

July 19, 2018

Q2 2018 Financial information

Financial InformationContents

03 — 07	Key Figures
08 — 35	Interim Consolidated Financial Information (unaudited)
36 — 48	Supplemental Reconciliations and Definitions



Key Figures

			CHAN	IGE
(\$ in millions, unless otherwise indicated)	Q2 2018	Q2 2017	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%	

			CHAN	NGE
(\$ in millions, unless otherwise indicated)	H1 2018	H1 2017	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).

				(CHANGE	
(\$ in millions, unless otherwise indicated)		Q2 2018	Q2 2017	US\$	Local	Comparable
Orders	ABB Group	9,483	8,349	14%	11%	8%
	Power Grids	2,577	2,427	6%	5%	5%
	Electrification Products	2,727	2,512	9%	6%	6%
	Industrial Automation	2,005	1,492	34%	30%	15%
	Robotics and Motion	2,540	2,218	15%	11%	11%
	Corporate and Other					
	(incl. inter-division eliminations)	(366)	(300)			
Third-party base orders	ABB Group	8,794	7,681	14%	12%	9%
	Power Grids	2,128	1,961	9%	7%	7%
	Electrification Products	2,553	2,393	7%	4%	4%
	Industrial Automation	1,715	1,321	30%	26%	9%
	Robotics and Motion	2,363	1,966	20%	16%	16%
	Corporate and Other	35	40			
Order backlog (end June)	ABB Group	24,214	23,553	3%	4%	-1%
	Power Grids	10,471	11,085	-6%	-4%	-4%
	Electrification Products	4,449	3,220	38%	39%	5%
	Industrial Automation	5,496	5,578	-1%	-1%	-4%
	Robotics and Motion	4,262	4,056	5%	6%	6%
	Corporate and Other	, -	,			
	(incl. inter-division eliminations)	(464)	(386)			
Revenues	ABB Group	8,889	8,454	5%	3%	1%
Revenues	Power Grids	2,354	2,507	-6%	-8%	-8%
	Electrification Products	2,673	2,509	7%	4%	4%
	Industrial Automation	1,839	1,575	17%	13%	0%
	Robotics and Motion	2,316	2,082	11%	8%	8%
	Corporate and Other	2,310	2,002	1170	0,0	070
	(incl. inter-division eliminations)	(293)	(219)			
Operational EBITA	ABB Group	1,167	1,042	12%	8%	
Operational EBITA	Power Grids	232	253		-9%	
				-8%	10%	
	Electrification Products	430	373	15%		
	Industrial Automation	260	211	23%	21%	
	Robotics and Motion	374	314	19%	15%	
	Corporate and Other	(400)	(400)			
	(incl. inter-division eliminations)	(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			
	Corporate and Other					
	(incl. inter-division eliminations)	(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			
	Corporate and Other	(74)	(243)			

					CHANGE	
(\$ in millions, unless otherwise indicated)		H1 2018	H1 2017	US\$	Local	Comparable
Orders	ABB Group	19,255	16,752	15%	10%	7%
	Power Grids	5,057	4,751	6%	3%	3%
	Electrification Products	5,513	5,040	9%	4%	4%
	Industrial Automation	4,122	3,166	30%	23%	9%
	Robotics and Motion	5,119	4,395	16%	11%	11%
	Corporate and Other					
	(incl. inter-division eliminations)	(556)	(600)			
Third-party base orders	ABB Group	17,545	15,279	15%	10%	7%
	Power Grids	4,120	3,724	11%	7%	7%
	Electrification Products	5,200	4,758	9%	4%	4%
	Industrial Automation	3,502	2,762	27%	20%	4%
	Robotics and Motion	4,676	3,957	18%	13%	13%
	Corporate and Other	47	78			
Order backlog (end June)	ABB Group	24,214	23,553	3%	4%	-1%
	Power Grids	10,471	11,085	-6%	-4%	-4%
	Electrification Products	4,449	3,220	38%	39%	5%
	Industrial Automation	5,496	5,578	-1%	-1%	-4%
	Robotics and Motion	4,262	4,056	5%	6%	6%
	Corporate and Other					
	(incl. inter-division eliminations)	(464)	(386)			
Revenues	ABB Group	17,516	16,308	7%	3%	1%
	Power Grids	4,739	4,858	-2%	-6%	-6%
	Electrification Products	5,167	4,802	8%	3%	3%
	Industrial Automation	3,698	3,088	20%	14%	0%
	Robotics and Motion	4,525	4,002	13%	8%	8%
	Corporate and Other					
	(incl. inter-division eliminations)	(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%	
	Corporate and Other					
	(incl. inter-division eliminations)	(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			
meome nom operacions	Power Grids	369	437			
	Electrification Products	661	641			
	Industrial Automation	460	420			
	Robotics and Motion	666	543			
		000	543			
	Corporate and Other (incl. inter-division eliminations)	(299)	(1.41)			
	·		(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			
	Corporate and Other	(575)	(512)			

Operational EBITA

			Pow	ver	Electrifi	ication	Indus	trial	Robo	tics
(\$ in millions, unless otherwise indicated)	AB	В	Gri	ds	Prod	ucts	Autom	ation	and M	otion
	Q2 18	Q2 17	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	2,316	2,082
FX/commodity timing										
differences in total revenues	75	(26)	42	(13)	20	(16)	7	(2)	10	2
Operational revenues	8,964	8,428	2,396	2,494	2,693	2,493	1,846	1,573	2,326	2,084
Income from operations	962	877	176	226	343	334	223	209	353	282
Acquisition-related amortization	72	56	10	9	19	26	21	2	16	16
Restructuring and										
restructuring-related expenses(1)	6	84	7	18	(1)	13	-	5	(2)	17
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	-	_	4	_
FX/commodity timing										
differences in income from operations	46	(40)	24	(25)	12	(14)	15	(7)	3	(1)
Operational EBITA	1,167	1,042	232	253	430	373	260	211	374	314
Operational EBITA margin (%)	13.0%	12.4%	9.7%	10.1%	16.0%	15.0%	14.1%	13.4%	16.1%	15.1%

(\$ in millions, unless otherwise indicated)	AE	в	Pov Gri		Electrif Prod		Indus Autom		Robo and M	
	H1 18	H1 17	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	4,525	4,002
FX/commodity timing										
differences in total revenues	87	(105)	56	(41)	14	(27)	6	(15)	11	(10)
Operational revenues	17,603	16,203	4,795	4,817	5,181	4,775	3,704	3,073	4,536	3,992
Income from operations	1,857	1,900	369	437	661	641	460	420	666	543
Acquisition-related amortization	145	115	20	17	39	52	44	4	32	34
Restructuring and										
restructuring-related expenses ⁽¹⁾	17	132	11	21	3	13	2	9	2	27
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	-	_	5	_
FX/commodity timing										
differences in income from operations	66	(91)	33	(43)	18	(29)	11	(21)	7	(8)
Operational EBITA	2,227	1,985	464	484	807	695	522	417	712	596
Operational EBITA margin (%)	12.7%	12.3%	9.7%	10.0%	15.6%	14.6%	14.1%	13.6%	15.7%	14.9%

