 333-190180, 333-181583, 333-179472, 333-171971 and 333-129271) each of which was previously filed with the Securities and Exchange Commission.

ZURICH, SWITZERLAND, JULY 19, 2018: SECOND QUARTER HIGHLIGHTS

Continued profitable growth

Total orders +8% , up in all divisions and regions

Base orders +9%, up in all divisions and regions

Revenues +1%

Book-to-bill ratio at 1.07x, >1 in all divisions

Operational EBITA margin up 60bps to 13.0%

Operational EPS +27%⁴

Net income \$681 million, +30%

Cash flow from operating activities \$1,010 million; solid cash delivery for the full year expected

“In the second quarter, we drove order growth in all divisions and across all regions. Through our continued productivity efforts, we delivered margin improvement and double-digit operational EPS growth,” said ABB CEO Ulrich Spiesshofer. “We completed the acquisition of GE Industrial Solutions within the committed time-frame and have started the integration at full speed together with our new colleagues.”

“With disciplined focus on relentless execution, our four divisions are continuing their drive towards world-class efficiency and effectiveness,” he added. “These results show that our transformation over the past years is delivering.”

Key figures (\$ in millions, unless otherwise indicated)	Q2 2018	Q2 2017	Change				Change	
			US\$ Comparable ¹	H1 2018	H1 2017		US\$ Comparable ¹	
Orders	9,483	8,349	+14%	+8%	19,255	16,752	+15%	+7%
Revenues	8,889	8,454	+5%	+1%	17,516	16,308	+7%	+1%
Operational EBITA ²	1,167	1,042	+12%	+8% ³	2,227	1,985	+12%	+6% ³

as % of operational revenues	13.0%	12.4%	+0.6pts		12.7%	12.3%	+0.4pts	
Net income	681	525	+30%		1,253	1,249	0%	
Basic EPS (\$)	0.32	0.25	+30% ⁴		0.59	0.58	+1% ⁴	
Operational EPS ² (\$)	0.38	0.30	+28% ⁴	+27% ⁴	0.69	0.58	+19% ⁴	+16% ⁴
Cash flow from operating activities	1,010	467	+116%		492	976	-50%	

Short-term outlook

Macroeconomic signs are trending positively in Europe and the United States, with growth expected to continue in China. The overall global market is growing, with rising geopolitical uncertainties in various parts of the world. Oil prices and foreign exchange translation effects are expected to continue to influence the company's results.

¹ Growth rates for orders, third-party base orders and revenues are on a comparable basis (local currency adjusted for acquisitions and divestitures). US\$ growth rates are presented in Key Figures table.

² For non-GAAP measures, see the "Supplemental Financial Information" attachment to the press release.

³ Constant currency (not adjusted for portfolio changes).

⁴ EPS growth rates are computed using unrounded amounts. Comparable operational earnings per share is in constant currency (2014 exchange rates not adjusted for changes in the business portfolio).

Q2 2018 Group results

Orders

Total orders rose 8 percent (14 percent in US dollars), up in all divisions and regions compared to a year ago. Base orders (classified as orders below \$15 million) increased 9 percent (14 percent in US dollars), up in all divisions and regions. Large orders represented 7 percent of total orders, compared to 8 percent in the same quarter of 2017. ABB's comprehensive digital offering, ABB Ability™, was a significant contributor to the quarter's order growth.

The book-to-bill ratio increased to 1.07x at the end of the quarter compared with 0.99x in the previous year.

Service orders were up 2 percent (5 percent in US dollars) on a tough comparable period. Service orders represent 19 percent of total orders, compared to 20 percent in the prior year period.

Changes in the business portfolio related to the acquisition of B&R resulted in a net positive impact of 3 percent on total reported orders. A stronger US dollar versus the prior year period provided a 3 percent positive translation impact on reported orders.

Market overview

ABB saw strong demand from all regions in the quarter:

Total orders from Europe rose 10 percent (22 percent in US dollars), with positive contribution from Germany, Italy, the UK, Norway, Spain and France more than offsetting declines in Sweden, Finland and Switzerland. Base orders rose 12 percent (24 percent in US dollars) with Italy and the UK as the main contributors.

The Americas delivered a 7 percent rise in total orders (7 percent in US dollars). Higher orders were recorded in the United States, Canada and Mexico. Base orders increased 7 percent (7 percent in US dollars). The United States grew, on a comparable basis, 6 percent (7 percent in US dollars) in total order terms and 7 percent (8 percent in US dollars) in base orders.

In Asia, Middle East and Africa (AMEA), total orders grew 7 percent (11 percent in US dollars) with good order demand from China, India and the UAE. Base orders rose 7 percent (12 percent in US dollars) with positive contributions from China, India and Australia more than offsetting lower intake from South Korea and South Africa. In China, total and base orders increased 20 percent and 23 percent (29 percent and 32 percent in US dollars)

respectively.

Demand grew in the majority of ABB's key customer segments:

Utility demand was mixed in the second quarter. Activity related to grid integration for renewables and investments in improving grid reliability, particularly through digitalization, continued to grow. Larger grid investments, for example in long distance transmission, remained subdued.

Industrial demand grew well across a broad customer base in the quarter. Process industries, including oil and gas and mining, continued to increase investments, with capex concentrated on upgrading and automating brown-field assets. An ongoing focus on select industries such as food and beverage and automotive, proved beneficial for order momentum, particularly ABB's automation and robotics solutions.

Transport and infrastructure demand was solid, with good orders received for rail electrification, from the construction sector and in specialty vessels. Highlights for the quarter include continued strong growth in data centers and for electric vehicle fast-charging solutions.

CONTINUED PROFITABLE GROWTH

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Revenues

Revenues were up 1 percent (5 percent higher in US dollars), well-supported by continued solid growth in Robotics and Motion and Electrification Products. This was tempered by steady revenues in Industrial Automation and lower revenues in Power Grids due to the lower opening order backlog in both divisions.

Service revenues were up 13 percent (16 percent in US dollars), and represented 19 percent of total revenues, up from 17 percent in the prior year period. Services growth was bolstered by ABB's leading digital portfolio, ABB Ability™ solutions.

Change in exchange rates resulted in a positive translation impact on reported revenues of 2 percent. Business portfolio changes had a net positive effect of 2 percent on reported revenues.

Operational EBITA

Operational EBITA of \$1,167 million increased 8 percent in local currencies (12 percent in US dollars) in the second quarter. The operational EBITA margin increased 60 basis points to 13 percent, supported by continued productivity efforts. ABB continued to invest in its sales, brand and ABB Ability™ over the quarter.

Net income, basic and operational earnings per share

Net income was \$681 million, up 30 percent compared to the prior year's \$525 million. ABB's operational net income² rose 27 percent to \$810 million. Basic earnings per share of \$0.32 was 30 percent higher year-on-year. Operational earnings per share of \$0.38 was up 28 percent, and 27 percent better in constant currency terms⁴.

Cash flow from operating activities

The cash flow from operating activities result of \$1,010 million compares to \$467 million in the second quarter of 2017. Relative to a year ago, cash flow primarily reflects a change in the timing of employee incentive payments paid in the first quarter this year which in 2017 were paid in the second quarter. ABB expects solid cash delivery for the full year.

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Q2 divisional performance

(\$ in millions, unless otherwise indicated)	Orders	Change		3 rd party base orders	Change		Revenues	Change	
		US\$ Comparable ¹			US\$ Comparable ¹			US\$ Comparable ¹	
Power Grids	2,577	+6%	+5%	2,128	+9%	+7%	2,354	-6%	-8%
Electrification Products	2,727	+9%	+6%	2,553	+7%	+4%	2,673	+7%	+4%
Industrial Automation	2,005	+34%	+15%	1,715	+30%	+9%	1,839	+17%	0%
Robotics and Motion	2,540	+15%	+11%	2,363	+20%	+16%	2,316	+11%	+8%
Corporate & other	(366)			35			(293)		
ABB Group	9,483	+14%	+8%	8,794	+14%	+9%	8,889	+5%	+1%

Effective January 1, 2018, management responsibility and oversight of certain remaining engineering, procurement and construction (EPC) business, previously included in the Power Grids, Industrial Automation, Robotics and Motion operating segments, were transferred to a new non-core operating business within Corporate and Other. Previously reported amounts have been reclassified consistent with this new structure.

Power Grids

Momentum in third-party base order growth continued, rising 7 percent (9 percent in US dollars). Total orders were up 5 percent (6 percent in US dollars). Power Up initiatives and ABB Ability™ solutions gained traction. Renewables, grid digitalization and pick up in industrial and transportation sectors contributed to the growth. At the end of the second quarter, the order backlog was 4 percent lower (6 percent in US dollars) versus the prior year period. Revenues were 8 percent lower (6 percent in US dollars), dampened by the lower opening order backlog. Operational EBITA margin was 9.7 percent, mainly due to lower revenues and investment in the ongoing Power Up program. Cost management initiatives are in place.

Electrification Products

Total orders increased 6 percent (9 percent in US dollars) and third-party base orders improved 4 percent (7 percent in US dollars). Order growth was broad based, with all business units, particularly products, performing well across all regions. Revenues increased 4 percent (7 percent in US dollars). Operational EBITA margins expanded 100 basis points year-on-year, benefiting from pricing actions and sustained productivity efforts.

Industrial Automation

Total orders (including B&R and currency effects) were up 34 percent and third-party base

orders were up 30 percent compared to the prior year period. On a comparable basis, total orders rose 15 percent and third-party base orders increased 9 percent. Investments continued for specialty vessels as well as selective investments in process industries, particularly oil and gas. Base orders grew across all industries, with double digit growth in service. At the end of the second quarter, the order backlog was 4 percent lower (1 percent lower in US dollars) versus the prior year period. Revenues were stable in the quarter, reflecting revenues from strong product orders offsetting the lower opening order backlog. The operational EBITA margin improved by 70 basis points, supported by a positive mix and strong project execution.

Robotics and Motion

Third-party base orders increased 16 percent (20 percent in US dollars) and total orders increased 11 percent (15 percent in US dollars) in the quarter. Order growth was achieved across all business units and regions, with demand from process industries continuing the recovery trend. Revenues increased 8 percent (11 percent in US dollars). Operational EBITA margin expanded 100 basis points year-on-year to 16.1 percent, due to positive volumes and mix as well as continued productivity efforts.

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Next Level strategy

Since 2014, ABB has been executing its Next Level strategy, focusing on profitable growth, relentless execution and business-led collaboration. In the past years, ABB has shaped its divisions into four market-leading, entrepreneurial units; has driven a quantum leap in digital through ABB Ability™; has accelerated momentum in operational excellence; and has strengthened ABB's brand.

All of ABB's divisions are driving profitable growth within key markets, with new and existing end-to-end digital ABB Ability™ solutions, able to close the loop with connected devices and build on the intelligent cloud. The divisions continue to focus on relentless execution, building on existing momentum and continuing to invest in growth, with stronger links between compensation and delivery of operational performance.

Today, ABB is better positioned in better markets, with a streamlined and strengthened portfolio that offers two clear value propositions: bringing electricity from any power plant to any plug, and automating industries from natural resources to finished products.

Profitable growth

ABB's digital solutions offering, ABB Ability™, is integral to the company's efforts to drive profitable growth. The offering includes more than 210 ABB Ability™ solutions, meeting the needs of customers in utilities, industry and transport & infrastructure. During the quarter ABB received an order from Danish green energy company Ørsted, to integrate offshore wind power with the UK power grid. As part of the order, ABB will supply its market-leading ABB Ability™ digital grid solutions to ensure power reliability and efficiency. As well, for example, ABB is working with China's Yitai Group, a chemicals company. ABB will supply end-to-end ABB Ability™ solutions that will enable top-tier productivity levels in their new plants. This is the first order in a series of digital projects for Yitai Group.

During the second quarter ABB announced an investment of €100 million in an R&D facility and training campus in Eggelsberg, Austria, which will drive innovation in machine and factory automation including artificial intelligence and machine learning. ABB also announced an investment of around \$30 million in a new state-of-the-art manufacturing unit for Power Grids' transformer offering in Sweden.

Update on the acquisition of GE Industrial Solutions (GEIS)

Through ongoing portfolio management, ABB is shifting its center of gravity. The Group completed its acquisition of GE Industrial Solutions (GEIS) on June 30, 2018. By acquiring GEIS, ABB is strengthening the group's number two position in electrification globally, and increasing the group's exposure to the attractive North American market – already ABB's biggest market – and early cycle business. GEIS is being integrated into ABB's Electrification Products (EP) division as a new business unit called Electrification Products Industrial Solutions (EPIS). Headquartered in Atlanta, Georgia, EPIS has about 14,000 employees around the world.

Approximately \$200 million of annual cost synergies are expected by year five. ABB will realize value through product and technology portfolio harmonization, particularly from coupling ABB Ability™ offerings with the extensive installed base. Synergies will also be extracted from footprint optimization, supply chain savings and SG&A cost reduction. It is expected that the integration of GEIS will have an approximately 60 basis points negative impact on ABB Group operating EBITA margins in the second half of 2018 and approximately 260 basis points on the EP operating EBITA margin. ABB aims to bring the margin for the EP division, after an initial dampening effect, back into its operational EBITA margin target range of fifteen to nineteen percent during 2020. The transaction includes a long-term strategic supply relationship with GE and allows ABB long-term use of the GE brand.

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Relentless execution

ABB continues to benefit from its ongoing cost management and productivity efforts. During the quarter, pricing action and savings outpaced raw materials inflation supporting ABB's ongoing aim of offsetting three to five percent of the group's cost of sales each year.

The group focus on Quality and Operations is building on ABB's 1,000-day programs completed in 2017. Gaps in performance, informed by customer feedback, are rigorously identified and addressed using Lean Six Sigma methods. ABB currently has 1,500 continuous improvement projects underway, led from within each division.

Business-led collaboration

Strategic partnership developments in the second quarter include the formation of a global strategic alliance to provide industrial grade edge data center solutions between ABB and Rittal, building on the success of prior co-operation and a software alliance for collaborative robotics with Kawasaki Heavy Industries.

ABB continues to build strategic brand positioning through its partnership with the ABB Formula E electric car racing championship series, which provides a unique platform to demonstrate e-mobility leadership.

Short- and long-term outlook

Macroeconomic signs are trending positively in Europe and the United States, with growth expected to continue in China. The overall global market is growing, with rising geopolitical uncertainties in various parts of the world. Oil prices and foreign exchange translation effects are expected to continue to influence the company's results.

The attractive long-term demand outlook in ABB's three major customer sectors – utilities, industry and transport & infrastructure – is driven by the Energy and Fourth Industrial Revolutions. ABB is well-positioned to tap into these opportunities for long-term profitable growth with its strong market presence, broad geographic and business scope, technology leadership and financial strength.

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More information

The Q2 2018 results press release and presentation slides are available on the ABB News Center at www.abb.com/news and on the Investor Relations homepage at www.abb.com/investorrelations.

ABB will host a media call today starting at 10:00 a.m. Central European Time (CET) (9:00 a.m. BST, 4:00 a.m. EDT). The event will be accessible by conference call. Lines will be open 10-15 minutes before the start of the call. The media conference call dial-in numbers are:

UK +44 207 107 0613

Sweden +46 8 5051 0031

Rest of Europe, +41 58 310 5000

US and Canada +1 866 291 4166 (toll-free) or +1 631 570 5613 (long-distance charges)

A conference call and webcast for analysts and investors is scheduled to begin today at 2:00 p.m. CET (1:00 p.m. BST, 8:00 a.m. EST). Callers are requested to phone in 10 minutes before the start of the call. The analyst and investor conference call dial-in numbers are:

UK +44 207 107 0613

Sweden +46 8 5051 0031

Rest of Europe, +41 58 310 5000

US and Canada +1 866 291 4166 (toll-free) or +1 631 570 5613 (long-distance charges)

The call will also be accessible on the ABB website at: <https://new.abb.com/investorrelations/second-quarter-2018-results-webcast>. A recorded session will be available as a podcast one hour after the end of the conference call and can be downloaded from our website.

