

H1 2017 Results

Solid Revenue and Net Profit Growth

Executing Mid-term Strategic Plan



Agenda

- 1. One year after Airgas closing, executing mid-term strategic plan
- 2. H1 2017 Improved performance
- 3. Pursued investments
- 4. 2017 Outlook



One Year After Airgas Closing, Executing Mid-term Strategic Plan

Benoît Potier
Chairman & Chief Executive Officer



Executing Mid-term Strategic Plan

2016



- Operational merger
- First synergies delivered



- All entities aligned
- Customer centric



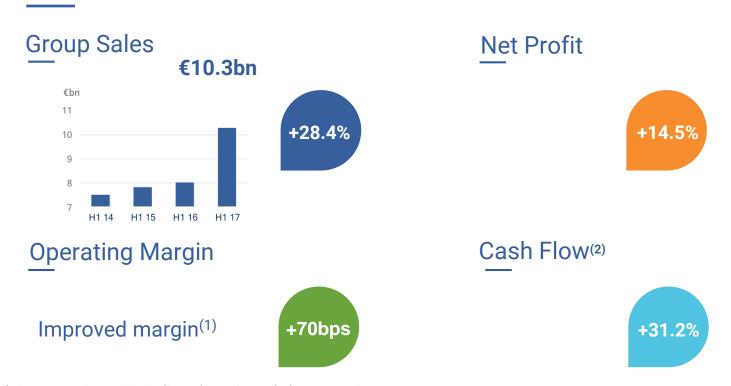
G&S focus

<u>20</u>17

Focus on **Growth** and **Performance**



H1 2017 Highlights



(1) Group margin vs. 2016 adjusted margin, excluding energy impact

(2) After changes in Working Capital Requirements



H1 2017 Improved Performance

Fabienne Lecorvaisier

Executive Vice President & Chief Financial Officer



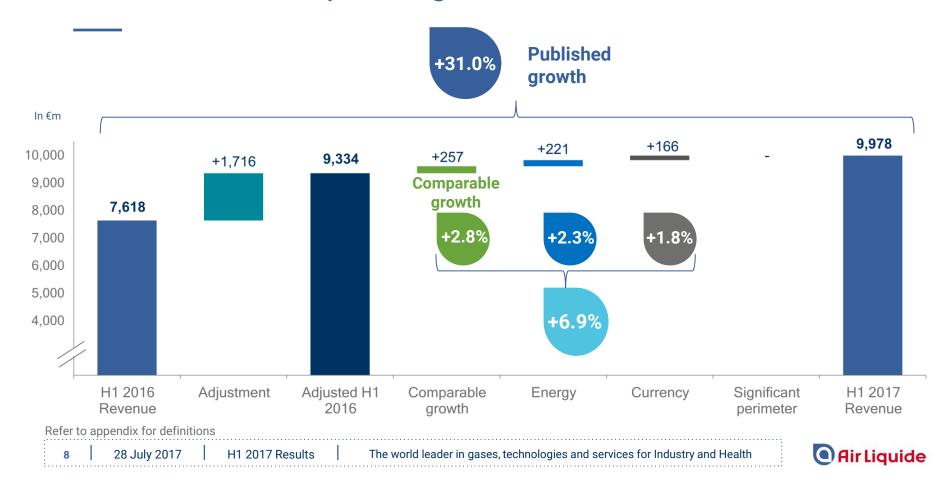
Strengthening Performance, IM Recovering

- H1 2017 Group sales up +28.4% as published
 - +2.8% G&S comparable growth to adjusted H1 2016*
 - IM recovering at +3.1% in Q2, higher daily sales
- +70 bps OIR margin improvement excluding energy
- Delivering efficiencies & synergies
- Strong Cash Flow growth



^{*}Refer to appendix for definitions

G&S Revenue Step Change



Confirmed Improvement in G&S

Sales in €m	H1 16	H1 17	H1 17/16 As published	H1 17/16 Adjusted	H1 17/16 Adjusted Comparable
Gas & Services	7,618	9,978	+31.0%	+6.9%	+2.8%
Engineering & Construction	254	146	-42.7%		-43.3%
Global Markets & Technologies	146	169	+15.8%		+16.4%
Group Total	8,018	10,293	+28.4%	+5.7%	+1.8%