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

Depreciation and Amortization

			Power Electrification		Industrial		Robotics			
(\$ in millions)	ABB		Grids		Products		Automation		and Motion	
	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17	Q2 18	Q2 17
Depreciation	188	180	42	43	50	50	17	12	35	34
Amortization	92	78	16	15	21	29	23	3	18	19
including total acquisition-related amortization of:	72	56	10	9	19	26	21	2	16	16

(\$ in millions)	AE	Power ABB Grids			Electrification Products		Industrial Automation		Robotics and Motion	
	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17	H1 18	H1 17
Depreciation	381	364	87	86	102	100	34	24	70	68
Amortization	184	157	33	30	44	58	47	6	35	40
including total acquisition-related amortization of:	145	115	20	17	39	52	44	4	32	34

Orders received and revenues by region

(\$ in millions, unless otherwise indicated)	Orders received			CHANGE			nues	CHANGE		
					Com-					Com-
	Q2 18	Q2 17	US\$	Local	parable	Q2 18	Q2 17	US\$	Local	parable
Europe	3,469	2,843	22%	16%	10%	3,071	2,813	9%	4%	0%
The Americas	2,601	2,441	7%	8%	7%	2,545	2,472	3%	4%	3%
Asia, Middle East and Africa	3,413	3,065	11%	8%	7%	3,273	3,169	3%	0%	-1%
ABB Group	9,483	8,349	14%	11%	8%	8,889	8,454	5%	3%	1%

(\$ in millions, unless otherwise indicated)	Orders r	Orders received CHANGE		CHANGE		Revenues			CHANGE		
					Com-					Com-	
	H1 18	H1 17	US\$	Local	parable	H1 18	H1 17	US\$	Local	parable	
Europe	7,051	5,970	18%	8%	3%	6,220	5,507	13%	4%	-1%	
The Americas	4,992	4,803	4%	4%	3%	4,935	4,804	3%	3%	2%	
Asia, Middle East and Africa	7,212	5,979	21%	15%	13%	6,361	5,997	6%	1%	1%	
ABB Group	19,255	16,752	15%	10%	7%	17,516	16,308	7%	3%	1%	



Interim Consolidated Financial Information

ABB Ltd Interim Consolidated Income Statements (unaudited)

	Six montl	ns ended	Three mon	ths ended
(\$ in millions, except per share data in \$)	Jun. 30, 2018	Jun. 30, 2017	Jun. 30, 2018	Jun. 30, 2017
Sales of products	14,212	13,451	7,176	6,982
Sales of services and other	3,304	2,857	1,713	1,472
Total revenues	17,516	16,308	8,889	8,454
Cost of sales of products	(10,109)	(9,652)	(5,137)	(4,985)
Cost of services and other	(1,970)	(1,693)	(1,023)	(874)
Total cost of sales	(12,079)	(11,345)	(6,160)	(5,859)
Gross profit	5,437	4,963	2,729	2,595
Selling, general and administrative expenses	(2,902)	(2,683)	(1,432)	(1,370)
Non-order related research and development expenses	(699)	(610)	(346)	(319)
Other income (expense), net	21	230	11	(29)
Income from operations	1,857	1,900	962	877
Interest and dividend income	51	35	28	18
Interest and other finance expense	(153)	(153)	(45)	(74)
Non-operational pension (cost) credit	58	14	28	7
Income from continuing operations before taxes	1,813	1,796	973	828
Provision for taxes	(499)	(456)	(264)	(248)
Income from continuing operations, net of tax	1,314	1,340	709	580
Income (loss) from discontinued operations, net of tax	3	(1)	8	1
Net income	1,317	1,339	717	581
Net income attributable to noncontrolling interests	(64)	(90)	(36)	(56)
Net income attributable to ABB	1,253	1,249	681	525
Amounts attributable to ABB shareholders:				
Income from continuing operations, net of tax	1,250	1,250	673	524
Net income	1,253	1,249	681	525
Basic earnings per share attributable to ABB shareholders:				
Income from continuing operations, net of tax	0.59	0.58	0.32	0.24
Net income	0.59	0.58	0.32	0.25
Diluted earnings per share attributable to ABB shareholders:				
Income from continuing operations, net of tax	0.58	0.58	0.31	0.24
Net income	0.58	0.58	0.32	0.24
Weighted-average number of shares outstanding (in millions) used to compute:				
Basic earnings per share attributable to ABB shareholders	2,132	2,140	2,130	2,140
Diluted earnings per share attributable to ABB shareholders	2,142	2,149	2,138	2,151

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

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

	Six montl	hs ended	Three months ended	
(\$ in millions)	Jun. 30, 2018	Jun. 30, 2017	Jun. 30, 2018	Jun. 30, 2017
Total comprehensive income, net of tax	984	1,872	192	916
Total comprehensive income attributable to noncontrolling interests, net of tax	(60)	(103)	(16)	(60)
Total comprehensive income attributable to ABB shareholders, net of tax	924	1,769	176	856

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

ABB Ltd Interim Consolidated Balance Sheets (unaudited)

(\$ in millions, except share data)	Jun. 30, 2018	Dec. 31, 2017
Cash and equivalents	3,283	4,526
Marketable securities and short-term investments	794	1,102
Receivables, net	9,001	8,267
Contract assets	2,281	2,149
Inventories, net	5,934	5,255
Prepaid expenses	315	189
Other current assets	735	647
Total current assets	22,343	22,135
Property, plant and equipment, net	5,621	5,363
Goodwill	12,402	11,199
Other intangible assets, net	2,959	2,622
Prepaid pension and other employee benefits	154	144
Investments in equity-accounted companies	166	158
Deferred taxes	1,033	1,250
Other non-current assets	513	587
Total assets	45,191	43,458
Assessment and the first terminal to the second sec	5 022	5.410
Accounts payable, trade	5,933	5,419
Contract liabilities	2,757	2,908
Short-term debt and current maturities of long-term debt	3,786	738
Provisions for warranties	1,136	1,231
Other provisions	1,697	1,882
Other current liabilities	4,076	4,291
Total current liabilities	19,385	16,469
Long-term debt	6,661	6,709
Pension and other employee benefits	1,795	1,882
Deferred taxes	1,269	1,099
Other non-current liabilities	1,902	1,950
Total liabilities	31,012	28,109
Commitments and contingencies		
Stockholders' equity:		
Capital stock		
(2,168,148,264 issued shares at June 30, 2018, and December 31, 2017)	188	188
Additional paid-in capital	26	29
Retained earnings	18,919	19,594
Accumulated other comprehensive loss	(4,683)	(4,345)
Treasury stock, at cost	(, , , , , , , ,	· //
(36,372,358 and 29,541,775 shares at June 30, 2018, and December 31, 2017, respectively)	(824)	(647)
Total ABB stockholders' equity	13,626	14,819
Noncontrolling interests	553	530
Total stockholders' equity	14,179	15,349
Total liabilities and stockholders' equity Due to rounding numbers presented may not add to the totals provided	45,191	43,458