ABB (ABBN: SIX Swiss Ex) is a pioneering technology leader in power grids, electrification products, industrial automation and robotics and motion, serving customers in utilities, industry and transport & infrastructure globally. Continuing a history of innovation spanning

more than 130 years, ABB today is writing the future of industrial digitalization with two clear value propositions: bringing electricity from any power plant to any plug and automating industries from natural resources to finished products. As title partner in ABB Formula E, the fully electric international FIA motorsport class, ABB is pushing the boundaries of e-mobility to contribute to a sustainable future. ABB operates in more than 100 countries with about 147,000 employees. www.abb.com

Third quarter 2018 results	Investor calendar 2018/2019
Fourth quarter and full year 2018 results	October 25, 2018
	February 2019

Important notice about forward-looking information

This press release includes forward-looking information and statements as well as other statements concerning the outlook for our business, including those in the sections of this release titled “Short-term outlook”, “Cash flow from operating activities”, “Next Level strategy” and “Short- and long-term outlook”. These statements are based on current expectations, estimates and projections about the factors that may affect our future performance, including global economic conditions, 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,” “is likely to” or similar expressions. However, there are many risks and uncertainties, many of which are beyond our control, that could cause our actual results to differ materially from the forward-looking information and statements made in this press release and which could affect our ability to achieve any or all of our stated targets. The important factors that could cause such differences include, among others, 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 and such other factors as may be discussed from time to time in ABB Ltd’s filings with the U.S. Securities and Exchange Commission, including its Annual Reports on Form 20-F. Although ABB Ltd believes that its expectations reflected in any such forward-looking statement are based upon reasonable assumptions, it can give no assurance that those expectations will be achieved.

Zurich, July 19, 2018

Ulrich Spiesshofer, CEO

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1 Q2 2018 Financial Information

2 Q2 2018 Financial Information

Key Figures

(\$ in millions, unless otherwise indicated)	Q2 2018	Q2 2017	CHANGE	
			US\$	Comparable ⁽¹⁾
Orders	9,483	8,349	14%	8%
Order backlog (end June)	24,214	23,553	3%	-1%
Revenues	8,889	8,454	5%	1%
Operational EBITA ⁽¹⁾	1,167	1,042	12%	8% ⁽²⁾
as % of operational revenues ⁽¹⁾	13.0%	12.4%	+0.6 pts	
Net income attributable to ABB	681	525	30%	
Basic earnings per share (\$)	0.32	0.25	30% ⁽³⁾	
Operational earnings per share ⁽¹⁾ (\$)	0.38	0.30	28% ⁽³⁾	27% ⁽³⁾
Cash flow from operating activities	1,010	467	116%	

(\$ in millions, unless otherwise indicated)	H1 2018	H1 2017	CHANGE	
			US\$	Comparable ⁽¹⁾
Orders	19,255	16,752	15%	7%
Revenues	17,516	16,308	7%	1%
Operational EBITA ⁽¹⁾	2,227	1,985	12%	6% ⁽²⁾
as % of operational revenues ⁽¹⁾	12.7%	12.3%	+0.4 pts	
Net income attributable to ABB	1,253	1,249	0%	
Basic earnings per share (\$)	0.59	0.58	1% ⁽³⁾	
Operational earnings per share ⁽¹⁾ (\$)	0.69	0.58	19% ⁽³⁾	16% ⁽³⁾
Cash flow from operating activities	492	976	-50%	

(1) For a reconciliation of non-GAAP measures see “Supplemental Reconciliations and Definitions” on page 36.

(2) Constant currency (not adjusted for portfolio changes).

(3) Earnings per share growth rates are computed using unrounded amounts. Comparable Operational earnings per share growth is in constant currency (2014 foreign exchange rates and not adjusted for changes in the business portfolio).

(\$ in millions, unless otherwise indicated)

		Q2 2018	Q2 2017	US\$ Loc	C
Orders	ABB Group	9,483	8,349	14%	11%
	Power Grids	2,577	2,427	6%	5%
	Electrification Products	2,727	2,512	9%	6%
	Industrial Automation	2,005	1,492	34%	30%
	Robotics and Motion	2,540	2,218	15%	11%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(366)	(300)		
Third-party base orders	ABB Group	8,794	7,681	14%	12%
	Power Grids	2,128	1,961	9%	7%
	Electrification Products	2,553	2,393	7%	4%
	Industrial Automation	1,715	1,321	30%	26%
	Robotics and Motion	2,363	1,966	20%	16%
	<i>Corporate and Other</i>	35	40		
Order backlog (end June)	ABB Group	24,214	23,553	3%	4%
	Power Grids	10,471	11,085	-6%	-4%
	Electrification Products	4,449	3,220	38%	39%
	Industrial Automation	5,496	5,578	-1%	-1%
	Robotics and Motion	4,262	4,056	5%	6%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(464)	(386)		
Revenues	ABB Group	8,889	8,454	5%	3%
	Power Grids	2,354	2,507	-6%	-8%
	Electrification Products	2,673	2,509	7%	4%
	Industrial Automation	1,839	1,575	17%	13%
	Robotics and Motion	2,316	2,082	11%	8%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(293)	(219)		
Operational EBITA	ABB Group	1,167	1,042	12%	8%
	Power Grids	232	253	-8%	-9%
	Electrification Products	430	373	15%	10%
	Industrial Automation	260	211	23%	21%
	Robotics and Motion	374	314	19%	15%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(129)	(109)		
Operational EBITA %	ABB Group	13.0%	12.4%		
	Power Grids	9.7%	10.1%		
	Electrification Products	16.0%	15.0%		
	Industrial Automation	14.1%	13.4%		
	Robotics and Motion	16.1%	15.1%		
Income from operations	ABB Group	962	877		
	Power Grids	176	226		
	Electrification Products	343	334		
	Industrial Automation	223	209		
	Robotics and Motion	353	282		
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(133)	(174)		
Income from operations %	ABB Group	10.8%	10.4%		

	Power Grids	7.5%	9.0%
	Electrification Products	12.8%	13.3%
	Industrial Automation	12.1%	13.3%
	Robotics and Motion	15.2%	13.5%
Cash flow from operating activities	ABB Group	1,010	467
	Power Grids	228	77
	Electrification Products	297	259
	Industrial Automation	208	153
	Robotics and Motion	351	221
	<i>Corporate and Other</i>	(74)	(243)

4 Q2 2018 Financial Information

(\$ in millions, unless otherwise indicated)

		H1 2018	H1 2017	US\$ Loc	C
Orders	ABB Group	19,255	16,752	15%	10%
	Power Grids	5,057	4,751	6%	3%
	Electrification Products	5,513	5,040	9%	4%
	Industrial Automation	4,122	3,166	30%	23%
	Robotics and Motion	5,119	4,395	16%	11%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(556)	(600)		
Third-party base orders	ABB Group	17,545	15,279	15%	10%
	Power Grids	4,120	3,724	11%	7%
	Electrification Products	5,200	4,758	9%	4%
	Industrial Automation	3,502	2,762	27%	20%
	Robotics and Motion	4,676	3,957	18%	13%
	<i>Corporate and Other</i>	47	78		
Order backlog (end June)	ABB Group	24,214	23,553	3%	4%
	Power Grids	10,471	11,085	-6%	-4%
	Electrification Products	4,449	3,220	38%	39%
	Industrial Automation	5,496	5,578	-1%	-1%
	Robotics and Motion	4,262	4,056	5%	6%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(464)	(386)		
Revenues	ABB Group	17,516	16,308	7%	3%
	Power Grids	4,739	4,858	-2%	-6%
	Electrification Products	5,167	4,802	8%	3%
	Industrial Automation	3,698	3,088	20%	14%
	Robotics and Motion	4,525	4,002	13%	8%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(613)	(442)		
Operational EBITA	ABB Group	2,227	1,985	12%	6%
	Power Grids	464	484	-4%	-7%
	Electrification Products	807	695	16%	8%
	Industrial Automation	522	417	25%	19%
	Robotics and Motion	712	596	19%	13%
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(278)	(207)		
Operational EBITA %	ABB Group	12.7%	12.3%		
	Power Grids	9.7%	10.0%		
	Electrification Products	15.6%	14.6%		
	Industrial Automation	14.1%	13.6%		
	Robotics and Motion	15.7%	14.9%		
Income from operations	ABB Group	1,857	1,900		
	Power Grids	369	437		
	Electrification Products	661	641		
	Industrial Automation	460	420		
	Robotics and Motion	666	543		
	<i>Corporate and Other</i>				
	<i>(incl. inter-division eliminations)</i>	(299)	(141)		
Income from operations %	ABB Group	10.6%	11.7%		

		Power Grids	7.8%	9.0%
		Electrification Products	12.8%	13.3%
		Industrial Automation	12.4%	13.6%
		Robotics and Motion	14.7%	13.6%
Cash flow from operating activities	ABB Group		492	976
		Power Grids	(22)	267
		Electrification Products	378	464
		Industrial Automation	287	273
		Robotics and Motion	424	484
		<i>Corporate and Other</i>	(575)	(512)
5	Q2 2018 Financial Information			

Operational EBITA

(\$ in millions, unless otherwise indicated)

	ABB		Power Grids		Electrification Products		Industrial Automation	
	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17
Revenues	8,889	8,454	2,354	2,507	2,673	2,509	1,839	1,575
FX/commodity timing differences in total revenues	75	(26)	42	(13)	20	(16)	7	(2)
Operational revenues	8,964	8,428	2,396	2,494	2,693	2,493	1,846	1,573
Income from operations	962	877	176	226	343	334	223	209
Acquisition-related amortization	72	56	10	9	19	26	21	2
Restructuring and restructuring-related expenses ⁽¹⁾	6	84	7	18	(1)	13	–	5
Changes in retained obligations of divested businesses	–	–	–	–	–	–	–	–
Changes in pre-acquisition estimates	1	2	–	–	1	2	–	–
Gains and losses from sale of businesses	(1)	7	–	–	2	–	–	(2)
Acquisition-related expenses and integration costs	51	8	3	1	44	3	1	4
Certain other non-operational items	30	48	12	24	10	9	–	–
FX/commodity timing differences in income from operations	46	(40)	24	(25)	12	(14)	15	(7)
Operational EBITA	1,167	1,042	232	253	430	373	260	211
Operational EBITA margin (%)	13.0%	12.4%	9.7%	10.1%	16.0%	15.0%	14.1%	13.4%

(\$ in millions, unless otherwise indicated)

	ABB		Power Grids		Electrification Products		Industrial Automation	
	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17
Revenues	17,516	16,308	4,739	4,858	5,167	4,802	3,698	3,088
FX/commodity timing differences in total revenues	87	(105)	56	(41)	14	(27)	6	(15)
Operational revenues	17,603	16,203	4,795	4,817	5,181	4,775	3,704	3,073
Income from operations	1,857	1,900	369	437	661	641	460	420
Acquisition-related amortization	145	115	20	17	39	52	44	4
Restructuring and restructuring-related expenses ⁽¹⁾	17	132	11	21	3	13	2	9
Changes in retained obligations of divested businesses	–	94	–	–	–	–	–	–
Changes in pre-acquisition estimates	1	2	–	–	1	2	–	–
Gains and losses from sale of businesses	5	(331)	–	–	2	–	3	(2)
Acquisition-related expenses and integration costs	77	14	4	–	68	3	2	7
Certain other non-operational items	59	150	27	52	15	13	–	–

FX/commodity timing differences in income from operations	66	(91)	33	(43)	18	(29)	11	(21)
Operational EBITA	2,227	1,985	464	484	807	695	522	417
Operational EBITA margin (%)	12.7%	12.3%	9.7%	10.0%	15.6%	14.6%	14.1%	13.6%

(1) Amounts in 2017 also include the incremental implementation costs in relation to the White Collar Productivity program.

Depreciation and Amortization

(\$ in millions)	ABB		Power Grids		Electrification Products		Industrial Automation	
	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17
Depreciation	188	180	42	43	50	50	17	17
Amortization	92	78	16	15	21	29	23	23
including total acquisition-related amortization of:	72	56	10	9	19	26	21	21

(\$ in millions)	ABB		Power Grids		Electrification Products		Industrial Automation	
	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17
Depreciation	381	364	87	86	102	100	34	34
Amortization	184	157	33	30	44	58	47	47
including total acquisition-related amortization of:	145	115	20	17	39	52	44	44

Orders received and revenues by region

(\$ in millions, unless otherwise indicated)	Orders received		CHANGE		Revenues		CHANGE	
	Q2 18	Q2 17	Com- US\$ Local parable		Q2 18	Q2 17	Com- US\$ Local parable	
Europe	3,469	2,843	22%	16%	10%	3,071	2,813	9% 4%
The Americas	2,601	2,441	7%	8%	7%	2,545	2,472	3% 4%
Asia, Middle East and Africa	3,413	3,065	11%	8%	7%	3,273	3,169	3% 0%
ABB Group	9,483	8,349	14%	11%	8%	8,889	8,454	5% 3%

(\$ in millions, unless otherwise indicated)	Orders received		CHANGE		Revenues		CHANGE	
	H1 18	H1 17	Com- US\$ Local parable		H1 18	H1 17	Com- US\$ Local parable	
Europe	7,051	5,970	18%	8%	3%	6,220	5,507	13% 4%
The Americas	4,992	4,803	4%	4%	3%	4,935	4,804	3% 3%
Asia, Middle East and Africa	7,212	5,979	21%	15%	13%	6,361	5,997	6% 1%
ABB Group	19,255	16,752	15%	10%	7%	17,516	16,308	7% 3%

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Interim Consolidated Financial Information

ABB Ltd Interim Consolidated Income Statements (unaudited)

(\$ in millions, except per share data in \$)

Sales of products

Sales of services and other

Total revenues

Cost of sales of products

Cost of services and other

Total cost of sales

Gross profit

Selling, general and administrative expenses

Non-order related research and development expenses

Other income (expense), net

Income from operations

Interest and dividend income

Interest and other finance expense

Non-operational pension (cost) credit

Income from continuing operations before taxes

Provision for taxes

Income from continuing operations, net of tax

Income (loss) from discontinued operations, net of tax

Net income

Net income attributable to noncontrolling interests

Net income attributable to ABB

Amounts attributable to ABB shareholders:

Income from continuing operations, net of tax

Net income

Basic earnings per share attributable to ABB shareholders:

Income from continuing operations, net of tax

Net income

Diluted earnings per share attributable to ABB shareholders:

Income from continuing operations, net of tax

Net income

Weighted-average number of shares outstanding (in millions) used to compute:

Basic earnings per share attributable to ABB shareholders

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Diluted earnings per share attributable to ABB shareholders

Due to rounding, numbers presented may not add to the totals provided.

See Notes to the Interim Consolidated Financial Information

8 Q2 2018 Financial Information

ABB Ltd Interim Condensed Consolidated Statements of Comprehensive Income (unaudited)

	Six months Jun. 30, 2018
(\$ in millions)	
Total comprehensive income, net of tax	984
Total comprehensive income attributable to noncontrolling interests, net of tax	(60)
Total comprehensive income attributable to ABB shareholders, net of tax	924
Due to rounding, numbers presented may not add to the totals provided.	

See Notes to the Interim Consolidated Financial Information

9 Q2 2018 Financial Information

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ABB Ltd Interim Consolidated Balance Sheets (unaudited)

(\$ in millions, except share data)

Jun.

Cash and equivalents
Marketable securities and short-term investments
Receivables, net
Contract assets
Inventories, net
Prepaid expenses
Other current assets
Total current assets

Property, plant and equipment, net
Goodwill
Other intangible assets, net
Prepaid pension and other employee benefits
Investments in equity-accounted companies
Deferred taxes
Other non-current assets
Total assets

Accounts payable, trade
Contract liabilities
Short-term debt and current maturities of long-term debt
Provisions for warranties
Other provisions
Other current liabilities
Total current liabilities

Long-term debt
Pension and other employee benefits
Deferred taxes
Other non-current liabilities
Total liabilities

Commitments and contingencies

Stockholders' equity:

Capital stock
(2,168,148,264 issued shares at June 30, 2018, and December 31, 2017)
Additional paid-in capital
Retained earnings
Accumulated other comprehensive loss
Treasury stock, at cost
(36,372,358 and 29,541,775 shares at June 30, 2018, and December 31, 2017, respectively)
Total ABB stockholders' equity
Noncontrolling interests

Total stockholders' equity

Total liabilities and stockholders' equity

Due to rounding, numbers presented may not add to the totals provided.

See Notes to the Interim Consolidated Financial Information

10 Q2 2018 Financial Information

ABB Ltd Interim Consolidated Statements of Cash Flows (unaudited)

(\$ in millions)

Operating activities:

Net income

Adjustments to reconcile net income to net cash provided by operating activities:

Depreciation and amortization

Deferred taxes

Net loss (gain) from derivatives and foreign exchange

Net loss (gain) from sale of property, plant and equipment

Net loss (gain) from sale of businesses

Share-based payment arrangements

Other

Changes in operating assets and liabilities:

Trade receivables, net

Contract assets and liabilities

Inventories, net

Trade payables

Accrued liabilities

Provisions, net

Income taxes payable and receivable

Other assets and liabilities, net

Net cash provided by operating activities

Investing activities:

Purchases of marketable securities (available-for-sale)

Purchases of short-term investments

Purchases of property, plant and equipment and intangible assets

Acquisition of businesses (net of cash acquired)

and increases in cost- and equity-accounted companies

Proceeds from sales of marketable securities (available-for-sale)

Proceeds from maturity of marketable securities (available-for-sale)

Proceeds from short-term investments

Proceeds from sales of property, plant and equipment

Proceeds from sales of businesses (net of transaction costs

and cash disposed) and cost- and equity-accounted companies

Net cash from settlement of foreign currency derivatives

Other investing activities

Net cash provided by (used in) investing activities

Financing activities:

Net changes in debt with original maturities of 90 days or less

Increase in debt

Repayment of debt

Delivery of shares

Purchase of treasury stock

Dividends paid

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Jun. 3

Dividends paid to noncontrolling shareholders

Other financing activities

Net cash provided by (used in) financing activities

Effects of exchange rate changes on cash and equivalents

Net change in cash and equivalents – continuing operations

Cash and equivalents, beginning of period

Cash and equivalents, end of period

Supplementary disclosure of cash flow information:

Interest paid

Taxes paid

Due to rounding, numbers presented may not add to the totals provided.