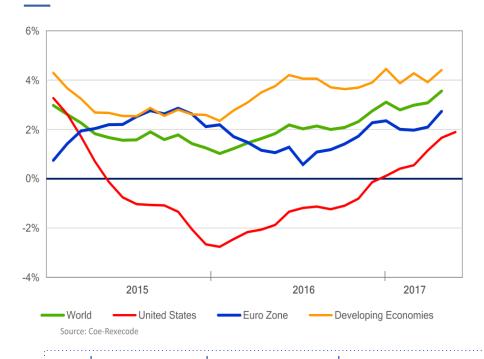
Refer to appendix for definitions

Better Economic Indicators and End Markets

Industrial Production

28 July 2017

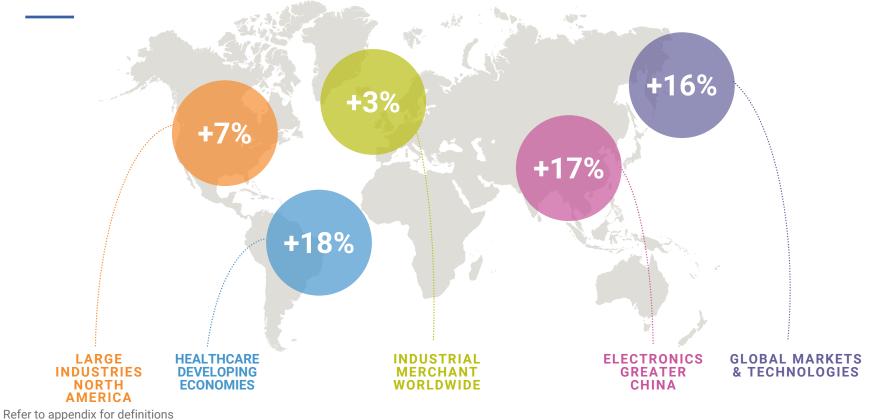
Year on Year in % (3-month rolling average)







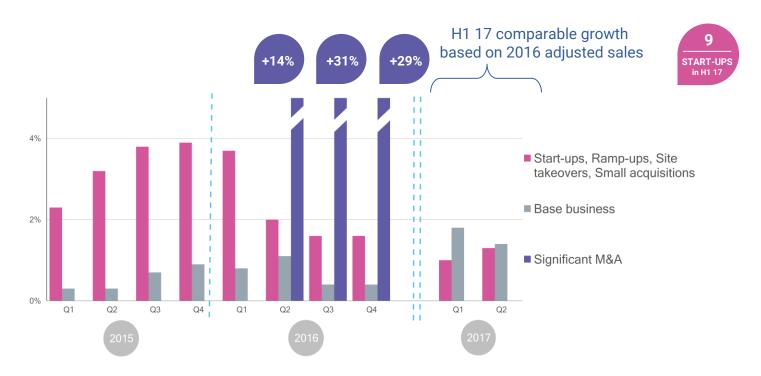
Multiple Growth Drivers in H1 2017



verer to appendix for definitions



Stronger Base Contribution in H1 2017



G&S Quarterly Growth Analysis



Q2 - IM Recovering in North America and Europe



Robust North America

- LI: record volumes for air gases, lower CoGen, several turnarounds
- IM: recovering in US & Canada
- EL: growing gas sales, lower E&I
- Strong HHC: South America and Canada

Improved underlying activity, less working days

- LI: better volumes; stoppage in Ukraine
- IM: stronger daily sales, volumes up in bulk and cylinders, stabilized pricing
- Sound **HC** with low bolt-on M&A



Q2 - Solid Asia, Stronger Middle-East



Improved IM and EL

- LI: maintenance turnarounds in China
- IM: very strong bulk and cylinder volumes in China, improving Japan
- EL: growth >+10% excluding E&I, very dynamic Greater China

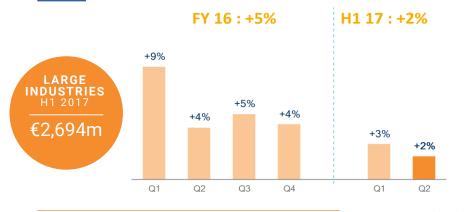
Yanbu driving performance

- Yanbu (KSA) running at full capacity
- Dynamic activity in Egypt
- Strong **HC** in South Africa



Q2 - Solid LI, IM Driving Growth









G&S Comparable Sales Growth

Strong volumes in all regions



- High global demand for air gases and hydrogen
- Limited contribution from start-ups & ramp-ups
- Numerous maintenance turnarounds

Continued improvement in IM



- Recovering in North America, Europe and Asia
- Most end markets improving
- Price firming