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

ABB Ltd Interim Consolidated Statements of Cash Flows (unaudited)

	Six month	ns ended	Three mon	ths ended	
(\$ in millions)	Jun. 30, 2018	Jun. 30, 2017	Jun. 30, 2018	Jun. 30, 2017	
Operating activities:					
Net income	1,317	1,339	717	581	
Adjustments to reconcile net income to net cash provided by operating activities:					
Depreciation and amortization	565	521	280	258	
Deferred taxes	50	43	54	51	
Net loss (gain) from derivatives and foreign exchange	93	(29)	20	(14)	
Net loss (gain) from sale of property, plant and equipment	(39)	(10)	(12)	(4)	
Net loss (gain) from sale of businesses	5	(331)	(1)	7	
Share-based payment arrangements	28	27	16	15	
Other	(34)	37	(34)	29	
Changes in operating assets and liabilities:					
Trade receivables, net	(142)	(143)	(145)	(237)	
Contract assets and liabilities	(306)	(109)	1	40	
Inventories, net	(447)	(234)	(198)	10	
Trade payables	218	229	432	240	
Accrued liabilities	(159)	(133)	113	(335)	
Provisions, net	(218)	(21)	(87)	(75)	
Income taxes payable and receivable	(87)	(7)	(49)	(33)	
Other assets and liabilities, net	(352)	(203)	(97)	(66)	
Net cash provided by operating activities	492	976	1,010	467	
Investing activities:					
Purchases of marketable securities (available-for-sale)	(34)	(274)	(17)	(153)	
Purchases of short-term investments	(24)	(74)	(24)	(21)	
Purchases of property, plant and equipment and intangible assets	(435)	(417)	(197)	(225)	
Acquisition of businesses (net of cash acquired)					
and increases in cost- and equity-accounted companies	(2,518)	(18)	(2,514)	(3)	
Proceeds from sales of marketable securities (available-for-sale)	31	490	16	477	
Proceeds from maturity of marketable securities (available-for-sale)	124	100	-		
Proceeds from short-term investments	285	874	23	53	
Proceeds from sales of property, plant and equipment	45	30	19	10	
Proceeds from sales of businesses (net of transaction costs	(0)	670		45	
and cash disposed) and cost- and equity-accounted companies	(9)	673	1	15	
Net cash from settlement of foreign currency derivatives	(29)	33	(34)	16	
Other investing activities	(123)	22	(115)	8	
Net cash provided by (used in) investing activities	(2,687)	1,439	(2,842)	177	
Financing activities:					
Net changes in debt with original maturities of 90 days or less	1,243	410	1,030	400	
Increase in debt	1,901	890	1,894	843	
Repayment of debt	(97)	(590)	(53)	(571)	
Delivery of shares	42	86	40	3	
Purchase of treasury stock	(250)	(251)	_	(251)	
Dividends paid	(1,717)	(1,635)	(1,717)	(1,635)	
Dividends paid to noncontrolling shareholders	(126)	(116)	(119)	(107)	
Other financing activities	11	(15)	(4)	(9)	
Net cash provided by (used in) financing activities	1,007	(1,221)	1,071	(1,327)	
rece cash provided by (asea in) rinancing accivities	2,001	(1,111)	2,012	(1,52.1)	
Effects of exchange rate changes on cash and equivalents	(55)	180	(118)	139	
Net change in cash and equivalents – continuing operations	(1,243)	1,374	(879)	(544)	
Cash and equivalents, beginning of period	4,526	3,644	4,162	5,562	
Cash and equivalents, end of period	3,283	5,018	3,283	5,018	
Supplementary disclosure of cash flow information:					
Interest paid	118	115	56	63	
Taxes paid	531	443	237	242	

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

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

(\$ in millions)	Capital stock	Additional paid-in capital	Retained earnings	Total accumu- lated other comprehensive loss	Treasury stock	Total ABB stockholders' equity	Non- controlling interests	Total stockholders' equity
Balance at January 1, 2017	192	24	19,925	(5,187)	(1,559)	13,395	502	13,897
Comprehensive income:								
Net income			1,249			1,249	90	1,339
Foreign currency translation								
adjustments, net of tax of \$(1)				564		564	13	577
Effect of change in fair value of								
available-for-sale securities,								
net of tax of \$0				2		2		2
Unrecognized income (expense)								
related to pensions and other								
postretirement plans,								
net of tax of \$(13)				(51)		(51)		(51)
Change in derivatives qualifying as								
cash flow hedges, net of tax of \$2				5		5		5
Total comprehensive income						1,769	103	1,872
Changes in noncontrolling interests						-	3	3
Dividends to								
noncontrolling shareholders						_	(127)	(127)
Dividends paid to shareholders			(1,622)			(1,622)		(1,622)
Share-based payment arrangements		27				27		27
Purchase of treasury stock					(251)	(251)		(251)
Delivery of shares		(23)			109	86		86
Balance at June 30, 2017	192	27	19,552	(4,667)	(1,701)	13,403	481	13,884

Balance at January 1, 2018	188	29	19,594	(4,345)	(647)	14,819	530	15,349
Cumulative effect of changes in								
accounting principles			(192)	(9)		(201)		(201)
Comprehensive income:								
Net income			1,253			1,253	64	1,317
Foreign currency translation								
adjustments, net of tax of \$1				(389)		(389)	(4)	(393)
Effect of change in fair value of								
available-for-sale securities,								
net of tax of \$(1)				(5)		(5)		(5)
Unrecognized income (expense)								
related to pensions and other								
postretirement plans,								
net of tax of \$25				84		84		84
Change in derivatives qualifying as								
cash flow hedges, net of tax of \$(3)				(19)		(19)		(19)
Total comprehensive income						924	60	984
Changes in noncontrolling interests						_	89	89
Dividends to								
noncontrolling shareholders						_	(126)	(126)
Dividends paid to shareholders			(1,736)			(1,736)		(1,736)
Share-based payment arrangements		28				28		28
Purchase of treasury stock					(249)	(249)		(249)
Delivery of shares		(30)			72	42		42
Balance at June 30, 2018	188	26	18,919	(4,683)	(824)	13,626	553	14,179

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

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:

December 31, 2017								
	Previously	As		Previously	As			
(\$ in millions)	reported	adjusted		reported	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.