See Notes to the Interim Consolidated Financial Information

11 Q2 2018 Financial Information

ABB Ltd Interim Consolidated Statements of Changes in Stockholders' Equity (unaudited)

(\$ in millions)	Capital stock	Additional paid-in capital	Retained earnings	Total accumulated other comprehensive loss	Treasury stock	Total ABB stockholders' equity
Balance at January 1, 2017	192	24	19,925	(5,187)	(1,559)	13,305
Comprehensive income:						
Net income			1,249			1,249
Foreign currency translation adjustments, net of tax of \$(1)				564		564
Effect of change in fair value of available-for-sale securities, net of tax of \$0				2		2
Unrecognized income (expense) related to pensions and other postretirement plans, net of tax of \$(13)				(51)		(51)
Change in derivatives qualifying as cash flow hedges, net of tax of \$2				5		5
Total comprehensive income						1,765
Changes in noncontrolling interests						
Dividends to noncontrolling shareholders						
Dividends paid to shareholders			(1,622)			(1,622)
Share-based payment arrangements		27				27
Purchase of treasury stock					(251)	(251)
Delivery of shares		(23)			109	86
Balance at June 30, 2017	192	27	19,552	(4,667)	(1,701)	13,403
Balance at January 1, 2018	188	29	19,594	(4,345)	(647)	14,819
Cumulative effect of changes in accounting principles			(192)	(9)		(201)
Comprehensive income:						
Net income			1,253			1,253
Foreign currency translation adjustments, net of tax of \$1				(389)		(389)
Effect of change in fair value of available-for-sale securities, net of tax of \$(1)				(5)		(5)
Unrecognized income (expense) related to pensions and other postretirement plans, net of tax of \$25				84		84

Change in derivatives qualifying as cash flow hedges, net of tax of \$(3)				(19)		(3)
Total comprehensive income						9
Changes in noncontrolling interests						
Dividends to noncontrolling shareholders						
Dividends paid to shareholders			(1,736)			(1,736)
Share-based payment arrangements	28					
Purchase of treasury stock				(249)		(249)
Delivery of shares	(30)			72		
Balance at June 30, 2018	188	26	18,919	(4,683)	(824)	13,610
Due to rounding, numbers presented may not add to the totals provided.						

See Notes to the Interim Consolidated Financial Information
12 Q2 2018 Financial Information

Notes to the Interim Consolidated Financial Information (unaudited)

□

Note 1

The Company and basis of presentation

ABB Ltd and its subsidiaries (collectively, the Company) together form a pioneering technology leader in power grids, electrification products, industrial automation and robotics and motion, serving customers in utilities, industry and transport & infrastructure globally.

The Company's Interim Consolidated Financial Information is prepared in accordance with United States of America generally accepted accounting principles (U.S. GAAP) for interim financial reporting. As such, the Interim Consolidated Financial Information does not include all the information and notes required under U.S. GAAP for annual consolidated financial statements. Therefore, such financial information should be read in conjunction with the audited consolidated financial statements in the Company's Annual Report for the year ended December 31, 2017.

The preparation of financial information in conformity with U.S. GAAP requires management to make assumptions and estimates that directly affect the amounts reported in the Interim Consolidated Financial Information. The most significant, difficult and subjective of such accounting assumptions and estimates include:

- estimates and assumptions used in determining the fair values of assets and liabilities assumed in business combinations,
- assumptions used in determining inventory obsolescence and net realizable value,
- estimates used to record expected costs for employee severance in connection with restructuring programs,

- assumptions and projections, principally related to future material, labor and project related overhead costs, used in determining the percentage of completion on projects,
- estimates of loss contingencies associated with litigation or threatened litigation and other claims and inquiries, environmental damages, product warranties, self-insurance reserves, regulatory and other proceedings,
- assumptions used in the calculation of pension and postretirement benefits and the fair value of pension plan assets,
- estimates to determine valuation allowances for deferred tax assets and amounts recorded for uncertain tax positions,
- growth rates, discount rates and other assumptions used to determine impairment of long lived assets and in testing goodwill for impairment,
- assessment of the allowance for doubtful accounts, and
- the estimated effective annual tax rate applicable to the interim financial information.

The actual results and outcomes may differ from the Company's estimates and assumptions.

A portion of the Company's activities (primarily long-term construction activities) has an operating cycle that exceeds one year. For classification of current assets and liabilities related to such activities, the Company elected to use the duration of the individual contracts as its operating cycle. Accordingly, there are accounts receivable, contract assets, inventories and provisions related to these contracts which will not be realized within one year that have been classified as current.

Basis of presentation

In the opinion of management, the unaudited Interim Consolidated Financial Information contains all necessary adjustments to present fairly the financial position, results of operations and cash flows for the reported interim periods. Management considers all such adjustments to be of a normal recurring nature.

The Company has retained obligations (primarily for environmental and taxes) related to businesses disposed or otherwise exited that qualified as discontinued operations. Changes to these retained obligations are recorded in income/loss from discontinued operations, net of tax.

The Interim Consolidated Financial Information is presented in United States dollars (\$) unless otherwise stated. Due to rounding, numbers presented in the Interim Consolidated Financial Information may not add to the totals provided.

Reclassifications

Certain amounts reported in the Interim Consolidated Financial Information for prior periods have been reclassified to conform to the current year's presentation. These changes primarily relate to:

- the reorganization of the Company's operating segments (see Note 15), and
- as a result of the adoption of a number of accounting pronouncements (see Note 2):

(i) the reclassification of Unbilled receivables from Receivables to Contract assets,

(ii) the reclassification of Billings in excess of sales, Advances from customers, certain advances to customers previously reported as a reduction in Inventories, and deferred revenues previously reported in Other current liabilities, to Contract liabilities, and

(iii) the reclassification of certain net periodic pension and postretirement benefits costs/credits from Total cost of sales, Selling, general and administrative expenses and Non-order related research and development expenses to Non-operational pension (cost) credit.

□

Note 2**Recent accounting pronouncements****Applicable for current periods****Revenue from contracts with customers**

As of January 1, 2018, the Company adopted a new accounting standard for recognizing revenues from contracts with customers. The new standard, which supersedes substantially all previously existing revenue recognition guidance, provides a single comprehensive model for recognizing revenues on the transfer of promised goods or services to customers for an amount that reflects the consideration that is expected to be received for those goods or services. The adoption of this standard resulted in only immaterial differences between the identification of performance obligations and the current unit of accounting determination. Therefore, the cumulative effect on retained earnings of retrospectively applying this standard was not significant. However, total assets and total liabilities increased by \$196 million due to the reclassification of certain advances from customers, previously reported as a reduction in Inventories, to liabilities.

While comparative information has not been restated and continues to be measured and reported under the accounting standards in effect for those periods presented, the following prior period amounts have been reclassified in the Consolidated Balance Sheets to conform to the presentation requirements of the new standard:

(\$ in millions)	December 31, 2017			
	Previously reported	As adjusted	Previously reported	As adjusted
Consolidated Balance Sheet				
Current assets			Current liabilities	
Receivables, net ⁽¹⁾	10,416	8,267	Contract liabilities ^{(2), (3), (4)}	– 2,908
Contract assets ⁽¹⁾	–	2,149	Billings in excess of sales ⁽²⁾	1,251 –
Inventories, net ⁽³⁾	5,059	5,255	Advances from customers ^{(2), (3)}	1,367 –
			Other current liabilities ⁽⁴⁾	4,385 4,291
Total assets	43,262	43,458	Total liabilities	27,913 28,109

(1) \$2,149 million of unbilled receivables previously included in Receivables, have been reclassified to Contract assets.

(2) Amounts previously presented as billings in excess of sales and advances from customers, have been reclassified to Contract liabilities.

(3) \$196 million of advances from customers, previously recorded net within Inventories, have been reclassified to advances from customers and recorded within Contract liabilities.

(4) Certain amounts recorded as deferred revenues totaling \$94 million, have been reclassified from Other current liabilities to Contract liabilities.

Other than the reclassifications of 2017 balances in the table above and the additional disclosure requirements, the impact of the adoption on the Company's Interim Consolidated Financial Information for the six and three months ended June 30, 2018, was not significant.

Income taxes – Intra-entity transfers of assets other than inventory

In January 2018, the Company adopted an accounting standard update requiring it to recognize the income tax consequences of an intra-entity transfer of an asset other than inventory when the transfer occurs instead of when the asset has been sold to an outside party. This update was applied on a modified retrospective basis and resulted in a net reduction in deferred tax assets of \$201 million with a corresponding reduction in retained earnings.

Improving the presentation of net periodic pension cost and net periodic postretirement benefit cost

In January 2018, the Company adopted an accounting standard update which changes how employers that sponsor defined benefit pension plans and other postretirement plans present the net periodic benefit cost in the income statement. Under this standard, the Company is required to report the service cost component in the same line item or items as other compensation costs arising from services rendered by the pertinent employees during the period. Other components of net periodic benefit cost are required to be presented in the income statement separately from the service cost component and outside the subtotal of income from operations. Under the amendment only the current service cost component is allowed to be capitalized as a cost of internally manufactured inventory or a self-constructed asset. This update was applied retrospectively for the presentation requirements, and prospectively for the capitalization of the current service cost component requirements. The Company has used the practical expedient, as the amount of other components of net periodic benefit cost capitalized in inventory for prior periods is not significant.

For the six and three months ended June 30, 2017, the Company reclassified \$14 million and \$7 million, respectively, of income and presented it outside of income from operations relating to net periodic pension costs.

Recognition and measurement of financial assets and financial liabilities

In January 2018, the Company adopted two accounting standard updates enhancing the reporting model for financial instruments, which include amendments to address aspects of recognition, measurement, presentation and disclosure. The Company is required to measure equity investments (except those accounted for under the equity method) at fair value with changes in fair value recognized in net income. The adoption of these updates resulted in the reclassification of the net cumulative unrealized gains on available-for-sale equity securities of \$9 million (net of tax) at December 31, 2017 from Total accumulated comprehensive loss to Retained earnings on January 1, 2018.

Classification of certain cash receipts and cash payments in the statement of cash flows

In January 2018, the company adopted an accounting standard update which clarifies how certain cash receipts and cash payments, including debt prepayment or extinguishment costs, the settlement of zero coupon debt instruments, contingent consideration paid after a business combination, proceeds from insurance settlements, distributions from certain equity method investees and beneficial interests obtained in a financial asset securitization, should be presented and classified in the statement of cash flows. This update was applied retrospectively and did

not have a significant impact on the consolidated financial statements.

Statement of cash flows - Restricted cash

In January 2018, the Company adopted an accounting standard update which clarifies the classification and presentation of changes in restricted cash on the statement of cash flows. It requires the inclusion of cash and cash equivalents that have restrictions on withdrawal or use in total cash and cash equivalents on the statement of cash flows. This update did not have a significant impact on the consolidated financial statements.

Clarifying the definition of a business

In January 2018, the Company adopted an accounting standard update which narrows the definition of a business. It also provides a framework for determining whether a set of transferred assets and activities involves a business. This update was applied prospectively and did not have a significant impact on the consolidated financial statements.

Clarifying the scope of asset derecognition guidance and accounting for partial sales of nonfinancial assets

In January 2018, the Company adopted an accounting standard update which clarifies the scope of asset derecognition guidance, adds guidance for partial sales of nonfinancial assets and clarifies recognizing gains and losses from the transfer of nonfinancial assets in contracts with noncustomers. This update was applied retrospectively and did not have a significant impact on the consolidated financial statements.

Compensation—Stock Compensation

In January 2018, the Company adopted an accounting standard update which clarifies when to account for a change to the terms or conditions of a share-based payment award as a modification. Under this update, modification accounting is required only if the fair value, the vesting conditions, or the classification of the award (as equity or liability) changes as a result of the change in terms or conditions. This update was applied prospectively and did not have a significant impact on the consolidated financial statements.

Applicable for future periods

Leases

In February 2016, an accounting standard update was issued that requires lessees to recognize lease assets and corresponding lease liabilities on the balance sheet for all leases with terms of more than 12 months. The update, which supersedes existing lease guidance, will continue to classify leases as either finance or operating, with the classification determining the pattern of expense recognition in the income statement. This update is effective for the Company for annual and interim periods beginning January 1, 2019, and is applicable on a modified retrospective basis with various optional practical expedients.

The Company currently expects the update will increase total assets and total liabilities by approximately \$1.5 billion. The Company continues to evaluate the impacts of the adoption of this update and therefore the expected impacts are subject to change.

Measurement of credit losses on financial instruments

In June 2016, an accounting standard update was issued which replaces the existing incurred loss impairment methodology for most financial assets with a new “current expected credit loss” model. The new model will result in the immediate recognition of the estimated credit losses expected to occur over the remaining life of financial assets such as trade and other receivables, held-to-maturity debt securities, loans and other instruments. Credit losses relating to available-for-sale debt securities will be measured in a manner similar to current GAAP, except that the losses will be recorded through an allowance for credit losses rather than as a direct write-down of the security.

This update is effective for the Company for annual and interim periods beginning January 1, 2020, with early adoption permitted for annual and interim periods beginning January 1, 2019. The Company is currently evaluating the impact of this update on its consolidated financial statements.

Derivatives and Hedging—Targeted Improvements to Accounting for Hedging Activities

In August 2017, an accounting standard update was issued which expands and refines hedge accounting for both financial and non-financial risk components, aligns the recognition and presentation of the effects of hedging instruments and hedge items in the financial statements, and includes certain targeted improvements to ease the application of current guidance related to the assessment of hedge effectiveness. This update is effective for the Company for annual and interim periods beginning January 1, 2019. For cash flow and net investment hedges as of the adoption date, the guidance requires a modified retrospective approach. The amended presentation and disclosure guidance is required only prospectively. The Company will adopt this update as of January 1, 2019, and is currently evaluating the impact of this update on its consolidated financial statements.

Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income

In February 2018, an accounting standard update was issued which allows a reclassification of the stranded tax effects in accumulated other comprehensive income resulting from the Tax Cuts and Jobs Act of 2017 to retained earnings. This update is effective for the Company for annual and interim periods beginning January 1, 2019, with early adoption in any interim period permitted. The updated guidance is to be applied in the period of adoption or retrospectively to each period in which the effect of the Tax Cuts and Jobs Act related to items remaining in accumulated other comprehensive income are recognized. The Company is currently evaluating the impact of this update on its consolidated financial statements.

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Note 3**Acquisitions and Divestments****Acquisitions**

Acquisitions were as follows:

	Six months ended June 30, 2018
(\$ in millions, except number of acquired businesses)	
Acquisitions (net of cash acquired) ⁽¹⁾	2,498
Aggregate excess of purchase price over fair value of net assets acquired ⁽²⁾	1,367
Number of acquired businesses	1

(1) Excluding changes in cost and equity accounted companies

(2) Recorded as goodwill.

In the table above, the “Acquisitions” and “Aggregate excess of purchase price over fair value of net assets acquired” amounts for the six months ended June 30, 2018, relate primarily to the acquisition of GE Industrial Solutions (GEIS). Acquisitions for the six months ended June 30, 2017, were not significant.

Acquisitions of controlling interests have been accounted for under the acquisition method and have been included in the Company’s Consolidated Financial Statements since the date of acquisition.

While the Company uses its best estimates and assumptions as part of the purchase price allocation process to value assets acquired and liabilities assumed at the acquisition date, the purchase price allocation for acquisitions is preliminary for up to 12 months after the acquisition date and is subject to refinement as more detailed analyses are completed and additional information about the fair values of the assets and liabilities becomes available.