Q2 - Sound HC, Positive Momentum in EL



Strong growth in developing economies



- Solid underlying activity
- Working days impact in Europe
- Low M&A

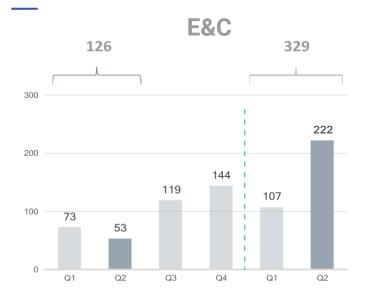
Robust Carrier Gases and Advanced Materials



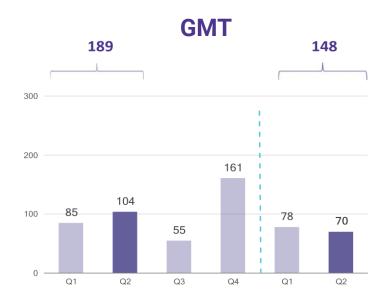
- 3 **start-ups** in Carrier Gases
- Advanced Materials double-digit growth
- Excluding E&I, growth close to +10%

Order Intake Improving again in E&C

Group and Third Party Orders



- Group projects
- Energy and Chemical projects for 3rd parties (China, Korea)



- Space equipment (mainly Ariane 6)
- Maritime tanks
- Biogas purification, hydrogen recharging stations



Improved OIR Margin

In €m	H1 16	H1 16 Adjusted	H1 17	H1 17/16	H1 17/H1 16 Adjusted	H1 17/H1 16 Adjusted Comparable
Revenue	8,018	9,734	10,293	+28.4%	+5.7%	+1.8%
Purchases	(2,925)		(3,908)	+33.6%		
Personnel expenses	(1,587)		(2,098)	.27.20/		
Other net income and expenses	(1,422)		(1,731)	+27.3%		
Operating profit before depreciation	2,085	2,401	2,556	+22.6%		
Depreciation and amortization	(718)	(858)	(900)	+25.4%		
Operating Income Recurring	1,367	1,543	1,656	+21.2%	+7.3%	+6.0%
OIR Margin	17.0%	15.8%	16.1%			+30bps
OIR margin excluding energy effect			16.5%			+70bps

NB: 2016 figures have been restated to account for IFRS 5, discontinued operations.



Efficiencies Aligned with NEOS





Cumulated Synergies Since Merger = US\$138m

Cost Synergies

CYLINDER **OPERATIONS**

- Implemented >90%
- 19 site closures

BULK **OPERATIONS**

- Next major step in Q4 2017: merger of logistic optimization systems
- Best practices under deployment

PROCESS

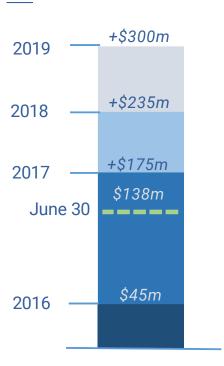
PROCUREMENT

 Sourcing contracts renegotiated at maturity



- Implemented >90%
- Elimination of duplicate corporate services

Cumulative Synergies



Revenue Synergies



- Cross-selling
- ····· Small on-site generators
 - Large US customers in Mexico

Net Profit Up +14.5%

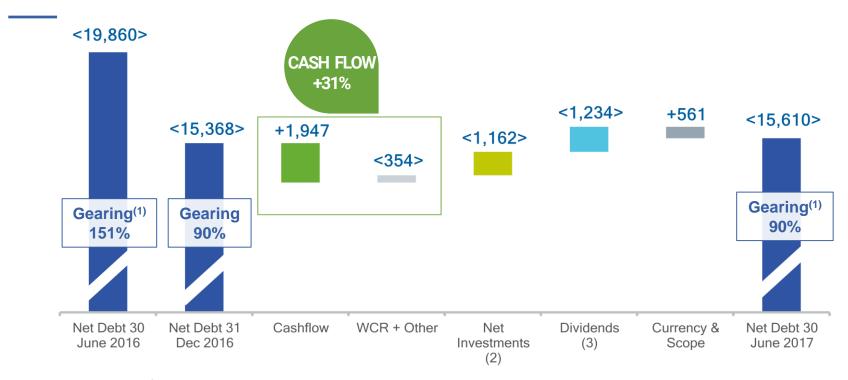
In €m	H1 16	H1 17	H1 17/16
Revenue	8,018	10,293	+28.4%
Operating Income Recurring	1,367	1,656	+21.2%
Other non-recurring operating income & expenses	(84)	(2)	
Operating income	1,283	1,654	+29.0%
Net financial costs and other net financial expenses	(171)	(259)	
Income taxes	(264)	(389)	
Tax rate	23.8%	27.9%	
Share of profit of associates	3	1	
Minority interests	(42)	(49)	
Net result from discontinued operations	2	(30)	
Net profit (Group share)	811	928	+14.5%
Earnings per share (in €)	2.30	2.40	+4.3%

NB: 2016 figures have been restated to account for IFRS 5, discontinued operations.