${\bf Reclassification\ of\ Certain\ Tax\ Effects\ from\ Accumulated\ Other\ Comprehensive\ Income}$

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.

__

Note 3

Acquisitions and Divestments

Acquisitions

Acquisitions were as follows:

	Six months ended	Three months ended
(\$ in millions, except number of acquired businesses)	June 30, 2018	June 30, 2018
Acquisitions (net of cash acquired) ⁽¹⁾	2,498	2,498
Aggregate excess of purchase price over fair value of net assets acquired ⁽²⁾	1,367	1,371
Number of acquired businesses	1	1

⁽¹⁾ Excluding changes in cost and equity accounted companies

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.

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 businesss).

⁽²⁾ Recorded as goodwill.

⁽²⁾ Primarily relates to the acquisition of GEIS.

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							
						Marketable			
		Gross	Gross			securities			
		unrealized	unrealized		Cash and	and short-term			
(\$ in millions)	Cost basis	gains	losses	Fair value	equivalents	investments			
Cash	1,776			1,776	1,776	-			
Time deposits	1,546			1,546	1,507	39			
Other short-term investments	297			297	_	297			
Debt securities available-for-sale:									
U.S. government obligations	212	-	(5)	207	_	207			
Corporate	92	-	(2)	90	_	90			
Equity securities available-for-sale	147	14	_	161	_	161			
Total	4,070	14	(7)	4,077	3,283	794			

		December 31, 2017						
						Marketable		
		Gross	Gross			securities		
		unrealized	unrealized		Cash and	and short-term		
(\$ in millions)	Cost basis	gains	losses	Fair value	equivalents	investments		
Cash	1,963			1,963	1,963	-		
Time deposits	2,853			2,853	2,563	290		
Other short-term investments	305			305	_	305		
Debt securities available-for-sale:								
U.S. government obligations	127	_	(2)	125	_	125		
Other government obligations	2	_	_	2	_	2		
Corporate	215	1	(1)	215	_	215		
Equity securities available-for-sale	152	13	_	165	_	165		
Total	5,617	14	(3)	5,628	4,526	1,102		

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	Total notional amounts at					
(\$ in millions)	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	7	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)			Gains (losses) recl into income (eff	
Six months ended June 30,	2018	2017		2018	2017
Type of derivative			Location		
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)			•	lassified from OCI fective portion)
Three months ended June 30,	2018	2017		2018	2017
Type of derivative			Location		
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 er	nded June 30,	Three months	Three months ended June 30,		
(\$ in millions)	2018	2017	2018	2017		
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	Gains (losses) recognized in income							
designated as a hedge		Six months end	ded June 30,	Three months e	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	Total revenues	67	(23)	51	(2)			
contracts	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	e assets	Derivative liabilities			
	Current in	Non-current in	Current in	Non-current in		
	"Other current	"Other non-current	"Other current	"Other non-current		
(\$ in millions)	assets"	assets"	liabilities"	liabilities"		
Derivatives designated as hedging instruments:						
Foreign exchange contracts	1	-	3	2		
Commodity contracts	-	-	2	-		
Interest rate contracts	-	25	-	7		
Cash-settled call options	8	7	-	-		
Total	9	32	5	9		
Derivatives not designated as hedging instruments:						
Foreign exchange contracts	152	22	222	54		
Commodity contracts	14	2	12	-		
Cross-currency interest rate swaps	5	-	-	-		
Embedded foreign exchange derivatives	48	31	11	3		
Total	219	55	245	57		
Total fair value	228	87	250	66		

	December 31, 2017					
-	Derivativ	e assets	Derivative liabilities			
	Current in	Non-current in	Current in	Non-current in		
	"Other current	"Other non-current	"Other current	"Other non-current		
(\$ in millions)	assets"	assets"	liabilities"	liabilities"		
Derivatives designated as hedging instruments:		.,				
Foreign exchange contracts	4	-	3	1		
Commodity contracts	6	_	-	_		
Interest rate contracts	-	42	-	4		
Cash-settled call options	25	16	-	_		
Total	35	58	3	5		
Derivatives not designated as hedging instruments:						
Foreign exchange contracts	142	25	190	63		
Commodity contracts	35	1	6	_		
Cross-currency interest rate swaps	_	_	2	_		
Cash-settled call options	_	1	_	_		
Embedded foreign exchange derivatives	32	16	22	7		
Total	209	43	220	70		
Total fair value	244	101	223	75		

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:

(\$ in millions)	June 30, 2018					
Type of agreement or	Gross amount of recognized	Derivative liabilities eligible for set-off	Cash collateral	Non-cash collateral	Net asset	
similar arrangement	assets	in case of default	received	received	exposure	
Derivatives	236	(160)	_	-	76	
Reverse repurchase agreements	297	-	_	(297)	-	
Total	533	(160)	_	(297)	76	

(\$ in millions)		June 30, 2018					
	Gross amount	Derivative liabilities	Cash	Non-cash			
Type of agreement or	of recognized	eligible for set-off	collateral	collateral	Net liability		
similar arrangement	liabilities	in case of default	pledged	pledged	exposure		
Derivatives	302	(160)	-	=	142		
Total	302	(160)	-	-	142		

(\$ in millions)	December 31, 2017				
	Gross amount	Derivative liabilities	Cash	Non-cash	
Type of agreement or	of recognized	eligible for set-off	collateral	collateral	Net asset
similar arrangement	assets	in case of default	received	received	exposure
Derivatives	297	(172)	-	-	125
Reverse repurchase agreements	305	-	_	(305)	-
Total	602	(172)	-	(305)	125

(\$ in millions)	December 31, 2017					
	Gross amount	Derivative liabilities	Cash	Non-cash		
Type of agreement or	of recognized	eligible for set-off	collateral	collateral	Net liability	
similar arrangement	liabilities	in case of default	pledged	pledged	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:

_	June 30, 2018				
(\$ in millions)	Level 1	Level 2	Level 3	Total fair value	
Assets					
Available-for-sale securities in "Marketable securities and short-term investments":					
Equity securities	_	161	-	161	
Debt securities—U.S. government obligations	207	_	-	207	
Debt securities—Corporate	_	90	-	90	
Derivative assets—current in "Other current assets"	_	228	-	228	
Derivative assets—non-current in "Other non-current assets"	_	87	-	87	
Total	207	566	-	773	
Liabilities					
Derivative liabilities—current in "Other current liabilities"	_	250	_	250	
Derivative liabilities—non-current in "Other non-current liabilities"	_	66	_	66	
Total	_	316	-	316	