On June 30, 2018, the Company acquired through numerous share and asset transactions substantially all the revenues, assets and liabilities of GEIS, GE's global electrification solutions business. GEIS, headquartered in Atlanta, United States, provides technologies that distribute and control electricity and support the commercial, data center, health care, mining, renewable energy, oil and gas, water and telecommunications sectors. The resulting cash outflows for the Company amounted to \$2,498 million (net of cash acquired of \$178 million). The acquisition strengthens the Company's global position in electrification and expands its access to the North American market through strong customer relationships, large installed base and extensive distribution networks and consequently the goodwill acquired represents expected operating synergies and cost savings as well as intangible assets that are not separable such as employee know-how and expertise. Given the timing and complexity of the acquisition, the presentation of GEIS in the Company's Financial Statements, including the allocation of the purchase price, is preliminary and likely to change in future periods.

The aggregate preliminary allocation of the purchase consideration for business acquisitions (including measurement period adjustments) in the six months ended June 30, 2018, was as follows:

(\$ in millions)	Allocated amounts	Weighted-average useful life
Technology	87	7 years
Customer relationships	214	14 years
Trade names	122	13 years
Supply agreement	34	13 years
Intangible assets	457	
Fixed assets	427	
Deferred tax liabilities	(177)	
Inventory	454	
Other assets and liabilities, net	(30)	
Goodwill ⁽¹⁾	1,367	
Total consideration (net of cash acquired) ⁽²⁾	2,498	

(1) The Company does not expect the majority of the goodwill recognized to be deductible for income tax purposes.

(2) Primarily relates to the acquisition of GEIS.

Business divestments

There were no significant gains or losses recognized relating to divestments in the six and three months ended June 30, 2018. For the six and three months ended June 30, 2017, the Company recorded net gains (including transaction costs) of \$331 million and net losses (including transaction costs) of \$7 million in "Other income (expense), net".

For the six months ended June 30, 2017, an associated tax expense of \$28 million relating to the divestment of consolidated businesses was recorded in "Provision for taxes". These are primarily due to the divestment in March 2017, of the Company's high-voltage cable system and cable accessories businesses (the Cables business).

The Company has retained certain obligations of the Cables business and thus the Company remains directly or indirectly liable for these liabilities which existed at the date of the divestment. Subsequent to the divestment, in six months ended June 30, 2017, the Company recorded a loss of \$94 million for changes in the amounts recorded for these obligations. In addition, the Company has provided certain performance guarantees to third parties which guarantee the performance of the buyer under existing contracts with customers as well as for certain capital expenditures of the divested business (see Note 7).

Changes in total goodwill were as follows:

(\$ in millions)	Total Goodwill
Balance at January 1, 2017	9,501
Goodwill acquired during the year ⁽¹⁾	1,337
Goodwill allocated to disposals ⁽²⁾	(2)
Exchange rate differences and other	363
Balance at December 31, 2017	11,199
Goodwill acquired during the year ⁽³⁾	1,367
Goodwill allocated to disposals	(1)
Exchange rate differences and other	(163)
Balance at June 30, 2018	12,402

(1) Includes primarily goodwill in respect of B&R, acquired in July 2017, which has been allocated to the Industrial Automation operating segment.

(2) Goodwill allocated to the high-voltage cable system business sold in March 2017, within Corporate and Other (formerly reported in the Power Grids operating segment) was reported as held-for-sale at December 31, 2016.

(3) Includes primarily goodwill in respect of GEIS, acquired in June 2018, which has been allocated to the Electrification Products operating segment.

□

Note 4

Cash and equivalents, marketable securities and short-term investments

Cash and equivalents, marketable securities and short-term investments consisted of the following:

June 30, 2018						Mark
		Gross	Gross		Cash and	sec
(\$ in millions)	Cost basis	unrealized	unrealized	Fair value	equivalents	and short
Cash	1,776			1,776	1,776	invest
Time deposits	1,546			1,546	1,507	
Other short-term investments	297			297	—	
Debt securities available-for-sale:						
U.S. government obligations	212	—	(5)	207	—	
Corporate	92	—	(2)	90	—	
Equity securities available-for-sale	147	14	—	161	—	
Total	4,070	14	(7)	4,077	3,283	

December 31, 2017						Mar
		Gross	Gross		Cash and	se
(\$ in millions)	Cost basis	unrealized	unrealized	Fair value	equivalents	and short
Cash	1,963			1,963	1,963	invest
Time deposits	2,853			2,853	2,563	
Other short-term investments	305			305	—	
Debt securities available-for-sale:						
U.S. government obligations	127	—	(2)	125	—	
Other government obligations	2	—	—	2	—	
Corporate	215	1	(1)	215	—	
Equity securities available-for-sale	152	13	—	165	—	
Total	5,617	14	(3)	5,628	4,526	

Other short-term investments at June 30, 2018, and December 31, 2017, are receivables of \$297 million and \$305 million, respectively, representing reverse repurchase agreements. These collateralized lendings, made to a financial institution, have maturity dates of less than one year.

□

Note 5

Derivative financial instruments

The Company is exposed to certain currency, commodity, interest rate and equity risks arising from its global operating, financing and investing activities. The Company uses derivative instruments to reduce and manage the economic impact of these exposures.

Currency risk

Due to the global nature of the Company's operations, many of its subsidiaries are exposed to currency risk in their operating activities from entering into transactions in currencies other than their functional currency. To manage such currency risks, the Company's policies require the subsidiaries to hedge their foreign currency exposures from binding sales and purchase contracts denominated in foreign currencies. For forecasted foreign currency denominated sales of standard products and the related foreign currency denominated purchases, the Company's policy is to hedge up to a maximum of 100 percent of the forecasted foreign currency denominated exposures, depending on the length of the forecasted exposures. Forecasted exposures greater than 12 months are not hedged. Forward foreign exchange contracts are the main instrument used to protect the Company against the volatility of future cash flows (caused by changes in exchange rates) of contracted and forecasted sales and purchases denominated in foreign currencies. In addition, within its treasury operations, the Company primarily uses foreign exchange swaps and forward foreign exchange contracts to manage the currency and timing mismatches arising in its liquidity management activities.

Commodity risk

Various commodity products are used in the Company's manufacturing activities. Consequently it is exposed to volatility in future cash flows arising from changes in commodity prices. To manage the price risk of commodities, the Company's policies require that the subsidiaries hedge the commodity price risk exposures from binding contracts, as well as at least 50 percent (up to a maximum of 100 percent) of the forecasted commodity exposure over the next 12 months or longer (up to a maximum of 18 months). Primarily swap contracts

are used to manage the associated price risks of commodities.

Interest rate risk

The Company has issued bonds at fixed rates. Interest rate swaps are used to manage the interest rate risk associated with certain debt and generally such swaps are designated as fair value hedges. In addition, from time to time, the Company uses instruments such as interest rate swaps, interest rate futures, bond futures or forward rate agreements to manage interest rate risk arising from the Company's balance sheet structure but does not designate such instruments as hedges.

Equity risk

The Company is exposed to fluctuations in the fair value of its warrant appreciation rights (WARs) issued under its management incentive plan. A WAR gives its holder the right to receive cash equal to the market price of an equivalent listed warrant on the date of exercise. To eliminate such risk, the Company has purchased cash-settled call options, indexed to the shares of the Company, which entitle the Company to receive amounts equivalent to its obligations under the outstanding WARs.

Volume of derivative activity

In general, while the Company's primary objective in its use of derivatives is to minimize exposures arising from its business, certain derivatives are designated and qualify for hedge accounting treatment while others either are not designated or do not qualify for hedge accounting.

Foreign exchange and interest rate derivatives

The gross notional amounts of outstanding foreign exchange and interest rate derivatives (whether designated as hedges or not) were as follows:

Type of derivative (\$ in millions)	Total notional amounts at		
	June 30, 2018	December 31, 2017	June 30, 2017
Foreign exchange contracts	16,390	17,280	16,387
Embedded foreign exchange derivatives	1,676	1,641	2,089
Interest rate contracts	3,934	5,706	5,197

Derivative commodity contracts

The Company uses derivatives to hedge its direct or indirect exposure to the movement in the prices of commodities which are primarily copper, silver, aluminum and oil. The following table shows the notional amounts of outstanding derivatives (whether designated as hedges or not), on a net basis, to reflect the Company's requirements for these commodities:

Type of derivative	Unit	Total notional amounts at		
		June 30, 2018	December 31, 2017	June 30, 2017
Copper swaps	metric tonnes	49,886	44,145	39,292
Silver swaps	ounces	2,213,132	1,966,729	1,604,444
Aluminum swaps	metric tonnes	9,850	7,700	5,550
Crude oil swaps	barrels	120,139	170,331	153,067

Equity derivatives

At June 30, 2018, December 31, 2017, and June 30, 2017, the Company held 33 million, 37 million and 37 million cash-settled call options indexed to ABB Ltd shares (conversion ratio 5:1) with a total fair value of \$15 million, \$42 million and \$33 million, respectively.

Cash flow hedges

As noted above, the Company mainly uses forward foreign exchange contracts to manage the foreign exchange risk of its operations, commodity swaps to manage its commodity risks and cash-settled call options to hedge its WAR liabilities. Where such instruments are designated and qualify as cash flow hedges, the effective portion of the changes in their fair value is recorded in "Accumulated other comprehensive loss" and subsequently reclassified into earnings in the same line item and in the same period as the underlying hedged transaction affects earnings. Any ineffectiveness in the hedge relationship, or hedge component excluded from the assessment of effectiveness, is recognized in earnings during the current period.

At June 30, 2018, and December 31, 2017, "Accumulated other comprehensive loss" included net unrealized losses of \$7 million and net unrealized gains of \$12 million, respectively, net of tax, on derivatives designated as cash flow hedges. Of the amount at June 30, 2018, net losses of \$2 million are expected to be reclassified to earnings in the following 12 months. At June 30, 2018, the longest maturity of a derivative classified as a cash flow hedge was 67 months.

The amount of gains or losses, net of tax, reclassified into earnings due to the discontinuance of cash flow hedge accounting was not significant in the six and three months ended June 30, 2018 and 2017.

The pre-tax effects of derivative instruments, designated and qualifying as cash flow hedges, on "Accumulated other comprehensive loss" (OCI) and the Consolidated Income Statements were as follows:

(\$ in millions)	Gains (losses) recognized in OCI on derivatives (effective portion)		Location	Gains (losses) reclassified from OCI into income (effective portion)	
	2018	2017		2018	2017
Six months ended June 30,					
Type of derivative					

Foreign exchange contracts	(3)	10	Total revenues	3	(3)
			Total cost of sales	—	3
Commodity contracts	(5)	2	Total cost of sales	3	4
Cash-settled call options	(25)	12	SG&A expenses ⁽¹⁾	(17)	9
Total	(33)	24		(11)	13

(\$ in millions)	Gains (losses) recognized in OCI on derivatives (effective portion)		Location	Gains (losses) reclassified from OCI into income (effective portion)	
	2018	2017		2018	2017
Three months ended June 30,					
Type of derivative					
Foreign exchange contracts	(5)	8	Total revenues	1	(1)
			Total cost of sales	—	—
Commodity contracts	(1)	—	Total cost of sales	1	2
Cash-settled call options	(4)	4	SG&A expenses ⁽¹⁾	(3)	3
Total	(10)	12		(1)	4

(1) SG&A expenses represent “Selling, general and administrative expenses”.

The amounts in respect of gains (losses) recognized in income for hedge ineffectiveness and amounts excluded from effectiveness testing were not significant for the six and three months ended June 30, 2018 and 2017.

Net derivative losses of \$13 million and net derivative gains of \$10 million, both net of tax, were reclassified from “Accumulated other comprehensive loss” to earnings during the six months ended June 30, 2018 and 2017, respectively. During the three months ended June 30, 2018 and 2017, net derivative losses of \$2 million and net derivative gains of \$3 million, both net of tax, respectively, were reclassified from “Accumulated other comprehensive loss” to earnings.

Fair value hedges

To reduce its interest rate exposure arising primarily from its debt issuance activities, the Company uses interest rate swaps. Where such instruments are designated as fair value hedges, the changes in the fair value of these instruments, as well as the changes in the fair value of the risk component of the underlying debt being hedged, are recorded as offsetting gains and losses in “Interest and other finance expense”. Hedge ineffectiveness of instruments designated as fair value hedges for the six and three months ended June 30, 2018 and 2017, was not significant.

The effect of interest rate contracts, designated and qualifying as fair value hedges, on the Consolidated Income Statements was as follows:

	Six months ended June 30, 2018 2017		Three months ended June 30, 2018 2017	
(\$ in millions)				
Gains (losses) recognized in Interest and other finance expense:				
- on derivatives designated as fair value hedges	(20)	—	5	(1)
- on hedged item	20	3	(6)	3

Derivatives not designated in hedge relationships

Derivative instruments that are not designated as hedges or do not qualify as either cash flow or fair value hedges are economic hedges used for risk management purposes. Gains and losses from changes in the fair values of such derivatives are recognized in the same line in the income statement as the economically hedged transaction.

Furthermore, under certain circumstances, the Company is required to split and account separately for foreign currency derivatives that are embedded within certain binding sales or purchase contracts denominated in a currency other than the functional currency of the subsidiary and the counterparty.

The gains (losses) recognized in the Consolidated Income Statements on derivatives not designated in hedging relationships were as follows:

Type of derivative not designated as a hedge		Gains (losses) recognized in income			
		Six months ended June 30,		Three months ended June 30,	
(\$ in millions)	Location	2018	2017	2018	2017
Foreign exchange contracts	Total revenues	(231)	167	(210)	60
	Total cost of sales	86	(26)	60	34
	SG&A expenses ⁽¹⁾	4	(10)	11	(7)
	Non-order related research and development	—	—	1	2
	Other income (expense), net	—	(1)	—	—
	Interest and other finance expense	37	13	12	19
Embedded foreign exchange contracts	Total revenues	67	(23)	51	(2)
	Total cost of sales	(3)	—	(2)	(1)
	SG&A expenses ⁽¹⁾	2	5	1	3
Commodity contracts	Total cost of sales	(15)	18	7	(8)
Other	Interest and other finance expense	8	(3)	5	2
Total		(45)	140	(64)	102

(1) SG&A expenses represent “Selling, general and administrative expenses”.

The fair values of derivatives included in the Consolidated Balance Sheets were as follows:

	June 30, 2018	
	Derivative assets	
	Current in	Non-current in
(\$ in millions)	"Other current assets"	"Other non-current assets"
Derivatives designated as hedging instruments:		
Foreign exchange contracts	1	—
Commodity contracts	—	—
Interest rate contracts	—	25
Cash-settled call options	8	7
Total	9	32
Derivatives not designated as hedging instruments:		
Foreign exchange contracts	152	22
Commodity contracts	14	2
Cross-currency interest rate swaps	5	—
Embedded foreign exchange derivatives	48	31
Total	219	55
Total fair value	228	87

	December	
	Derivative assets	
	Current in	Non-current in
(\$ in millions)	“Other current assets”	“Other non-current assets”
Derivatives designated as hedging instruments:		
Foreign exchange contracts	4	–
Commodity contracts	6	–
Interest rate contracts	–	42
Cash-settled call options	25	16
Total	35	58
Derivatives not designated as hedging instruments:		
Foreign exchange contracts	142	25
Commodity contracts	35	1
Cross-currency interest rate swaps	–	–
Cash-settled call options	–	1
Embedded foreign exchange derivatives	32	16
Total	209	43
Total fair value	244	101

Close-out netting agreements provide for the termination, valuation and net settlement of some or all outstanding transactions between two counterparties on the occurrence of one or more pre-defined trigger events.

Although the Company is party to close-out netting agreements with most derivative counterparties, the fair values in the tables above and in the Consolidated Balance Sheets at June 30, 2018, and December 31, 2017, have been presented on a gross basis.

The Company’s netting agreements and other similar arrangements allow net settlements under certain conditions. At June 30, 2018, and December 31, 2017, information related to these offsetting arrangements was as follows:

	June 30, 2018			
(\$ in millions)	Gross amount of recognized assets	Derivative liabilities eligible for set-off in case of default	Cash collateral received	Non-cash collateral received
Type of agreement or similar arrangement				Net as presented
Derivatives	236	(160)	–	–
Reverse repurchase agreements	297	–	–	(297)
Total	533	(160)	–	(297)

(\$ in millions) **June 30, 2018**

Type of agreement or similar arrangement	Gross amount of recognized liabilities	Derivative liabilities eligible for set-off in case of default	Cash collateral pledged	Non-cash collateral pledged	Net liability exposure
Derivatives	302	(160)	–	–	142
Total	302	(160)	–	–	142

(\$ in millions)

December 31, 2017					
Type of agreement or similar arrangement	Gross amount of recognized assets	Derivative liabilities eligible for set-off in case of default	Cash collateral received	Non-cash collateral received	Net liability exposure
Derivatives	297	(172)	–	–	–
Reverse repurchase agreements	305	–	–	–	(305)
Total	602	(172)	–	–	(305)

(\$ in millions)

December 31, 2017					
Type of agreement or similar arrangement	Gross amount of recognized liabilities	Derivative liabilities eligible for set-off in case of default	Cash collateral pledged	Non-cash collateral pledged	Net liability exposure
Derivatives	269	(172)	–	–	97
Total	269	(172)	–	–	97



Note 6

Fair values

The Company uses fair value measurement principles to record certain financial assets and liabilities on a recurring basis and, when necessary, to record certain non-financial assets at fair value on a non-recurring basis, as well as to determine fair value disclosures for certain financial instruments carried at amortized cost in the financial statements. Financial assets and liabilities recorded at fair value on a recurring basis include foreign currency, commodity and interest rate derivatives, as well as cash-settled call options and available-for-sale securities. Non-financial assets recorded at fair value on a non-recurring basis include long-lived assets that are reduced to their estimated fair value due to impairments.