H1 2016 earnings per share restated for the impact of the preferential subscription rights allocated to shareholders as part of the capital increase.



Strong Cash Flow Growth



- (1) June 30 gearings adjusted for dividend seasonality; June 30 2017 gearing excluding Forex.
- (2) Including acquisitions, transactions with minority shareholders, net of divestitures.
- (3) Including share purchases and capital increases.



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Pursued Investments

Fabienne Lecorvaisier

Executive Vice President & Chief Financial Officer



Stable Portfolio, Selective Decisions

Investment
Opportunities⁽¹⁾
12-month portfolio



- Mainly small to medium size projects
- Only a few projects above €100m

(1) See definitions in appendix

H1 2017 Investment Decisions⁽¹⁾



- Long-term contracts in Belgium and Oman
- EL & IM contracts in China
- Continuing small bolt-on acquisitions (Airgas, China)

H1 2017 Start-up/ Ramp-up Sales Growth Contribution

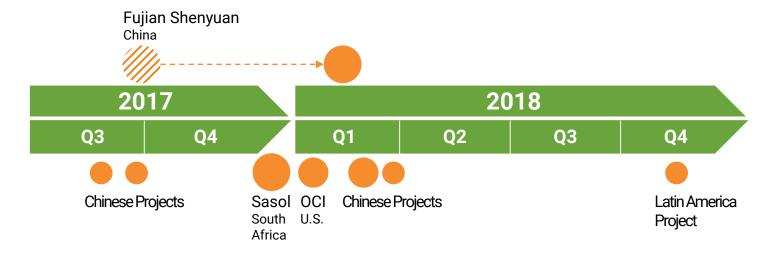


- Americas main region ~40%
- Asia ~33%



Start-Ups: Higher Sales Contribution in 2018

Major LI Projects



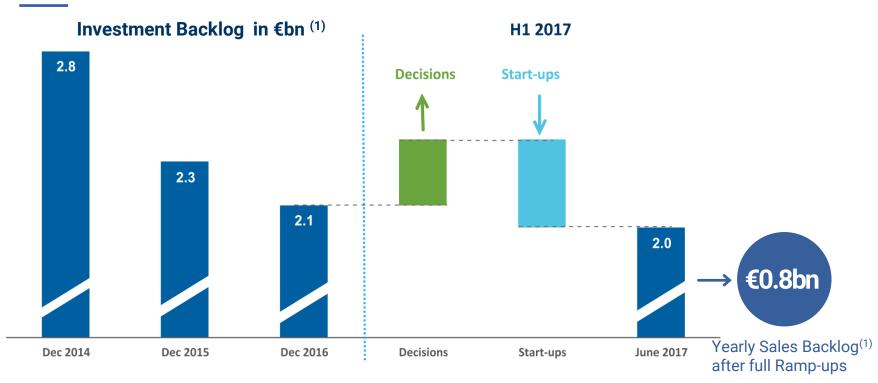
Yearly Sales Contribution







Backlog in Line with Growth Expectations



(1) See definitions in appendix





2017 Outlook

H1 2017

- NEOS fully deployed
- IM recovering
- Efficiencies and synergies on track
- Strong Cash Flow growth

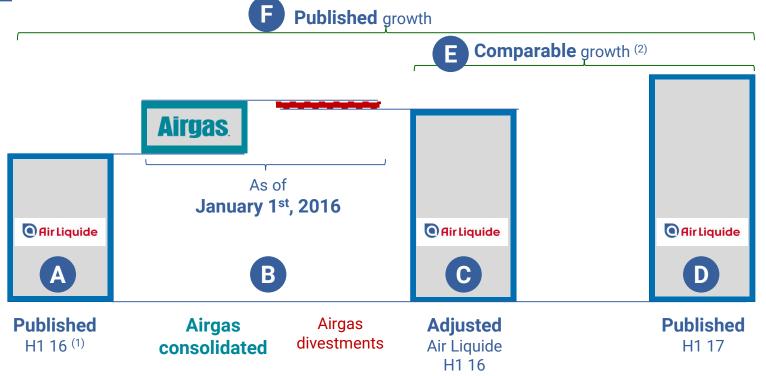


"Assuming a comparable environment,
Air Liquide is confident in its ability to deliver net profit growth in 2017"