		December 3	1, 2017	
(\$ in millions)	Level 1	Level 2	Level 3	Total fair value
Assets				
Available-for-sale securities in "Marketable securities and short-term investments":				
Equity securities	-	165	-	165
Debt securities—U.S. government obligations	125	-	-	125
Debt securities—Other government obligations	-	2	-	2
Debt securities—Corporate	-	215	-	215
Receivable in "Other non-current assets":				
Receivable under securities lending arrangement	79	-	-	79
Derivative assets—current in "Other current assets"	-	244	-	244
Derivative assets—non-current in "Other non-current assets"	-	101	-	101
Total	204	727	_	931
Liabilities				
Derivative liabilities—current in "Other current liabilities"	-	223	-	223
Derivative liabilities—non-current in "Other non-current liabilities"	_	75	_	75
Total	_	298	-	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:

	•	Ju	ne 30, 2018	•	
(\$ in millions)	Carrying value	Level 1	Level 2	Level 3	Total fair value
Assets					
Cash and equivalents (excluding available-for-sale securities					
with original maturities up to 3 months):					
Cash	1,776	1,776	_	-	1,776
Time deposits	1,507	_	1,507	-	1,507
Marketable securities and short-term investments					
(excluding available-for-sale securities):					
Time deposits	39	_	39	-	39
Receivables under reverse repurchase agreements	297	_	297	-	297
Other non-current assets:					
Loans granted	34	_	36	-	36
Restricted time deposits	37	37	-	_	37
Liabilities					
Short-term debt and current maturities of long-term debt					
(excluding capital lease obligations)	3,756	1,870	1,886	_	3,756
Long-term debt (excluding capital lease obligations)	6,482	5,851	728	_	6,579

·	·	Dece	mber 31, 2017		
(\$ in millions)	Carrying value	Level 1	Level 2	Level 3	Total fair value
Assets					
Cash and equivalents (excluding available-for-sale securities					
with original maturities up to 3 months):					
Cash	1,963	1,963	_	-	1,963
Time deposits	2,563	-	2,563	-	2,563
Marketable securities and short-term investments					
(excluding available-for-sale securities):					
Time deposits	290	-	290	-	290
Receivables under reverse repurchase agreements	305	-	305	-	305
Other non-current assets:					
Loans granted	32	-	33	-	33
Restricted time deposits	38	38	-	_	38
Liabilities					
Short-term debt and current maturities of long-term debt					
(excluding capital lease obligations)	704	400	304	-	704
Long-term debt (excluding capital lease obligations)	6,569	6,046	775	_	6,821

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)	2018	2017
Balance at January 1,	1,231	1,142
Net change in warranties due to acquisitions and divestments	11	-
Claims paid in cash or in kind	(179)	(165)
Net increase in provision for changes in estimates, warranties issued and warranties expired	110	148
Exchange rate differences	(37)	68
Balance at June 30,	1,136	1,193

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:

	Six months ended June 30,				
	2018		20	2017	
	Contract	Contract	Contract	Contract	
(\$ in millions)	assets	liabilities	assets	liabilities	
Revenue recognized, which was included in the Contract liabilities balance at Jan 1, 2018/2017		1,233		1,630	
Additions to Contract liabilities - excluding amounts recognized as revenue during the period		(1,167)		(1,228)	
Receivables recognized that were included in the Contract asset balance at Jan 1, 2018/2017	(965)		(1,250)		

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:

		June 30	, 2018			December 3	1, 2017	, 2017 Carrying value ⁽¹⁾	
(in millions)	Nominal	outstanding	Carryi	ng value ⁽¹⁾	Nominal o	outstanding	Carryin		
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
- \$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 pens	sion benefits	Other postretirement benefits		
Six months ended June 30,	2018	2017	2018	2017	
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 pens	sion benefits	Other postretir	ement benefits
Three months ended June 30,	2018	2017	2018	2017
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 pens	sion benefits	Other postretirement benefits		
Six months ended June 30,	2018	2017	2018	2017	
Total contributions to defined benefit pension and					
other postretirement benefit plans	95	95	4	4	

(\$ in millions)	Defined pension benefits		Other postretirement benefits		
Three months ended June 30,	2018	2017	2018	2017	
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 e	nded June 30,	Three months ended June 30,	
(\$ in millions, except per share data in \$)	2018	2017	2018	2017
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 ende	d June 30,	Three months ended June 30,	
(\$ in millions, except per share data in \$)	2018	2017	2018	2017
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
Effect of dilutive securities:				
Call options and shares	10	9	8	11
Adjusted weighted-average number of shares outstanding (in millions)	2,142	2,149	2,138	2,151
Diluted earnings per share attributable to ABB shareholders:				
Income from continuing operations, net of tax	0.58	0.58	0.31	0.24
Income (loss) from discontinued operations, net of tax	-	-	0.01	_
Net income	0.58	0.58	0.32	0.24

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:

		Unrealized gains	Pension and	Unrealized gains	
	Foreign currency	(losses) on	other	(losses) of cash	
	translation	available-for-sale	postretirement	flow hedge	
(\$ in millions)	adjustments	securities	plan adjustments	derivatives	Total OCI
Balance at January 1, 2017	(3,592)	7	(1,601)	(1)	(5,187)
Other comprehensive (loss) income:					
Other comprehensive (loss) income					
before reclassifications	572	2	(103)	18	489
Amounts reclassified from OCI	-	-	46	(10)	36
Changes attributable to divestments	5	-	6	(3)	8
Total other comprehensive (loss) income	577	2	(51)	5	533
Less:					
Amounts attributable to					
noncontrolling interests	13	-	-	_	13
Balance at June 30, 2017	(3,028)	9	(1,652)	4	(4,667)

		Unrealized gains	Pension and	Unrealized gains		
	Foreign currency	(losses) on	other	(losses) of cash		
	translation	available-for-sale	postretirement	flow hedge		
(\$ in millions)	adjustments	securities	plan adjustments	derivatives	Total OCI	
Balance at January 1, 2018	(2,693)	8	(1,672)	12	(4,345)	
Cumulative effect of changes in						
accounting principles	=	(9)	-	-	(9)	
Other comprehensive (loss) income:						
Other comprehensive (loss) income						
before reclassifications	(404)	(5)	55	(32)	(386)	
Amounts reclassified from OCI	-	_	29	13	42	
Changes attributable to divestments	11	-	_	-	11	
Total other comprehensive (loss) income	(393)	(5)	84	(19)	(333)	
Less:						
Amounts attributable to						
noncontrolling interests	(4)	_	_	_	(4)	
Balance at June 30, 2018	(3,082)	(6)	(1,588)	(7)	(4,683)	

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

(\$ in millions)	Location of (gains) losses	Six month June		Three months ended June 30,	
Details about OCI components	reclassified from OCI	2018 2017		2018 2017	
Pension and other postretirement plan adjustmer	nts:				
Amortization of prior service cost (credit)	Non-operational pension (cost) credit ⁽¹⁾	(9)	16	(4)	8
Amortization of net actuarial loss	Non-operational pension (cost) credit ⁽¹⁾	48	44	24	22
Total before tax		39	60	20	30
Tax	Provision for taxes	(10)	(14)	(5)	(7)
Amounts reclassified from OCI		29	46	15	23

⁽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.