Fair value is the price that would be received when selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. In determining fair value, the Company uses various valuation techniques including the market approach (using observable market data for identical or similar assets and liabilities), the income approach (discounted cash flow models) and the cost approach (using costs a market participant would incur to develop a comparable asset). Inputs used to determine the fair value of assets and liabilities are defined by a three-level hierarchy, depending on the reliability of those inputs. The Company has categorized its financial assets and liabilities and non-financial assets measured at fair value within this hierarchy based on whether the inputs to the valuation technique are observable or unobservable. An observable input is based on market data obtained from independent sources, while an unobservable input reflects the Company's assumptions about market data.

The levels of the fair value hierarchy are as follows:

Level 1: Valuation inputs consist of quoted prices in an active market for identical assets or liabilities (observable quoted prices). Assets and liabilities valued using Level 1 inputs include certain actively traded debt securities.

Level 2: Valuation inputs consist of observable inputs (other than Level 1 inputs) such as actively quoted prices for similar assets, quoted prices in inactive markets and inputs other than quoted prices such as interest rate yield curves, credit spreads, or inputs derived from other observable data by interpolation, correlation, regression or other means. The adjustments applied to quoted prices or the inputs used in valuation models may be both observable and unobservable. In these cases, the fair value measurement is classified as Level 2 unless the unobservable portion of the adjustment or the unobservable input to the

valuation model is significant, in which case the fair value measurement would be classified as Level 3. Assets and liabilities valued or disclosed using Level 2 inputs include investments in certain funds, reverse repurchase agreements, certain debt securities that are not actively traded, interest rate swaps, commodity swaps, cash-settled call options, forward foreign exchange contracts, foreign exchange swaps and forward rate agreements, time deposits, as well as financing receivables and debt.

Level 3: Valuation inputs are based on the Company's assumptions of relevant market data (unobservable input).

Whenever quoted prices involve bid-ask spreads, the Company ordinarily determines fair values based on mid-market quotes. However, for the purpose of determining the fair value of cash-settled call options serving as hedges of the Company's management incentive plan, bid prices are used.

When determining fair values based on quoted prices in an active market, the Company considers if the level of transaction activity for the financial instrument has significantly decreased, or would not be considered orderly. In such cases, the resulting changes in valuation techniques would be disclosed. If the market is considered disorderly or if quoted prices are not available, the Company is required to use another valuation technique, such as an income approach.

Recurring fair value measures

The fair values of financial assets and liabilities measured at fair value on a recurring basis were as follows:

(\$ in millions)	Level 1	Level 2	Level 3
Assets			
Available-for-sale securities in "Marketable securities and short-term investments":			
Equity securities	–	161	–
Debt securities—U.S. government obligations	207	–	–
Debt securities—Corporate	–	90	–
Derivative assets—current in "Other current assets"	–	228	–
Derivative assets—non-current in "Other non-current assets"	–	87	–
Total	207	566	–
Liabilities			
Derivative liabilities—current in "Other current liabilities"	–	250	–
Derivative liabilities—non-current in "Other non-current liabilities"	–	66	–
Total	–	316	–

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(\$ in millions)	December 31, 2019	
	Level 1	Level 2
Assets		
Available-for-sale securities in “Marketable securities and short-term investments”:		
Equity securities	–	165
Debt securities—U.S. government obligations	125	–
Debt securities—Other government obligations	–	2
Debt securities—Corporate	–	215
Receivable in “Other non-current assets”:		
Receivable under securities lending arrangement	79	–
Derivative assets—current in “Other current assets”	–	244
Derivative assets—non-current in “Other non-current assets”	–	101
Total	204	727
Liabilities		
Derivative liabilities—current in “Other current liabilities”	–	223
Derivative liabilities—non-current in “Other non-current liabilities”	–	75
Total	–	298

The Company uses the following methods and assumptions in estimating fair values of financial assets and liabilities measured at fair value on a recurring basis:

- **Available-for-sale securities in “Marketable securities and short-term investments” and “Other non-current assets”:** If quoted market prices in active markets for identical assets are available, these are considered Level 1 inputs; however, when markets are not active, these inputs are considered Level 2. If such quoted market prices are not available, fair value is determined using market prices for similar assets or present value techniques, applying an appropriate risk-free interest rate adjusted for nonperformance risk. The inputs used in present value techniques are observable and fall into the Level 2 category. The fair value of the receivable under the securities lending arrangement has been determined based on the fair value of the security lent.
- **Derivatives:** The fair values of derivative instruments are determined using quoted prices of identical instruments from an active market, if available (Level 1). If quoted prices are not available, price quotes for similar instruments, appropriately adjusted, or present value techniques, based on available market data, or option pricing models are used. Cash-settled call options hedging the Company’s WAR liability are valued based on bid prices of the equivalent listed warrant. The fair values obtained using price quotes for similar instruments or valuation techniques represent a Level 2 input unless significant unobservable inputs are used.

Non-recurring fair value measures

There were no significant non-recurring fair value measurements during the six and three months ended June 30, 2018 and 2017.

Disclosure about financial instruments carried on a cost basis

The fair values of financial instruments carried on a cost basis were as follows:

(\$ in millions)	June 30, 2018		
	Carrying value	Level 1	Level 2
Assets			
Cash and equivalents (excluding available-for-sale securities with original maturities up to 3 months):			
Cash	1,776	1,776	–
Time deposits	1,507	–	1,507
Marketable securities and short-term investments (excluding available-for-sale securities):			
Time deposits	39	–	39
Receivables under reverse repurchase agreements	297	–	297
Other non-current assets:			
Loans granted	34	–	36
Restricted time deposits	37	37	–
Liabilities			
Short-term debt and current maturities of long-term debt (excluding capital lease obligations)	3,756	1,870	1,886
Long-term debt (excluding capital lease obligations)	6,482	5,851	728

	December 31, 2017		
(\$ in millions)	Carrying value	Level 1	Level 2
Assets			
Cash and equivalents (excluding available-for-sale securities with original maturities up to 3 months):			
Cash	1,963	1,963	–
Time deposits	2,563	–	2,563
Marketable securities and short-term investments (excluding available-for-sale securities):			
Time deposits	290	–	290
Receivables under reverse repurchase agreements	305	–	305
Other non-current assets:			
Loans granted	32	–	33
Restricted time deposits	38	38	–
Liabilities			
Short-term debt and current maturities of long-term debt (excluding capital lease obligations)	704	400	304
Long-term debt (excluding capital lease obligations)	6,569	6,046	775

The Company uses the following methods and assumptions in estimating fair values of financial instruments carried on a cost basis:

- Cash and equivalents (excluding available-for-sale securities with original maturities up to 3 months), and Marketable securities and short-term investments (excluding available-for-sale securities): The carrying amounts approximate the fair values as the items are short-term in nature.
- Other non-current assets: Includes (i) loans granted whose fair values are based on the carrying amount adjusted using a present value technique to reflect a premium or discount based on current market interest rates (Level 2 inputs), and (ii) restricted time deposits whose fair values approximate the carrying amounts (Level 1 inputs).
- Short-term debt and current maturities of long-term debt (excluding capital lease obligations): Short-term debt includes commercial paper, bank borrowings and overdrafts. The carrying amounts of short-term debt and current maturities of long-term debt, excluding capital lease obligations, approximate their fair values.
- Long-term debt (excluding capital lease obligations): Fair values of bonds are determined using quoted market prices (Level 1 inputs), if available. For bonds without available quoted market prices and other long-term debt, the fair values are determined using a discounted cash flow methodology based upon borrowing rates of similar debt instruments and reflecting appropriate adjustments for non-performance risk (Level 2 inputs).



Note 7

Commitments and contingencies

Contingencies—Regulatory, Compliance and Legal

Antitrust

In April 2014, the European Commission announced its decision regarding its investigation of anticompetitive practices in the cables industry and granted the Company full immunity from fines under the European Commission's leniency program.

In Brazil, the Company's Gas Insulated Switchgear business is under investigation by the Brazilian Antitrust Authority (CADE) for alleged anticompetitive practices. In addition, the CADE has opened an investigation into certain other power businesses of the Company, including flexible alternating current transmission systems (FACTS) and power transformers. With respect to these matters, management is cooperating fully with the authorities. An informed judgment about the outcome of these investigations or the amount of potential loss or range of loss for the Company, if any, relating to these investigations cannot be made at this stage.

Suspect payments

As a result of an internal investigation, the Company self-reported to the Securities and Exchange Commission (SEC) and the Department of Justice (DoJ) in the United States as well as to the Serious Fraud Office (SFO) in the United Kingdom concerning certain of its past dealings with Unaoil and its subsidiaries, including alleged improper payments made by these entities to third parties. The SFO has commenced an investigation into this matter. The Company is cooperating fully with the authorities. At this time, it is not possible for the Company to make an informed judgment about the outcome of these matters.

General

In addition, the Company is aware of proceedings, or the threat of proceedings, against it and others in respect of private claims by customers and other third parties with regard to certain actual or alleged anticompetitive practices. Also, the Company is subject to other various legal proceedings, investigations, and claims that have not yet been resolved. With respect to the above mentioned regulatory matters and commercial litigation contingencies, the Company will bear the costs of the continuing investigations and any related legal proceedings.

Liabilities recognized

At June 30, 2018, and December 31, 2017, the Company had aggregate liabilities of \$236 million and \$233 million, respectively, included in “Other provisions” and “Other non-current liabilities”, for the above regulatory, compliance and legal contingencies, and none of the individual liabilities recognized was significant. As it is not possible to make an informed judgment on the outcome of certain matters and as it is not possible, based on information currently available to management, to estimate the maximum potential liability on other matters, there could be material adverse outcomes beyond the amounts accrued.

Guarantees

General

The following table provides quantitative data regarding the Company’s third-party guarantees. The maximum potential payments represent a “worst-case scenario”, and do not reflect management’s expected outcomes.

Maximum potential payments (\$ in millions)	June 30, 2018	December 31, 2017
Performance guarantees	1,607	1,775
Financial guarantees	12	17
Indemnification guarantees	63	72
Total	1,682	1,864

The carrying amount of liabilities recorded in the Consolidated Balance Sheets reflects the Company’s best estimate of future payments, which it may incur as part of fulfilling its guarantee obligations. In respect of the above guarantees, the carrying amounts of liabilities at June 30, 2018, and December 31, 2017, were not significant.

The Company is party to various guarantees providing financial or performance assurances to certain third parties. These guarantees, which have various maturities up to 2027, mainly consist of performance guarantees whereby (i) the Company guarantees the performance of a third party’s product or service according to the terms of a contract and (ii) as member of a consortium/joint-venture that includes third parties, the Company guarantees not only its own performance but also the work of third parties. Such guarantees may include guarantees that a project will be completed within a specified time. If the third party does not fulfill the obligation, the Company will compensate the guaranteed party in cash or in kind. The original maturity dates for the majority of these performance guarantees range from one to eight years.

In conjunction with the divestment of the high-voltage cable and cables accessories businesses, the Company has entered into various performance guarantees with other parties with respect to certain liabilities of the divested business. At June 30, 2018 and December 31, 2017, the maximum potential payable under these guarantees amounts to \$792 million and \$929 million, respectively, and these guarantees have various maturities ranging from one to ten years.

Commercial commitments

In addition, in the normal course of bidding for and executing certain projects, the Company has entered into standby letters of credit, bid/performance bonds and surety bonds (collectively “performance bonds”) with various financial institutions. Customers can draw on such performance bonds in the event that the Company does not fulfill its contractual obligations. The Company would then have an obligation to reimburse the financial institution for amounts paid under the performance bonds. At June 30, 2018, and December 31, 2017, the total outstanding performance bonds aggregated to \$7.5 billion and \$7.7 billion, respectively. There have been no significant amounts reimbursed to financial institutions under these types of arrangements in the six and three months ended June 30, 2018 and 2017.

Product and order-related contingencies

The Company calculates its provision for product warranties based on historical claims experience and specific review of certain contracts.

The reconciliation of the “Provisions for warranties”, including guarantees of product performance, was as follows:

(\$ in millions)

Balance at January 1,	2018
Net change in warranties due to acquisitions and divestments	1,237
Claims paid in cash or in kind	17
Net increase in provision for changes in estimates, warranties issued and warranties expired	(179)
Exchange rate differences	11
Balance at June 30,	(37)
	1,136

□

Note 8

Contract assets and liabilities

The following table provides information about Contracts assets and Contract liabilities with customers:

(\$ in millions)	June 30, 2018	December 31, 2017	June 30, 2017
Contract assets	2,281	2,149	2,310
Contract liabilities	2,757	2,908	3,033

Contract assets primarily relate to the Company's right to receive consideration for work completed but for which no invoice has been issued at the reporting date. Contract assets are transferred to receivables when rights to receive payment become unconditional.

Contract liabilities primarily relate to up-front advances received on orders from customers as well as amounts invoiced to customers in excess of revenues recognized predominantly on long-term projects. Contract liabilities are reduced as work is performed and as revenues are recognized.

The significant changes in the Contract assets and Contract liabilities balances were as follows:

(\$ in millions)

Revenue recognized, which was included in the Contract liabilities balance at Jan 1, 2018/2017
Additions to Contract liabilities - excluding amounts recognized as revenue during the period
Receivables recognized that were included in the Contract asset balance at Jan 1, 2018/2017

The Company considers unfulfilled orders (order backlog) from customers to be unsatisfied performance obligations. At June 30, 2018, unfulfilled orders were \$24,214 million and, of this amount, the Company expects to recognize approximately 53 percent in 2018, approximately 29 percent in 2019 and the balance thereafter.

□

Note 9

Debt

The Company's total debt at June 30, 2018, and December 31, 2017, amounted to \$10,447 million and \$7,447 million, respectively.

Short-term debt and current maturities of long-term debt

The Company's "Short-term debt and current maturities of long-term debt" consisted of the following:

(\$ in millions)	June 30, 2018	December 31, 2017
Short-term debt	1,937	327
Current maturities of long-term debt	1,849	411
Total	3,786	738

Short-term debt primarily represented issued commercial paper and short-term loans from various banks. At June 30, 2018, and December 31, 2017, \$905 million and \$259 million, respectively, was outstanding under the \$2 billion commercial paper program in the United States. In addition, at June 30, 2018, \$886 million was outstanding under the \$2 billion Euro-commercial paper program.

Long-term debt

The Company's long-term debt at June 30, 2018, and December 31, 2017, amounted to \$6,661 million and \$6,709 million, respectively.

Outstanding bonds (including maturities within the next 12 months) were as follows:

(in millions)	June 30, 2018			December 31, 2017		
	Nominal outstanding	Carrying value ⁽¹⁾		Nominal outstanding	Carrying value ⁽¹⁾	
Bonds:						
1.50% CHF Bonds, due 2018	CHF 350	\$ 352		CHF 350	\$ 358	
2.625% EUR Instruments, due 2019	EUR 1,250	\$ 1,455		EUR 1,250	\$ 1,493	
2.8% USD Notes, due 2020	USD 300	\$ 299				—
4.0% USD Notes, due 2021	USD 650	\$ 645		USD 650	\$ 644	
2.25% CHF Bonds, due 2021	CHF 350	\$ 371		CHF 350	\$ 378	
5.625% USD Notes, due 2021	USD 250	\$ 267		USD 250	\$ 270	
2.875% USD Notes, due 2022	USD 1,250	\$ 1,231		USD 1,250	\$ 1,256	
3.375% USD Notes, due 2023	USD 450	\$ 448				—
0.625% EUR Notes, due 2023	EUR 700	\$ 817		EUR 700	\$ 834	
0.75% EUR Notes, due 2024	EUR 750	\$ 871		EUR 750	\$ 889	
3.8% USD Notes, due 2028	USD 750	\$ 747				—
4.375% USD Notes, due 2042	USD 750	\$ 723		USD 750	\$ 723	
Total		\$ 8,226			\$ 6,845	

(1) USD carrying values include unamortized debt issuance costs, bond discounts or premiums, as well as adjustments for fair value hedge accounting, where appropriate.

In April 2018, the Company issued the following notes with a principal of:

- \$300 million, due 2020, paying interest semi-annually in arrears at a fixed rate of 2.8 percent per annum,
- \$450 million, due 2023, paying interest semi-annually in arrears at a fixed rate of 3.375 percent per annum, and

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- \$750 million, due 2028, paying interest semi-annually in arrears at a fixed rate of 3.8 percent per annum.

The aggregate net proceeds of these bond issues, after underwriting discount and other fees, amounted to \$1,494 million.

□

Note 10

Employee benefits

The Company operates defined benefit pension plans, defined contribution pension plans, and termination indemnity plans, in accordance with local regulations and practices. These plans cover a large portion of the Company's employees and provide benefits to employees in the event of death, disability, retirement, or termination of employment. Certain of these plans are multi-employer plans. The Company also operates other postretirement benefit plans including postretirement health care benefits, and other employee-related benefits for active employees including long-service award plans. The measurement date used for the Company's employee benefit plans is December 31. The funding policies of the Company's plans are consistent with the local government and tax requirements.

Net periodic benefit cost of the Company's defined benefit pension and other postretirement benefit plans consisted of the following:

(\$ in millions)	Defined pension benefits		Other postretirement benefits	
	2018	2017	2018	2017
Six months ended June 30,				
Operational pension cost:				
Service cost	108	122	–	–
Operational pension cost	108	122	–	–
Non-operational pension cost (credit):				
Interest cost	113	125	2	2
Expected return on plan assets	(212)	(202)	–	–
Amortization of prior service cost (credit)	(7)	18	(2)	(2)
Amortization of net actuarial loss	48	44	–	–
Curtailments, settlements and special termination benefits	–	1	–	–
Non-operational pension cost (credit)	(58)	(14)	–	–
Net periodic benefit cost	50	108	–	–

(\$ in millions)	Defined pension benefits		Other postretirement benefits	
	2018	2017	2018	2017
Three months ended June 30,				
Operational pension cost:				
Service cost	51	63	–	–
Operational pension cost	51	63	–	–
Non-operational pension cost (credit):				
Interest cost	54	64	1	1
Expected return on plan assets	(103)	(103)	–	–
Amortization of prior service cost (credit)	(3)	9	(1)	(1)
Amortization of net actuarial loss	24	22	–	–
Curtailments, settlements and special termination benefits	–	1	–	–
Non-operational pension cost (credit)	(28)	(7)	–	–
Net periodic benefit cost	23	56	–	–

The components of net periodic benefit cost other than the service cost component are included in the line “Non-operational pension (cost) credit” in the income statement.

Employer contributions were as follows:

(\$ in millions)	Defined pension benefits		Other postretirement benefits	
	2018	2017	2018	2017
Six months ended June 30,				
Total contributions to defined benefit pension and other postretirement benefit plans	95	95	4	4

(\$ in millions)	Defined pension benefits		Other postretirement benefits	
	2018	2017	2018	2017
Three months ended June 30,				
Total contributions to defined benefit pension and other postretirement benefit plans	49	48	2	2

The Company expects to make contributions totaling approximately \$218 million and \$11 million to its defined benefit pension plans and other postretirement benefit plans, respectively, for the full year 2018.

□

Note 11**Stockholders' equity**

In the six months ended June 30, 2018, the Company purchased on the open market an aggregate of 10 million of its own shares resulting in an increase in Treasury stock of \$249 million. Also in the first half of 2018, the Company delivered, out of treasury stock, 2.4 million shares for options exercised in connection with its Management Incentive Plan.

At the Annual General Meeting of Shareholders on March 29, 2018, shareholders approved the proposal of the Board of Directors to distribute 0.78 Swiss francs per share to shareholders. The declared dividend amounted to \$1,736 million and was paid in April 2018.

□

Note 12**Earnings per share**

Basic earnings per share is calculated by dividing income by the weighted-average number of shares outstanding during the period. Diluted earnings per share is calculated by dividing income by the weighted-average number of shares outstanding during the period, assuming that all potentially dilutive securities were exercised, if dilutive. Potentially dilutive securities comprise outstanding written call options, and outstanding options and shares granted subject to certain conditions under the Company's share-based payment arrangements.

Basic earnings per share

	Six months ended June 30,		Three months ended June 30,	
	2018	2017	2018	2017
(\$ in millions, except per share data in \$) Amounts attributable to ABB shareholders:				
Income from continuing operations, net of tax	1,250	1,250	673	524

Income (loss) from discontinued operations, net of tax	3	(1)	8	1
Net income	1,253	1,249	681	525

Weighted-average number of shares outstanding (in millions) 2,132 2,140 2,130 2,140

Basic earnings per share attributable to ABB shareholders:

Income from continuing operations, net of tax	0.59	0.58	0.32	0.24
Income (loss) from discontinued operations, net of tax	–	–	–	0.01
Net income	0.59	0.58	0.32	0.25

Diluted earnings per share

	Six months ended June 30, 2018	2017	Three months ended March 31, 2018
(\$ in millions, except per share data in \$)			
Amounts attributable to ABB shareholders:			
Income from continuing operations, net of tax	1,250	1,250	673
Income (loss) from discontinued operations, net of tax	3	(1)	8
Net income	1,253	1,249	681
Weighted-average number of shares outstanding (in millions)	2,132	2,140	2,130
Effect of dilutive securities:			
Call options and shares	10	9	8
Adjusted weighted-average number of shares outstanding (in millions)	2,142	2,149	2,138
Diluted earnings per share attributable to ABB shareholders:			
Income from continuing operations, net of tax	0.58	0.58	0.31
Income (loss) from discontinued operations, net of tax	–	–	0.01
Net income	0.58	0.58	0.32

□

Note 13**Reclassifications out of accumulated other comprehensive loss**

The following table shows changes in “Accumulated other comprehensive loss” (OCI) attributable to ABB, by component, net of tax:

(\$ in millions)	Foreign currency translation adjustments	Unrealized gains (losses) on available-for-sale securities	Pension and postretirement plan adjustments
Balance at January 1, 2017	(3,592)	7	(1,000)
Other comprehensive (loss) income:			
Other comprehensive (loss) income before reclassifications	572	2	
Amounts reclassified from OCI	—	—	
Changes attributable to divestments	5	—	
Total other comprehensive (loss) income	577	2	
Less:			
Amounts attributable to noncontrolling interests	13	—	
Balance at June 30, 2017	(3,028)	9	(1,000)

(\$ in millions)	Foreign currency translation adjustments	Unrealized gains (losses) on available-for-sale securities	Pension and postretirement plan adjustments
Balance at January 1, 2018	(2,693)	8	(1,000)
Cumulative effect of changes in accounting principles	—	(9)	
Other comprehensive (loss) income:			
Other comprehensive (loss) income before reclassifications	(404)	(5)	
Amounts reclassified from OCI	—	—	
Changes attributable to divestments	11	—	
Total other comprehensive (loss) income	(393)	(5)	

Less:
Amounts attributable to

noncontrolling interests	(4)	—	(1)
Balance at June 30, 2018	(3,082)	(6)	

The following table reflects amounts reclassified out of OCI in respect of pension and other postretirement plan adjustments:

(\$ in millions) Details about OCI components	Location of (gains) losses reclassified from OCI	Six month ended June 30, 2018
Pension and other postretirement plan adjustments:		
Amortization of prior service cost (credit)	Non-operational pension (cost) credit ⁽¹⁾	(9)
Amortization of net actuarial loss	Non-operational pension (cost) credit ⁽¹⁾	48
Total before tax		39
Tax	Provision for taxes	(10)
Amounts reclassified from OCI		29

(1)

These components are included in the computation of net periodic benefit cost (see Note 10)

The amounts in respect of Unrealized gains (losses) on available-for-sale securities and Unrealized gains (losses) of cash flow hedge derivatives were not significant for the six and three months ended June 30, 2018 and 2017.

□

Note 14**Restructuring and related expenses****White Collar Productivity program**

In September 2015, the Company announced a two-year program aimed at making the Company leaner, faster and more customer-focused. Productivity improvements include the rapid expansion and use of regional shared service centers as well as the streamlining of global operations and head office functions, with business units moving closer to their respective key markets. In the course of this program, the Company has implemented and executed various restructuring initiatives across all operating segments and regions.

As of December 31, 2017, the Company had incurred substantially all costs related to the White Collar Productivity program.

Liabilities associated with the White Collar Productivity program are primarily included in “Other provisions”. The following table shows the activity from the beginning of the program to June 30, 2018, by expense type.

(\$ in millions)	Employee severance costs	Contract settlement loss order and other costs
Liability at January 1, 2015	—	
Expenses	364	
Cash payments	(34)	(1)
Liability at December 31, 2015	330	
Expenses	232	
Cash payments	(106)	(3)
Change in estimates	(102)	(1)
Exchange rate differences	(23)	
Liability at December 31, 2016	331	
Expenses	35	
Cash payments	(110)	(5)
Change in estimates	(164)	
Exchange rate differences	28	
Liability at December 31, 2017	120	
Cash payments	(47)	
Change in estimates and exchange rate differences	(12)	
Liability at June 30, 2018	61	

The change in estimates during 2016 of \$103 million is due to significantly higher than expected rates of attrition and internal re-deployment and a lower than expected severance cost per employee for the employee groups affected by the first phase of restructuring initiated in 2015.

The change in estimates during 2017 of \$164 million is mainly due to higher than expected rates of attrition and internal re-deployment. During the six months ended June 30, 2017, \$60 million of the 2017 change in estimates, was recorded primarily as reductions in Cost of sales of \$29 million and in Selling, general and administrative expenses of \$24 million and related to restructurings initiated in both 2015 and 2016. During the three months ended June 30, 2017, \$29 million of the 2017 change in estimates, was recorded primarily as reductions in Cost of sales of \$13 million and in Selling, general and administrative expenses of \$14 million and related to restructurings initiated in both 2015 and 2016.

The change in estimates for the six months and three months ended June 30, 2017, of \$60 million and \$29 million, respectively, resulted in an increase in earnings per share (basic and diluted) of \$0.02 and \$0.01, in the respective periods.

The following table outlines the net costs incurred in the six and three months ended June 30, 2017, and the cumulative net costs incurred to December 31, 2017:

(\$ in millions)	Net cost incurred Six months ended June 30, 2017⁽¹⁾	Net cost incurred Three months ended June 30, 2017⁽¹⁾	Cumulative net cost incurred up to December 31, 2017⁽¹⁾
Power Grids	(11)	(4)	60
Electrification Products	(6)	(2)	72
Industrial Automation	(8)	(4)	106
Robotics and Motion	(3)	(3)	56
Corporate and Other	(17)	(10)	91
Total	(45)	(23)	385

(1) Net costs incurred in 2017 and Cumulative net costs incurred up to December 31, 2017 have been recast to reflect the reorganization of the Company's operating segments as outlined in Note 15.

The Company recorded the following expenses, net of changes in estimates, under this program:

(\$ in millions)	Six months ended June 30, 2017 ⁽¹⁾	Three months ended June 30, 2017
Employee severance costs	(46)	(2)
Estimated contract settlement, loss order and other costs	1	
Inventory and long-lived asset impairments	—	
Total	(45)	(2)

(1) Of which \$23 million was recorded in Total cost of sales and \$17 million in Selling, general and administrative expenses.

(2) Of which \$9 million was recorded in Total cost of sales and \$13 million in Selling, general and administrative expenses.

Other restructuring-related activities

In the six months ended June 30, 2018 and 2017, the Company executed various other restructuring-related activities and incurred expenses of \$26 million and \$58 million, respectively. In the three months ended June 30, 2018 and 2017, expenses relating to these various other restructuring-related activities amounted to \$9 million and \$45 million, respectively. These expenses mainly relate to employee severance costs, contract settlement and other costs, primarily recorded in “Other income (expense), net” in the three and six months ended June 30, 2018. These expenses mainly relate to employee severance costs, primary recorded in “Total cost of sales”, and long-lived asset impairments, recorded in “Other income (expense), net” in the three and six months ended June 30, 2017.

□

Note 15

Operating segment data

The Chief Operating Decision Maker (CODM) is the Chief Executive Officer. The CODM allocates resources to and assesses the performance of each operating segment using the information outlined below. The Company’s operating segments consist of Power Grids, Electrification Products, Industrial Automation, and Robotics and Motion. The remaining

operations of the Company are included in Corporate and Other.

Effective January 1, 2018, management responsibility and oversight of certain remaining engineering, procurement and construction (EPC) businesses, previously included in the Power Grids, Industrial Automation and Robotics and Motion operating segments, were transferred to a new non-core operating business within Corporate and Other. In addition, the results of certain businesses divested which, prior to their divestment in March 2018, were included within the Industrial Automation segment have been reclassified to Corporate and Other for all periods presented.

The segment information for the six and three months ended June 30, 2017 and at December 31, 2017, has been recast to reflect these organizational changes.

A description of the types of products and services provided by each reportable segment is as follows:

- **Power Grids:** offers a range of products, systems, service and software solutions across the power value chain of generation, transmission and distribution, to utility, industry, transport & infrastructure customers. These offerings address existing and evolving grid needs such as the integration of renewables, digital substations, network control solutions, microgrids and asset management. The division portfolio includes AC and DC transmission systems, substations, as well as a wide range of power, distribution and traction transformers and an array of high-voltage products, such as circuit breakers, switchgear and capacitors.
- **Electrification Products:** manufactures and sells products and services including electric vehicle charging, solar inverters, modular substation packages, switchgear, UPS solutions, circuit breakers, control products, wiring accessories, enclosures and cabling systems, and intelligent home and building solutions designed to integrate and automate the lighting, heating and ventilation, and security and data communication networks. The Electrification Products segment will also include the operations of GEIS which was acquired on June 30, 2018.
- **Industrial Automation:** develops and sells integrated automation and electrification systems and solutions, such as process and discrete control solutions, advanced process control software and manufacturing execution systems, sensing, measurement and analytical instrumentation and solutions, electric ship propulsion systems, as well as solutions for modern machine and factory automation and large turbochargers. In addition, the division offers a comprehensive range of services ranging from repair to advanced services such as remote monitoring, preventive maintenance and cybersecurity services.

- **Robotics and Motion:** manufactures and sells robotics, motors, generators, drives, wind converters, components and systems for railways and related services and digital solutions for a wide range of applications in industry, transportation and infrastructure, and utilities.
- **Corporate and Other:** includes headquarters, central research and development, the Company's real estate activities, Group Treasury Operations, non-core operating activities, historical operating activities of certain divested businesses and other minor business activities.

The Company evaluates the profitability of its segments based on Operational EBITA, which represents income from operations excluding:

- amortization expense on intangibles arising upon acquisitions (acquisition-related amortization),
- restructuring and restructuring-related expenses,

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- changes in the amount recorded for retained obligations of divested businesses occurring after the divestment date (changes in retained obligations of divested businesses),
- changes in estimates relating to opening balance sheets of acquired businesses (changes in pre-acquisition estimates),
- gains and losses from sale of businesses,
- acquisition-related expenses and integration costs,
- certain other non-operational items, as well as
- foreign exchange/commodity timing differences in income from operations consisting of: (a) unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives), (b) realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized, and (c) unrealized foreign exchange movements on receivables/payables (and related assets/liabilities).

The CODM primarily reviews the results of each segment on a basis that is before the elimination of profits made on inventory sales between segments. Segment results below are presented before these eliminations, with a total deduction for intersegment profits to arrive at the Company's consolidated Operational EBITA. Intersegment sales and transfers are accounted for as if the sales and transfers were to third parties, at current market prices.

The following tables present disaggregated segment revenues from contracts with customers, Operational EBITA, and the reconciliations of consolidated Operational EBITA to Income from continuing operations before taxes for the six and three months ended June 30, 2018 and 2017, as well as total assets at June 30, 2018, and December 31, 2017.