	Employee	Contract settlement,	
(\$ in millions)	severance costs	loss order and other costs	Total
Liability at January 1, 2015	-		-
Expenses	364	5	369
Cash payments	(34)	(1)	(35)
Liability at December 31, 2015	330	4	334
Expenses	232	3	235
Cash payments	(106)	(3)	(109)
Change in estimates	(102)	(1)	(103)
Exchange rate differences	(23)	-	(23)
Liability at December 31, 2016	331	3	334
Expenses	35	3	38
Cash payments	(110)	(5)	(115)
Change in estimates	(164)	-	(164)
Exchange rate differences	28	_	28
Liability at December 31, 2017	120	1	121
Cash payments	(47)	_	(47)
Change in estimates and exchange rate differences	(12)	-	(12)
Liability at June 30, 2018	61	1	62

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:

	Net cost incurred	Net cost incurred	Cumulative net	
	Six months ended	Three months ended	cost incurred up to	
(\$ in millions)	June 30, 2017 ⁽¹⁾	June 30, 2017 ⁽¹⁾	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.

			Cumulative costs
	Six months ended	Three months ended	incurred up to
(\$ in millions)	June 30,2017 ⁽¹⁾	June 30, 2017 ⁽²⁾	December 31, 2017
Employee severance costs	(46)	(24)	365
Estimated contract settlement, loss order and other costs	1	1	10
Inventory and long-lived asset impairments	_	-	10
Total	(45)	(23)	385

- (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,
- 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						
	Power	Electrification	Industrial	Robotics and	Corporate		
(\$ in millions)	Grids	Products	Automation	Motion	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	

		ed June 30, 2018				
	Power	Electrification	Industrial	Robotics and	Corporate	
(\$ in millions)	Grids	Products	Automation	Motion	and Other	Total
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	119	8,889
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	119	8,889
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	119	8,889
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						
	Power	Electrification	Industrial	Robotics and	Corporate		
(\$ in millions)	Grids	Products	Automation	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							
	Power	Electrification	Industrial	Robotics and	Corporate	Total		
(\$ in millions)	Grids	Products	Automation	Motion	and Other			
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 er	nded	Three months ended		
	June 30,		June 30,		
(\$ in millions)	2018	2017	2018	2017	
Operational EBITA:					
Power Grids	464	484	232	253	
Electrification Products	807	695	430	373	
Industrial Automation	522	417	260	211	
Robotics and Motion	712	596	374	314	
Corporate and Other and Intersegment elimination	(278)	(207)	(129)	(109)	
Consolidated Operational EBITA	2,227	1,985	1,167	1,042	
Acquisition-related amortization	(145)	(115)	(72)	(56)	
Restructuring and restructuring-related expenses ⁽¹⁾	(17)	(132)	(6)	(84)	
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	1	(7)	
Acquisition-related expenses and integration costs	(77)	(14)	(51)	(8)	
Certain other non-operational items	(59)	(150)	(30)	(48)	
Foreign exchange/commodity timing differences in income from operations:					
Unrealized gains and losses on derivatives (foreign exchange,					
commodities, embedded derivatives)	(66)	169	(46)	93	
Realized gains and losses on derivatives where the underlying hedged					
transaction has not yet been realized	(12)	18	(19)	8	
Unrealized foreign exchange movements on receivables/payables (and					
related assets/liabilities)	12	(96)	19	(61)	
Income from operations	1,857	1,900	962	877	
Interest and dividend income	51	35	28	18	
Interest and other finance expense	(153)	(153)	(45)	(74)	
Non-operational pension (cost) credit	58	14	28	7	
Income from continuing operations before taxes	1,813	1,796	973	828	

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

	Total assets ⁽¹⁾			
(\$ in millions)	June 30, 2018	December 31, 2017		
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.





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

	H1 2018 compared to H1 2017							
	Order growth rate							
	US\$	Foreign			US\$	Foreign		
	(as	exchange	Portfolio		(as	exchange	Portfolio	
Division	reported)	impact	changes	Comparable	reported)	impact	changes	Comparable
Power Grids	6%	-3%	0%	3%	-2%	-4%	0%	-6%
Electrification Products	9%	-5%	0%	4%	8%	-5%	0%	3%
Industrial Automation	30%	-7%	-14%	9%	20%	-6%	-14%	0%
Robotics and Motion	16%	-5%	0%	11%	13%	-5%	0%	8%
ABB Group	15%	-5%	-3%	7%	7%	-4%	-2%	1%

Regional comparable growth rate reconciliation

				Q2 2018 compar	ed to Q2 2017			
		Order grov	vth rate					
	US\$	Foreign		· .	US\$	Foreign		
	(as	exchange	Portfolio		(as	exchange	Portfolio	
Region	reported)	impact	changes	Comparable	reported)	impact	changes	Comparable
Europe	22%	-6%	-6%	10%	9%	-5%	-4%	0%
The Americas	7%	1%	-1%	7%	3%	1%	-1%	3%
Asia, Middle East and Africa	11%	-3%	-1%	7%	3%	-3%	-1%	-1%
ABB Group	14%	-3%	-3%	8%	5%	-2%	-2%	1%

		H1 2018 compared to H1 2017									
	'	Order grov	vth rate								
	US\$	Foreign			US\$	Foreign					
	(as	exchange	Portfolio		(as	exchange	Portfolio				
Region	reported)	impact	changes	Comparable	reported)	impact	changes	Comparable			
Europe	18%	-10%	-5%	3%	13%	-9%	-5%	-1%			
The Americas	4%	0%	-1%	3%	3%	0%	-1%	2%			
Asia, Middle East and Africa	21%	-6%	-2%	13%	6%	-5%	0%	1%			
ABB Group	15%	-5%	-3%	7%	7%	-4%	-2%	1%			

Order backlog growth rate reconciliation

	June 3	0, 2018 compa	red to June 30	, 2017
	US\$	Foreign		
	(as	exchange	Portfolio	
Division	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

	Q	2 2018 compar	ed to Q2 201	7	H1 2018 compared to H1 2017			
	US\$	Foreign			US\$	Foreign		
	(as	exchange	Portfolio		(as	exchange	Portfolio	
	reported)	impact	changes	Comparable	reported)	impact	changes	Comparable
Large orders	3%	-1%	0%	2%	16%	-6%	-3%	7%
Base orders	14%	-2%	-3%	9%	15%	-5%	-3%	7%
Service orders	5%	-3%	0%	2%	10%	-5%	0%	5%
Service revenues	16%	-3%	0%	13%	16%	-6%	1%	11%

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 compar	red to Q2 2016			
		Order grov	wth rate			owth rate		
	US\$	Foreign			US\$	Foreign		
	(as	exchange	Portfolio		(as	exchange	Portfolio	
Division	reported)	impact	changes	Comparable	reported)	impact	changes	Comparable
Power Grids	-6%	2%	0%	-4%	-1%	2%	0%	1%
Electrification Products	-4%	3%	0%	-1%	-1%	3%	0%	2%
Industrial Automation	6%	2%	0%	8%	-9%	2%	0%	-7%
Robotics and Motion	12%	3%	0%	15%	3%	2%	0%	5%
ABB Group	0%	3%	0%	3%	-3%	3%	1%	1%

				H1 2017 compai	ed to H1 2016			
		Order grov	vth rate		Revenue growth rate			
	US\$	Foreign			US\$	Foreign		
	(as	exchange	Portfolio		(as	exchange	Portfolio	
Division	reported)	impact	changes	Comparable	reported)	impact	changes	Comparable
Power Grids	-13%	2%	0%	-11%	1%	2%	0%	3%
Electrification Products	-2%	3%	0%	1%	0%	2%	0%	2%
Industrial Automation	-2%	2%	0%	0%	-8%	2%	0%	-6%
Robotics and Motion	8%	3%	0%	11%	3%	2%	0%	5%
ABB Group	-5%	3%	2%	0%	-2%	3%	1%	2%

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 end	ded June 30,	Three months end	ded June 30,
(\$ in millions)	2018	2017	2018	2017
Operational EBITA	2,227	1,985	1,167	1,042
Acquisition-related amortization	(145)	(115)	(72)	(56)
Restructuring and restructuring-related expenses ⁽¹⁾	(17)	(132)	(6)	(84)
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	1	(7)
Acquisition-related expenses and integration costs	(77)	(14)	(51)	(8)
Certain other non-operational items	(59)	(150)	(30)	(48)
Foreign exchange/commodity timing differences in income from operations:				
Unrealized gains and losses on derivatives (foreign exchange,				
commodities, embedded derivatives)	(66)	169	(46)	93
Realized gains and losses on derivatives where the underlying hedged				
transaction has not yet been realized	(12)	18	(19)	8
Unrealized foreign exchange movements on receivables/payables (and				
related assets/liabilities)	12	(96)	19	(61)
Income from operations	1,857	1,900	962	877
Interest and dividend income	51	35	28	18
Interest and other finance expense	(153)	(153)	(45)	(74)
Non-operational pension (cost) credit	58	14	28	7
Income from continuing operations before taxes	1,813	1,796	973	828
Provision for taxes	(499)	(456)	(264)	(248)
Income from continuing operations, net of tax	1,314	1,340	709	580
Income (loss) from discontinued operations, net of tax	3	(1)	8	1
Net income	1,317	1,339	717	581

 $\textbf{(1)} \ Amounts \ in \ 2017 \ also \ include \ the \ incremental \ implementation \ costs \ in \ relation \ to \ the \ White \ Collar \ Productivity \ program.$

		:	Six months ended	d June 30, 2018			
					Corporate and		
					Other and		
	Power	Electrification	Industrial	Robotics	Intersegment		
(\$ in millions, unless otherwise indicated)	Grids	Products	Automation	and Motion	elimination	Consolidated	
Total revenues	4,739	5,167	3,698	4,525	(613)	17,516	
Foreign exchange/commodity timing							
differences in total revenues:							
Unrealized gains and losses							
on derivatives	64	27	7	23	6	127	
Realized gains and losses on derivatives							
where the underlying hedged							
transaction has not yet been realized	16	_	6	(1)	(5)	16	
Unrealized foreign exchange movements							
on receivables (and related assets)	(24)	(13)	(7)	(11)	(1)	(56)	
Operational revenues	4,795	5,181	3,704	4,536	(613)	17,603	
Income (loss) from operations	369	661	460	666	(299)	1,857	
Acquisition-related amortization	20	39	44	32	10	145	
Restructuring and							
restructuring-related expenses	11	3	2	2	(1)	17	
Changes in retained obligations of							
divested businesses	-	_	_	_	_	-	
Changes in pre-acquisition estimates	_	1	_	_	_	1	
Gains and losses from sale of businesses	-	2	3	_	_	5	
Acquisition-related expenses and							
integration costs	4	68	2	_	3	77	
Certain other non-operational items	27	15	_	5	12	59	
Foreign exchange/commodity timing							
differences in income from operations:							
Unrealized gains and losses on derivatives							
(foreign exchange, commodities,							
embedded derivatives)	39	22	1	4	_	66	
Realized gains and losses on derivatives							
where the underlying hedged							
transaction has not yet been realized	10	1	7	_	(6)	12	
Unrealized foreign exchange movements							
on receivables/payables							
(and related assets/liabilities)	(16)	(5)	3	3	3	(12)	
Operational EBITA	464	807	522	712	(278)	2,227	
-						•	
Operational EBITA margin (%)	9.7%	15.6%	14.1%	15.7%	n.a.	12.7%	

			Six months ended	d June 30, 2017		
					Corporate and	
					Other and	
	Power	Electrification	Industrial	Robotics	Intersegment	
(\$ in millions, unless otherwise indicated)	Grids	Products	Automation	and Motion	elimination	Consolidated
Total revenues	4,858	4,802	3,088	4,002	(442)	16,308
Foreign exchange/commodity timing						
differences in total revenues:						
Unrealized gains and losses						
on derivatives	(79)	(42)	(27)	(19)	(12)	(179)
Realized gains and losses on derivatives						
where the underlying hedged						
transaction has not yet been realized	(13)	_	(2)	1	1	(13)
Unrealized foreign exchange movements						
on receivables (and related assets)	51	15	14	8	(1)	87
Operational revenues	4,817	4,775	3,073	3,992	(454)	16,203
Income (local from anomations	437	641	420	543	(1.41)	1.000
Income (loss) from operations		52	420	34	(141) 8	1,900
Acquisition-related amortization	17	52	4	34	8	115
Restructuring and	24	12	0	27	62	422
restructuring-related expenses ⁽¹⁾	21	13	9	27	62	132
Changes in retained obligations of						
divested businesses		<u>-</u>			94	94
Changes in pre-acquisition estimates		2		-	-	2
Gains and losses from sale of businesses		_	(2)	-	(329)	(331)
Acquisition-related expenses and						
integration costs		3	7		4	14
Certain other non-operational items	52	13	_	_	85	150
Foreign exchange/commodity timing						
differences in income from operations:						
Unrealized gains and losses on derivatives						
(foreign exchange, commodities,						
embedded derivatives)	(92)	(39)	(36)	(17)	15	(169)
Realized gains and losses on derivatives						
where the underlying hedged						
transaction has not yet been realized	(13)	-	(2)	-	(3)	(18)
Unrealized foreign exchange movements						
on receivables/payables						
(and related assets/liabilities)	62	10	17	9	(2)	96
Operational EBITA	484	695	417	596	-207	1,985
Operational EBITA margin (%)	10.0%	14.6%	13.6%	14.9%	n.a.	12.3%