	Six months ended June 30, 2018					
(\$ in millions)	Power Grids	Electrification Products	Industrial Automation	Robotics and Motion	Corporate and Other	Total
Geographical markets						
Europe	1,291	1,862	1,580	1,442	45	6,220
The Americas	1,385	1,347	783	1,399	21	4,935
Asia, Middle East and Africa	1,798	1,716	1,268	1,438	141	6,361
	4,474	4,925	3,631	4,279	207	17,516
End Customer Markets						
Utilities	3,081	1,182	582	355	126	5,326
Industry	1,036	2,208	2,182	3,249	51	8,726
Transport & infrastructure	357	1,535	867	675	30	3,464
	4,474	4,925	3,631	4,279	207	17,516
Product type						

Products	2,574	4,281	1,229	3,086	36	11,206
Systems	1,093	298	922	522	171	3,006
Services and other	807	346	1,480	671		– 3,304
	4,474	4,925	3,631	4,279	207	17,516
Third-party revenues	4,474	4,925	3,631	4,279		207 17,516
Intersegment revenues	265	242	67	246	(820)	–
Total Revenues	4,739	5,167	3,698	4,525	(613)	17,516

Three months ended June 30, 2018

	Power Grids	Electrification Products	Industrial Automation	Robotics and Corporate Motion and Other	Total
(\$ in millions)					
Geographical markets					
Europe	618	925	772	733	23 3,071
The Americas	714	699	406	715	11 2,545
Asia, Middle East and Africa	897	916	629	746	85 3,273
	2,229	2,540	1,807	2,194	1198,889
End Customer Markets					
Utilities	1,500	642	286	188	64 2,680
Industry	540	1,120	1,105	1,627	38 4,430
Transport & infrastructure	189	778	416	379	17 1,779
	2,229	2,540	1,807	2,194	1198,889
Product type					
Products	1,257	2,196	590	1,575	20 5,638
Systems	542	161	458	278	99 1,538
Services and other	430	183	759	341	1,713
	2,229	2,540	1,807	2,194	1198,889
Third-party revenues	2,229	2,540	1,807	2,194	119 8,889
Intersegment revenues	125	133	32	122	(412) -
Total Revenues	2,354	2,673	1,839	2,316	(293)8,889

Six months ended June 30, 2017					
(\$ in millions)	Power Grids	Electrification Products	Industrial Automation	Robotics and Corporate Motion and Other	Total
Geographical markets					
Europe	1,342	1,657	1,174	1,231	103 5,507
The Americas	1,441	1,293	633	1,364	73 4,804
Asia, Middle East and Africa	1,742	1,617	1,208	1,162	268 5,997
	4,525	4,567	3,015	3,757	444 16,308
End Customer Markets					
Utilities	3,338	1,288	622	285	335 5,868
Industry	882	1,792	1,632	2,771	93 7,170
Transport & infrastructure	305	1,487	761	701	16 3,270
	4,525	4,567	3,015	3,757	444 16,308
Product type					
Products	2,620	3,997	627	2,729	49 10,022
Systems	1,257	270	1,067	447	388 3,429
Services and other	648	300	1,321	581	7 2,857
	4,525	4,567	3,015	3,757	444 16,308
Third-party revenues	4,525	4,567	3,015	3,757	444 16,308
Intersegment revenues	333	235	73	245	(886) —
Total Revenues	4,858	4,802	3,088	4,002	(442) 16,308

Three months ended June 30, 2017					
(\$ in millions)	Power Grids	Electrification Products	Industrial Automation	Robotics and Corporate Motion and Other	Total
Geographical markets					
Europe	694	853	584	624	59 2,814
The Americas	753	666	315	705	33 2,472
Asia, Middle East and Africa	891	866	636	625	150 3,168
	2,338	2,385	1,535	1,954	242 8,454
End Customer Markets					
Utilities	1,719	712	320	108	189 3,048
Industry	440	886	832	1,445	42 3,645
Transport & infrastructure	179	787	383	401	11 1,761
	2,338	2,385	1,535	1,954	242 8,454
Product type					
Products	1,420	2,074	329	1,417	49 5,289
Systems	579	149	533	239	193 1,693
Services and other	339	162	673	298	— 1,472
	2,338	2,385	1,535	1,954	242 8,454
Third-party revenues	2,338	2,385	1,535	1,954	242 8,454
Intersegment revenues	169	124	40	128	(461) —
Total Revenues	2,507	2,509	1,575	2,082	(219) 8,454

	Six months ended		Three months ended	
	June 30,	2017	June 30,	2018
(\$ in millions)				
Operational EBITA:				
Power Grids	464	484	232	2
Electrification Products	807	695	430	3
Industrial Automation	522	417	260	2
Robotics and Motion	712	596	374	3
Corporate and Other and Intersegment elimination	(278)	(207)	(129)	(10)
Consolidated Operational EBITA	2,227	1,985	1,167	1,0
Acquisition-related amortization	(145)	(115)	(72)	(5)
Restructuring and restructuring-related expenses ⁽¹⁾	(17)	(132)	(6)	(8)
Changes in retained obligations of divested businesses	–	(94)	–	–
Changes in pre-acquisition estimates	(1)	(2)	(1)	–
Gains and losses from sale of businesses	(5)	331	1	–
Acquisition-related expenses and integration costs	(77)	(14)	(51)	–
Certain other non-operational items	(59)	(150)	(30)	(4)
Foreign exchange/commodity timing differences in income from operations:				
Unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives)	(66)	169	(46)	–
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	(12)	18	(19)	–
Unrealized foreign exchange movements on receivables/payables (and related assets/liabilities)	12	(96)	19	(6)
Income from operations	1,857	1,900	962	8
Interest and dividend income	51	35	28	–
Interest and other finance expense	(153)	(153)	(45)	(7)
Non-operational pension (cost) credit	58	14	28	–
Income from continuing operations before taxes	1,813	1,796	973	8

(1) Amounts in 2017 also include the incremental implementation costs in relation to the White Collar Productivity program.

	Total assets⁽¹⁾	
	June 30, 2018	December 31, 2017
(\$ in millions)		
Power Grids	8,250	8,387
Electrification Products	13,836	10,314
Industrial Automation	6,802	7,258
Robotics and Motion	8,490	8,134
Corporate and Other	7,813	9,365
Consolidated	45,191	43,458

(1) Total assets are after intersegment eliminations and therefore reflect third-party assets only.

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Supplemental Reconciliations and Definitions

The following reconciliations and definitions include measures which ABB uses to supplement its Interim Consolidated Financial Information (unaudited) which is prepared in accordance with United States generally accepted accounting principles (U.S. GAAP). Certain of these financial measures are, or may be, considered non-GAAP financial measures as defined in the rules of the U.S. Securities and Exchange Commission (SEC).

While ABB's management believes that the non-GAAP financial measures herein are useful in evaluating ABB's operating results, this information should be considered as supplemental in nature and not as a substitute for the related financial information prepared in accordance with U.S. GAAP. Therefore these measures should not be viewed in isolation but considered together with the Interim Consolidated Financial Information (unaudited) prepared in accordance with U.S. GAAP as of and for the six and three months ended June 30, 2018.

On January 1, 2018, the Company adopted a new accounting standard, Revenue from contracts with customers, and consistent with the method of adoption elected, comparative information has not been restated and continues to be reported under the accounting standards previously in effect for those periods (see Note 2 to the Interim Consolidated Financial Information).

Comparable growth rates

Growth rates for certain key figures may be presented and discussed on a "comparable" basis. The comparable growth rate measures growth on a constant currency basis. Since we are a global company, the comparability of our operating results reported in U.S. dollars is affected by foreign currency exchange rate fluctuations. We calculate the impacts from foreign currency fluctuations by translating the current-year periods' reported key figures into U.S. dollar amounts using the exchange rates in effect for the comparable periods in the previous year.

Comparable growth rates are also adjusted for changes in our business portfolio. Adjustments to our business portfolio occur due to acquisitions, divestments, or by exiting specific business

activities or customer markets. The adjustment for portfolio changes is calculated as follows: where the results of any business acquired or divested have not been consolidated and reported for the entire duration of both the current and comparable periods, the reported key figures of such business are adjusted to exclude the relevant key figures of any corresponding quarters which are not comparable when computing the comparable growth rate. Certain portfolio changes which do not qualify as divestments under U.S. GAAP have been treated in a similar manner to divestments. Changes in our portfolio where we have exited certain business activities or customer markets are adjusted as if the relevant business was divested in the period when the decision to cease business activities was taken. We do not adjust for portfolio changes where the relevant business has annualized revenues of less than \$50 million.

The following tables provide reconciliations of reported growth rates of certain key figures to their respective comparable growth rate.

Divisional comparable growth rate reconciliation

Q2 2018 compared to Q2 2017

Division	Order growth rate				Revenue growth rate			
	US\$ reported)	Foreign impact changes	Portfolio Comparable		US\$ reported)	Foreign impact changes	Portfolio Comparable	
Power Grids	6%	-1%	0%	5%	-6%	-2%	0%	-2%
Electrification Products	9%	-3%	0%	6%	7%	-3%	0%	-2%
Industrial Automation	34%	-4%	-15%	15%	17%	-4%	-13%	-2%
Robotics and Motion	15%	-4%	0%	11%	11%	-3%	0%	-2%
ABB Group	14%	-3%	-3%	8%	5%	-2%	-2%	-2%

H1 2018 compared to H1 2017

Division	Order growth rate				Revenue growth rate			
	US\$ reported)	Foreign impact changes	Portfolio Comparable		US\$ reported)	Foreign impact changes	Portfolio Comparable	
Power Grids	6%	-3%	0%	3%	-2%	-4%	0%	-2%
Electrification Products	9%	-5%	0%	4%	8%	-5%	0%	-2%
Industrial Automation	30%	-7%	-14%	9%	20%	-6%	-14%	-2%
Robotics and Motion	16%	-5%	0%	11%	13%	-5%	0%	-2%
ABB Group	15%	-5%	-3%	7%	7%	-4%	-2%	-2%

Regional comparable growth rate reconciliation**Q2 2018 compared to Q2 2017**

Region	Order growth rate				Revenue growth	
	US\$ (as reported)	Foreign (as exchange Portfolio impact changes)	Comparable		US\$ (as reported)	Foreign (as exchange Portfolio impact changes)
Europe	22%	-6%	-6%	10%	9%	-5%
The Americas	7%	1%	-1%	7%	3%	1%
Asia, Middle East and Africa	11%	-3%	-1%	7%	3%	-3%
ABB Group	14%	-3%	-3%	8%	5%	-2%

H1 2018 compared to H1 2017

Region	Order growth rate				Revenue growth	
	US\$ (as reported)	Foreign (as exchange Portfolio impact changes)	Comparable		US\$ (as reported)	Foreign (as exchange Portfolio impact changes)
Europe	18%	-10%	-5%	3%	13%	-9%
The Americas	4%	0%	-1%	3%	3%	0%
Asia, Middle East and Africa	21%	-6%	-2%	13%	6%	-5%
ABB Group	15%	-5%	-3%	7%	7%	-4%

Order backlog growth rate reconciliation**June 30, 2018 compared to June 30, 2017**

Division	US\$ Foreign (as exchange Portfolio impact changes)			
	reported)	impact changes	Comparable	
Power Grids	-6%	2%	0%	-4%
Electrification Products	38%	-33%	0%	5%
Industrial Automation	-1%	0%	-3%	-4%
Robotics and Motion	5%	1%	0%	6%
ABB Group	3%	1%	-5%	-1%

Other growth rate reconciliations**Q2 2018 compared to Q2 2017**

	US\$ Foreign (as exchange Portfolio impact changes)			
	reported)	impact changes	Comparable	
Large orders	3%	-1%	0%	2%
Base orders	14%	-2%	-3%	9%

H1 2018 compared to H1 2017

	US\$ Foreign (as exchange Portfolio impact changes)			
	reported)	impact changes	Comparable	
Large orders	16%	-6%	-3%	
Base orders	15%	-5%	-3%	

Service orders	5%	-3%	0%	2%	10%	-5%	0%
Service revenues	16%	-3%	0%	13%	16%	-6%	1%
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Division realignment

Effective January 1, 2018, management responsibility and oversight of certain remaining engineering, procurement and construction (EPC) businesses, previously included in the Power Grids, Industrial Automation and Robotics and Motion operating segments, were transferred to a new non-core operating business within Corporate and Other. See Note 15 to the Interim Consolidated Financial Information (unaudited) for further details on the realignment.

The following information presents a reconciliation of growth rates of orders and revenues for 2017 compared with 2016 to reflect these organizational changes:

Divisional comparable growth rate reconciliation

Q2 2017 compared to Q2 2016

Division	Order growth rate				Revenue growth rate			
	US\$ (as reported)	Foreign (as exchange rate impact)	Portfolio (as comparable)	Portfolio (as comparable)	US\$ (as reported)	Foreign (as exchange rate impact)	Portfolio (as comparable)	Portfolio (as comparable)
Power Grids	-6%	2%	0%	-4%	-1%	2%	0%	0%
Electrification Products	-4%	3%	0%	-1%	-1%	3%	0%	0%
Industrial Automation	6%	2%	0%	8%	-9%	2%	0%	0%
Robotics and Motion	12%	3%	0%	15%	3%	2%	0%	0%
ABB Group	0%	3%	0%	3%	-3%	3%	1%	1%

H1 2017 compared to H1 2016

Division	Order growth rate				Revenue growth rate			
	US\$ (as reported)	Foreign (as exchange rate impact)	Portfolio (as comparable)	Portfolio (as comparable)	US\$ (as reported)	Foreign (as exchange rate impact)	Portfolio (as comparable)	Portfolio (as comparable)
Power Grids	-13%	2%	0%	-11%	1%	2%	0%	0%
Electrification Products	-2%	3%	0%	1%	0%	2%	0%	0%
Industrial Automation	-2%	2%	0%	0%	-8%	2%	0%	0%
Robotics and Motion	8%	3%	0%	11%	3%	2%	0%	0%
ABB Group	-5%	3%	2%	0%	-2%	3%	1%	1%

Operational EBITA margin

Definition

Operational EBITA margin

Operational EBITA margin is Operational EBITA as a percentage of Operational revenues.

Operational EBITA

Operational earnings before interest, taxes and acquisition-related amortization (Operational EBITA) represents Income from operations excluding:

- acquisition-related amortization (as defined below),
- restructuring and restructuring-related expenses,
- changes in the amount recorded for retained obligations of divested businesses occurring after the divestment date (changes in retained obligations of divested businesses),
- changes in estimates relating to opening balance sheets of acquired businesses (changes in pre-acquisition estimates) ,
- gains and losses from sale of businesses,
- acquisition-related expenses and integration costs,
- certain other non-operational items, as well as
- foreign exchange/commodity timing differences in income from operations consisting of: (a) unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives), (b) realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized, and (c) unrealized foreign exchange movements on receivables/payables (and related assets/liabilities).

Operational EBITA is our measure of segment profit but is also used by management to evaluate the profitability of the Company as a whole.

Acquisition-related amortization

Amortization expense on intangibles arising upon acquisitions.

Operational revenues

The Company presents Operational revenues solely for the purpose of allowing the computation of Operational EBITA margin. Operational revenues are total revenues adjusted for foreign exchange/commodity timing differences in total revenues of: (i) unrealized gains and losses on derivatives, (ii) realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized, and (iii) unrealized foreign exchange movements on receivables (and related assets). Operational revenues are not intended to be an alternative measure to Total Revenues, which represent our revenues measured in accordance with U.S. GAAP.

Reconciliation

The following tables provide reconciliations of consolidated Operational EBITA to Net Income and Operational EBITA Margin by division.

Reconciliation of consolidated Operational EBITA to Net Income

	Six months ended June 30,	Three months ended June 30,
(\$ in millions)	2018	2017
Operational EBITA	2,227	1,985
Acquisition-related amortization	(145)	(115)
Restructuring and restructuring-related expenses ⁽¹⁾	(17)	(132)
Changes in retained obligations of divested businesses	–	(94)
Changes in pre-acquisition estimates	(1)	(2)
Gains and losses from sale of businesses	(5)	331
Acquisition-related expenses and integration costs	(77)	(14)
Certain other non-operational items	(59)	(150)
Foreign exchange/commodity timing differences in income from operations:		
Unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives)	(66)	169
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	(12)	18
Unrealized foreign exchange movements on receivables/payables (and related assets/liabilities)	12	(96)
Income from operations	1,857	1,900
Interest and dividend income	51	35
Interest and other finance expense	(153)	(153)
Non-operational pension (cost) credit	58	14
Income from continuing operations before taxes	1,813	1,796
Provision for taxes	(499)	(456)
Income from continuing operations, net of tax	1,314	1,340

Income (loss) from discontinued operations, net of tax	3	(1)	8
Net income	1,317	1,339	717 5

(1) Amounts in 2017 also include the incremental implementation costs in relation to the White Collar Productivity program.

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Reconciliation of Operational EBITA margin by division

Six months ended June 30, 2018

	Power Grids	Electrification Products	Industrial Automation	Robotics and Motion	Inter el
(\$ in millions, unless otherwise indicated)					
Total revenues	4,739	5,167	3,698	4,525	
Foreign exchange/commodity timing differences in total revenues:					
Unrealized gains and losses on derivatives	64	27	7	23	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	16	–	6	(1)	
Unrealized foreign exchange movements on receivables (and related assets)	(24)	(13)	(7)	(11)	
Operational revenues	4,795	5,181	3,704	4,536	
Income (loss) from operations	369	661	460	666	
Acquisition-related amortization	20	39	44	32	
Restructuring and restructuring-related expenses	11	3	2	2	
Changes in retained obligations of divested businesses	–	–	–	–	
Changes in pre-acquisition estimates	–	1	–	–	
Gains and losses from sale of businesses	–	2	3	–	
Acquisition-related expenses and integration costs	4	68	2	–	
Certain other non-operational items	27	15	–	5	
Foreign exchange/commodity timing differences in income from operations:					
Unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives)	39	22	1	4	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	10	1	7	–	
Unrealized foreign exchange movements on receivables/payables (and related assets/liabilities)	(16)	(5)	3	3	
Operational EBITA	464	807	522	712	
Operational EBITA margin (%)	9.7%	15.6%	14.1%	15.7%	

Six months ended June 30, 2017

	Power Grids	Electrification Products	Industrial Automation	Robotics and Motion	Inter elin
(\$ in millions, unless otherwise indicated)					
Total revenues	4,858	4,802	3,088	4,002	
Foreign exchange/commodity timing differences in total revenues:					
Unrealized gains and losses on derivatives	(79)	(42)	(27)	(19)	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	(13)	–	(2)	1	
Unrealized foreign exchange movements on receivables (and related assets)	51	15	14	8	
Operational revenues	4,817	4,775	3,073	3,992	
Income (loss) from operations	437	641	420	543	
Acquisition-related amortization	17	52	4	34	
Restructuring and restructuring-related expenses ⁽¹⁾	21	13	9	27	
Changes in retained obligations of divested businesses	–	–	–	–	
Changes in pre-acquisition estimates	–	2	–	–	
Gains and losses from sale of businesses	–	–	(2)	–	
Acquisition-related expenses and integration costs	–	3	7	–	
Certain other non-operational items	52	13	–	–	
Foreign exchange/commodity timing differences in income from operations:					
Unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives)	(92)	(39)	(36)	(17)	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	(13)	–	(2)	–	
Unrealized foreign exchange movements on receivables/payables (and related assets/liabilities)	62	10	17	9	
Operational EBITA	484	695	417	596	
Operational EBITA margin (%)	10.0%	14.6%	13.6%	14.9%	

(1) Amounts in 2017 also include the incremental implementation costs in relation to the White Collar Productivity program.

Three months ended June 30, 20

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(\$ in millions, unless otherwise indicated)

	Power Grids	Electrification Products	Industrial Automation	Robotics and Motion	Inter
Total revenues	2,354	2,673	1,839	2,316	
Foreign exchange/commodity timing differences in total revenues:					
Unrealized gains and losses on derivatives	47	31	11	19	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	12	–	3	(1)	
Unrealized foreign exchange movements on receivables (and related assets)	(17)	(11)	(7)	(8)	
Operational revenues	2,396	2,693	1,846	2,326	
Income (loss) from operations	176	343	223	353	
Acquisition-related amortization	10	19	21	16	
Restructuring and restructuring-related expenses	7	(1)	–	(2)	
Changes in retained obligations of divested businesses	–	–	–	–	
Changes in pre-acquisition estimates	–	1	–	–	
Gains and losses from sale of businesses	–	2	–	–	
Acquisition-related expenses and integration costs	3	44	1	–	
Certain other non-operational items	12	10	–	4	
Foreign exchange/commodity timing differences in income from operations:					
Unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives)	30	16	9	2	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	8	1	5	–	
Unrealized foreign exchange movements on receivables/payables (and related assets/liabilities)	(14)	(5)	1	1	
Operational EBITA	232	430	260	374	
Operational EBITA margin (%)	9.7%	16.0%	14.1%	16.1%	

Three months ended June 30, 2017

	Power Grids	Electrification Products	Industrial Automation	Robotics and Motion	Inter Other elin
(\$ in millions, unless otherwise indicated)					
Total revenues	2,507	2,509	1,575	2,082	
Foreign exchange/commodity timing differences in total revenues:					
Unrealized gains and losses on derivatives	(29)	(19)	(9)	(1)	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	(8)	–	(2)	1	
Unrealized foreign exchange movements on receivables (and related assets)	24	3	9	2	
Operational revenues	2,494	2,493	1,573	2,084	
Income (loss) from operations	226	334	209	282	
Acquisition-related amortization	9	26	2	16	
Restructuring and restructuring-related expenses ⁽¹⁾	18	13	5	17	
Changes in pre-acquisition estimates	–	2	–	–	
Gains and losses from sale of businesses	–	–	(2)	–	
Acquisition-related expenses and integration costs	1	3	4	–	
Certain other non-operational items	24	9	–	–	
Foreign exchange/commodity timing differences in income from operations:					
Unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives)	(51)	(23)	(19)	(7)	
Realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized	(10)	–	–	–	
Unrealized foreign exchange movements on receivables/payables (and related assets/liabilities)	36	9	12	6	
Operational EBITA	253	373	211	314	
Operational EBITA margin (%)	10.1%	15.0%	13.4%	15.1%	

(1) Amounts in 2017 also include the incremental implementation costs in relation to the White Collar Productivity program.

Operational EPS

Definition

Operational EPS

Operational EPS is calculated as Operational net income divided by the weighted-average number of shares outstanding used in determining basic earnings per share.

Operational net income

Operational net income is calculated as Net income attributable to ABB adjusted for the following:

- (i) acquisition-related amortization,
- (ii) restructuring and restructuring-related expenses,
- (iii) non-operational pension cost (credit),
- (iv) changes in retained obligations of divested businesses,
- (v) changes in pre-acquisition estimates,
- (vi) gains and losses from sale of businesses,
- (vii) acquisition-related expenses and integration costs,
- (viii) certain other non-operational items,
- (ix) foreign exchange/commodity timing differences in income from operations consisting of: (a) unrealized gains and losses on derivatives (foreign exchange, commodities, embedded derivatives), (b) realized gains and losses on derivatives where the underlying hedged transaction has not yet been realized, and (c) unrealized foreign exchange movements on receivables/payables (and related assets/liabilities), and
- (x) The amount of income tax on operational adjustments either estimated using the Adjusted Group effective tax rate or in certain specific cases, computed using the actual income tax effects of the relevant item in (i) to (viii) above.

Acquisition-related amortization

Amortization expense on intangibles arising upon acquisitions.

Adjusted Group effective tax rate

The Adjusted Group effective tax rate is computed by dividing an adjusted provision for taxes by an adjusted income from continuing operations before taxes. Certain amounts recorded in income from continuing operations before taxes and the related provision for taxes (primarily gains and losses from sale of businesses) are excluded from the computation.

Constant currency Operational EPS adjustment and Operational EPS growth rate (constant currency)

In connection with ABB's 2015-2020 targets, Operational EPS growth is measured assuming 2014 as the base year and uses constant exchange rates. We compute the constant currency operational net income for all periods using the relevant monthly exchange rates which were in effect during 2014 and any difference in computed Operational net income is divided by the relevant weighted-average number of shares outstanding to identify the constant currency Operational EPS adjustment.

Reconciliation

	Six months ended June 30,		
	2018	2017	Growth ⁽³⁾
(\$ in millions, except per share data in \$)			
Net income (attributable to ABB)	1,253	1,249	
Operational adjustments:			
Acquisition-related amortization	145	115	
Restructuring and restructuring-related expenses ⁽¹⁾	17	132	
Non-operational pension cost (credit)	(58)	(14)	
Changes in retained obligations of divested businesses	–	94	
Changes in pre-acquisition estimates	1	2	
Gains and losses from sale of businesses	5	(331)	
Acquisition-related expenses and integration costs	77	14	
Certain other non-operational items	59	150	
FX/commodity timing differences in income from operations	66	(91)	
Tax on operational adjustments ⁽²⁾	(86)	(76)	
Operational net income	1,479	1,244	19%
Weighted-average number of shares outstanding (in millions)	2,132	2,140	
Operational EPS	0.69	0.58	19%
Constant currency Operational EPS adjustment	0.09	0.09	
Operational EPS (constant currency basis - 2014 exchange rates)	0.78	0.67	16%

	Three months ended June 30,		Growth⁽³⁾
	2018	2017	
(\$ in millions, except per share data in \$)			
Net income (attributable to ABB)	681	525	
Operational adjustments:			
Acquisition-related amortization	72	56	
Restructuring and restructuring-related expenses ⁽¹⁾	6	84	
Non-operational pension cost (credit)	(29)	(7)	
Changes in retained obligations of divested businesses	—	—	
Changes in pre-acquisition estimates	1	2	
Gains and losses from sale of businesses	(1)	7	
Acquisition-related expenses and integration costs	51	8	
Certain other non-operational items	30	48	
FX/commodity timing differences in income from operations	46	(40)	
Tax on operational adjustments ⁽²⁾	(47)	(46)	
Operational net income	810	637	27%
Weighted-average number of shares outstanding (in millions)	2,130	2,140	
Operational EPS	0.38	0.30	28%
Constant currency Operational EPS adjustment	0.05	0.04	
Operational EPS (constant currency basis - 2014 exchange rates)	0.43	0.34	27%

(1) Amounts in 2017 also include the incremental implementation costs in relation to the White Collar Productivity program.

(2) Tax amount is computed by applying the Adjusted Group effective tax rate to the operational adjustments, except for gains and losses from sale of businesses for which the actual provision for taxes resulting from the gain or loss has been computed.

(3) Growth is computed using unrounded EPS amounts.

Net debt

Definition

Net debt

Net debt is defined as Total debt less Cash and marketable securities.

Total debt

Total debt is the sum of Short-term debt and current maturities of long-term debt, and Long-term debt.

Cash and marketable securities

Cash and marketable securities is the sum of Cash and equivalents, and Marketable securities and short-term investments.

Reconciliation

(\$ in millions)	June 30, 2018	December 31, 2017
Short-term debt and current maturities of long-term debt	3,786	738
Long-term debt	6,661	6,709
Total debt	10,447	7,447
Cash and equivalents	3,283	4,526
Marketable securities and short-term investments	794	1,102
Cash and marketable securities	4,077	5,628
Net debt	6,370	1,819

Net working capital as a percentage of revenues

Definition

Net working capital as a percentage of revenues

Net working capital as a percentage of revenues is calculated as Net working capital divided by Adjusted revenues for the trailing twelve months.

Net working capital

Net working capital is the sum of (i) receivables, net, (ii) contract assets, (iii) inventories, net, and (iv) prepaid expenses; less (v) accounts payable, trade, (v) contract liabilities, and (vi) other current liabilities (excluding primarily: (a) income taxes payable, (b) current derivative liabilities, (c) pension and other employee benefits, and (d) payables under the share buyback program); and including the amounts related to these accounts which have been presented as either assets or liabilities held for sale.

Adjusted revenues for the trailing twelve months

Adjusted revenues for the trailing twelve months includes total revenues recorded by ABB in the twelve months preceding the relevant balance sheet date adjusted to eliminate revenues of divested businesses and the estimated impact of annualizing revenues of certain acquisitions which were completed in the same trailing twelve-month period.

Reconciliation

(\$ in millions, unless otherwise indicated)

Net working capital:

Receivables, net	9,001
Contract assets	2,281
Inventories, net	5,934
Prepaid expenses	315
Accounts payable, trade	(5,933)
Contract liabilities	(2,757)
Other current liabilities ⁽¹⁾	(3,501)
Net working capital	5,340

Total revenues for the three months ended:

June 30, 2018 / 2017	8,889
March 31, 2018 / 2017	8,627
December 31, 2017 / 2016	9,280

September 30, 2017 / 2016	8,724
Adjustment to annualize/eliminate revenues of certain acquisitions/divestments	2,586
Adjusted revenues for the trailing twelve months	38,106
Net working capital as a percentage of revenues (%)	14.0%

(1) Amounts exclude \$575 million and \$514 million at June 30, 2018 and 2017, respectively, related primarily to (a) income taxes payable, (b) current derivative liabilities, and (c) pension and other employee benefits.

Free cash flow conversion to net income

Definition

Free cash flow conversion to net income

Free cash flow conversion to net income is calculated as Free cash flow divided by Net income attributable to ABB.

Free cash flow (FCF)

Free cash flow is calculated as net cash provided by operating activities adjusted for: (i) purchases of property, plant and equipment and intangible assets, (ii) proceeds from sales of property, plant and equipment, and (iii) changes in financing and other non-current receivables, net (included in other investing activities).

Free cash flow for the trailing twelve months

Free cash flow for the trailing twelve months includes free cash flow recorded by ABB in the twelve months preceding the relevant balance sheet date.

Net income for the trailing twelve months

Net income for the trailing twelve months includes net income recorded by ABB in the twelve months preceding the relevant balance sheet date.

Free cash flow conversion to net income

(\$ in millions, unless otherwise indicated)

Net cash provided by operating activities

Adjusted for the effects of:

Purchases of property, plant and equipment and intangible assets

Proceeds from sale of property, plant and equipment

Changes in financing receivables and other non-current receivables

Free cash flow

Net income attributable to ABB

Free cash flow conversion to net income

	Twelve months to June 30, 2018	December 31, 2017
	3,315	3,799
	(967)	(949)
	81	66
	3	10
	2,432	2,926
	2,217	2,213
	110%	132%

Reconciliation of the trailing twelve months to June 30, 2018

	Net cash	Purchases of property, plant and equipment and intangible assets	Proceeds from sale of property, plant and equipment	Changes in financing receivables and other non-current receivables	Net income attributable to ABB
(\$ in millions)	provided by operating activities				
Q3 2017	954	(203)	20	—	571
Q4 2017	1,869	(329)	16	3	393
Q1 2018	(518)	(238)	26	(1)	572
Q2 2018	1,010	(197)	19	1	681
Total for the trailing twelve months to June 30, 2018	3,315	(967)	81	3	2,217
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Finance net**Definition**

Finance net is calculated as Interest and dividend income less Interest and other finance expense.

Reconciliation

	Six months ended June 30,		Three months ended June 30,	
(\$ in millions)	2018	2017	2018	2017
Interest and dividend income	51	35	28	18
Interest and other finance expense	(153)	(153)	(45)	(74)
Finance net	(102)	(118)	(17)	(56)

Book-to-bill ratio**Definition**

Book-to-bill ratio is calculated as Orders received divided by Total revenues.

Reconciliation

	Six months ended June 30,		Three months ended June 30,	
(\$ in millions, unless otherwise indicated)	2018	2017	2018	2017
Orders received	19,255	16,752	9,483	8,349
Total revenues	17,516	16,308	8,889	8,454
Book-to-bill ratio	1.10	1.03	1.07	0.99

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ABB Ltd

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April — June 2018 — Q2

ABB Ltd announces that the following members of the Executive Committee or Board of Directors of ABB have purchased, sold or been granted ABB's registered shares, call options and warrant appreciation rights ("WARs"), in the following amounts:

Name	Date	Description	Received *	Purchased	Sold	Price
Peter Voser	May 15, 2018	Shares	25,133			CHF 22.72
Matti Alahuhta	May 15, 2018	Shares	2,694			CHF 22.72
David Constable	May 15, 2018	Shares	2,947			CHF 22.72
Frederico Curado	May 15, 2018	Shares	2,495			CHF 22.72
Lars Förberg	May 15, 2018	Shares	6,690			CHF 22.72
David Meline	May 15, 2018	Shares	2,779			CHF 22.72
Satish Pai	May 15, 2018	Shares	2,574			CHF 22.72
Jacob Wallenberg	May 15, 2018	Shares	3,789			CHF 22.72
Ulrich Spiesshofer	June 05, 2018	Shares	99,324			CHF 22.73
Jean-Christophe Deslarzes	June 05, 2018	Shares	29,763			CHF 22.73
Diane de Saint Victor	June 05, 2018	Shares	35,650			CHF 22.73
Frank Duggan	June 05, 2018	Shares	38,365			CHF 22.73
Greg Scheu	June 05, 2018	Shares	26,569			USD 23.11
Tarak Mehta	June 05, 2018	Shares	24,106			CHF 22.73
Claudio Facchin	June 05, 2018	Shares	35,434			CHF 22.73
Peter Terwiesch	June 05, 2018	Shares	29,542			CHF 22.73
Chunyuan Gu	June 05, 2018	Shares	15,152			CHF 22.73

Key:

* Received instruments were delivered as part of the ABB Ltd Director's or Executive Committee Member's compensation

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

ABB LTD

Date: July 19, 2018.

By: /s/ Jessica Mitchell
Name: Jessica Mitchell
Title: Group Senior Vice President and
Head of Investor Relations

Date: July 19, 2018.

By: /s/ Richard A. Brown
Name: Richard A. Brown
Title: Group Senior Vice President and
Chief Counsel Corporate & Finance