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

		TI	ree months ende	ed June 30, 2018	1	
_					Corporate and	
					Other and	
	Power	Electrification	Industrial	Robotics	Intersegment	
(\$ in millions, unless otherwise indicated)	Grids	Products	Automation	and Motion	elimination	Consolidated
Total revenues	2,354	2,673	1,839	2,316	(293)	8,889
Foreign exchange/commodity timing						
differences in total revenues:						
Unrealized gains and losses						
on derivatives	47	31	11	19	-	108
Realized gains and losses on derivatives						
where the underlying hedged						
transaction has not yet been realized	12	_	3	(1)	6	20
Unrealized foreign exchange movements						
on receivables (and related assets)	(17)	(11)	(7)	(8)	(10)	(53)
Operational revenues	2,396	2,693	1,846	2,326	(297)	8,964
Income (loss) from operations	176	343	223	353	(133)	962
Acquisition-related amortization	10	19	21	16	6	72
Restructuring and						
restructuring-related expenses	7	(1)		(2)	2	6
Changes in retained obligations of						
divested businesses	-	-	-	-	-	_
Changes in pre-acquisition estimates	-	1	-	-	-	1
Gains and losses from sale of businesses	-	2	-	-	(3)	(1)
Acquisition-related expenses and						
integration costs	3	44	1	-	3	51
Certain other non-operational items	12	10	_	4	4	30
Foreign exchange/commodity timing						
differences in income from operations:						
Unrealized gains and losses on derivatives						
(foreign exchange, commodities,						
embedded derivatives)	30	16	9	2	(11)	46
Realized gains and losses on derivatives						
where the underlying hedged						
transaction has not yet been realized	8	1	5	_	5	19
Unrealized foreign exchange movements						
on receivables/payables						
(and related assets/liabilities)	(14)	(5)	1	1	(2)	(19)
Operational EBITA	232	430	260	374	(129)	1,167
					ζ==27	_,
Operational EBITA margin (%)	9.7%	16.0%	14.1%	16.1%	n.a.	13.0%

		T	hree months ende	ed June 30, 2017		
					Corporate and	
					Other and	
	Power	Electrification	Industrial	Robotics	Intersegment	
(\$ in millions, unless otherwise indicated)	Grids	Products	Automation	and Motion	elimination	Consolidated
Total revenues	2,507	2,509	1,575	2,082	(219)	8,454
Foreign exchange/commodity timing						
differences in total revenues:						
Unrealized gains and losses						
on derivatives	(29)	(19)	(9)	(1)	6	(52)
Realized gains and losses on derivatives						
where the underlying hedged						
transaction has not yet been realized	(8)	_	(2)	1	(1)	(10
Unrealized foreign exchange movements						
on receivables (and related assets)	24	3	9	2	(2)	36
Operational revenues	2,494	2,493	1,573	2,084	(216)	8,428
Income (loss) from operations	226	334	209	282	(174)	877
Acquisition-related amortization	9	26	2	16	3	56
Restructuring and						
restructuring-related expenses ⁽¹⁾	18	13	5	17	31	84
Changes in pre-acquisition estimates	-	2	-	-	-	i
Gains and losses from sale of businesses	_	_	(2)	_	9	•
Acquisition-related expenses and						
integration costs	1	3	4	_	_	8
Certain other non-operational items	24	9	-	-	15	48
Foreign exchange/commodity timing						
differences in income from operations:						
Unrealized gains and losses on derivatives						
(foreign exchange, commodities,						
embedded derivatives)	(51)	(23)	(19)	(7)	7	(93
Realized gains and losses on derivatives						
where the underlying hedged						
transaction has not yet been realized	(10)	_	_	_	2	(8)
Unrealized foreign exchange movements						
on receivables/payables						
(and related assets/liabilities)	36	9	12	6	(2)	6:
Operational EBITA	253	373	211	314	(109)	1,042
Operational EBITA margin (%)	10.1%	15.0%	13.4%	15.1%	n.a.	12.4%

⁽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.

	Six months ended :	June 30,	
(\$ in millions, except per share data in \$)	2018	2017	Growth ⁽³⁾
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,			
(\$ in millions, except per share data in \$)	2018	2017	Growth ⁽³	
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 Whi	to Collar Productivity program			

 $[\]textbf{(1)} \ Amounts \ in \ 2017 \ also \ include \ the \ incremental \ implementation \ costs \ in \ relation \ to \ the \ White \ Collar \ Productivity \ program.$

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.

(\$ 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

⁽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 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.

(\$ in millions, unless otherwise indicated)	June 30, 2018	June 30, 2017
Net working capital:		
Receivables, net	9,001	7,995
Contract assets	2,281	2,310
Inventories, net	5,934	5,135
Prepaid expenses	315	268
Accounts payable, trade	(5,933)	(4,888)
Contract liabilities	(2,757)	(3,033)
Other current liabilities ⁽¹⁾	(3,501)	(3,088)
Net working capital	5,340	4,699
Total revenues for the three months ended:		
June 30, 2018 / 2017	8,889	8,454
March 31, 2018 / 2017	8,627	7,854
December 31, 2017 / 2016	9,280	8,993
September 30, 2017 / 2016	8,724	8,255
Adjustment to annualize/eliminate revenues of certain acquisitions/divestments	2,586	(228)
Adjusted revenues for the trailing twelve months	38,106	33,328
Net working capital as a percentage of revenues (%)	14.0%	14.1%

⁽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

	Twelve r	Twelve months to			
(\$ in millions, unless otherwise indicated)	June 30, 2018	December 31, 2017			
Net cash provided by operating activities	3,315	3,799			
Adjusted for the effects of:					
Purchases of property, plant and equipment and intangible assets	(967)	(949)			
Proceeds from sale of property, plant and equipment	81	. 66			
Changes in financing receivables and other non-current receivables	3	10			
Free cash flow	2,432	2,926			
Net income attributable to ABB	2,217	2,213			
Free cash flow conversion to net income	110%	132%			

Reconciliation of the trailing twelve months to June 30, 2018

		Purchases of		Changes in	
	Net cash	property, plant	Proceeds	financing	
	provided by	and equipment	from sale of	receivables and	Net income
	operating	and intangible	property, plant	other non-current	attributable
(\$ in millions)	activities	assets	and equipment	receivables	to ABB
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

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

 ${\bf Book\text{-}to\text{-}bill\ ratio\ is\ calculated\ as\ Orders\ received\ divided\ by\ Total\ revenues.}$

	Six months e	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	

ABB Ltd

Corporate Communications P.O. Box 8131 8050 Zurich Switzerland

Tel: +41 (0)43 317 71 11 Fax: +41 (0)43 317 79 58

www.abb.com