H1 2017 Appendix



Details: Adjusted Sales Used as a Comparison Basis (1/2)



- (1) Excluding Air Liquide Welding and Aqua Lung
- (2) Excluding currency and energy price fluctuation impact



Details: Adjusted Sales Used as a Comparison Basis (2/2)

A	Published H1 16 excluding Air Liquide Welding and Aqua Lung	Published H1 16 Air Liquide sales excluding Air Liquide Welding and Aqua Lung (IFRS 5, discontinued operations)
В	Airgas consolidated - Airgas divestments	Published H1 16 Airgas sales with divestments fully completed as of January 1st, 2016
C	Adjusted Air Liquide sales	2016 starting point: A + B
D	Published H1 17	Published H1 17 Air Liquide sales
E	Comparable growth	Growth between H1 16 adjusted Air Liquide sales and published H1 17 sales excluding change and energy versus
G	Published growth	Growth between published H1 16 Air Liquide sales, excluding Air Liquide Welding and Aqua Lung, and published H1 17 Air Liquide sales versus

2016 comparable sales growth excluding currency, energy price fluctuation and Airgas impact Comparable sales growth for Americas for Q4 16, FY16 are estimated due to the merger of Airgas and Air Liquide US operations



Impact of Currency and Energy on G&S Revenue

Currency	In €m	Q1 16	Q2 16	Q3 16	Q4 16	Q1 17	Q2 17
	€/USD	+14	(14)	(3)	+10	+64	+49
	€/CNY	(10)	(28)	(23)	(20)	(7)	(8)
	€/JP¥	+14	+22	+42	+30	+13	(1)
	Others	(89)	(98)	(32)	(17)	+46	+10
	Total currency impact	(71)	(118)	(16)	+3	+116	+50
	Average rate	Q1 16	Q2 16	Q3 16	Q4 16	Q1 17	Q2 17
	€/USD	1.10	1.13	1.12	1.08	1.07	1.10
	€/CNY	7.21	7.38	7.44	7.37	7.33	7.55
	€/JP¥	127.0	121.9	114.3	117.8	121.0	122.2
Natural Gas	In €m						
	Natural Gas Impact	(108)	(94)	(82)	+13	+104	+75
Electricity	In €m						
	Electricity Impact	(36)	(32)	(18)	+3	+25	+17

Refer to appendix for definitions

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Consolidated P&L

In €m	H1 2016	H1 2017
Revenue	8,018	10,293
Cost of goods	(5,933)	(7,737)
Operating income recurring before depreciation	2,085	2,556
Depreciation and amortization expense	(718)	(900)
Operating Income Recurring	1,367	1,656
Net non-recurring operating income	(84)	(2)
Operating income	1,283	1,654
Net finance costs & other net financial expenses	(171)	(259)
Income taxes	(264)	(389)
Share of profit of associates	3	1
Net profit from discontinued operations	2	(30)
Profit for the period	853	977
- Minority Interest	42	49
- Net Profit (Group share)	811	928
Basic earnings per share (in €) (1)	2.30	2.40

(1) H1 2016 Basic earnings per share restated for the impact of the preferential subscription rights allocated to shareholders as part of the capital increase



Consolidated Balance Sheet Simplified - In €m

ASSETS	31/12/2016	30/06/2017
Goodwill	13,890	13,299
Fixed assets	22,003	20,905
Other non-current assets	960	1,047
Total non-current assets	36,853	35,251
Inventories & work in-progress	1,323	1,362
Trade receivables & other current assets	4,090	3,973
Cash and cash equivalents *	1,576	943
Total current assets	6,989	6,278
Assets held for sale	276	277
Total assets	44,118	41,807
	31/12/2016	30/06/2017
Net debt	15,368	15,610
Net debt ratio	89.7%	90.9%

EQUITY AND LIABILITIES	31/12/2016	30/06/2017
Shareholders' equity	16,742	15,676
Minority interests	383	373
Total equity	17,125	16,049
Provisions & deferred tax liabilities	4,971	4,711
Non-current borrowings	14,890	13,915
Other non-current liabilities	504	281
Total equity and non current liabilities	37,490	34,956
Provisions & deferred tax liabilities	280	251
Trade payables & other current liabilities	4,103	3,765
Current borrowings*	2,064	2,676
Total liabilities	6,447	6,692
Liabilities held for sale	181	159
Total equity and liabilities	44,118	41,807



^{*} Including fair value of derivatives

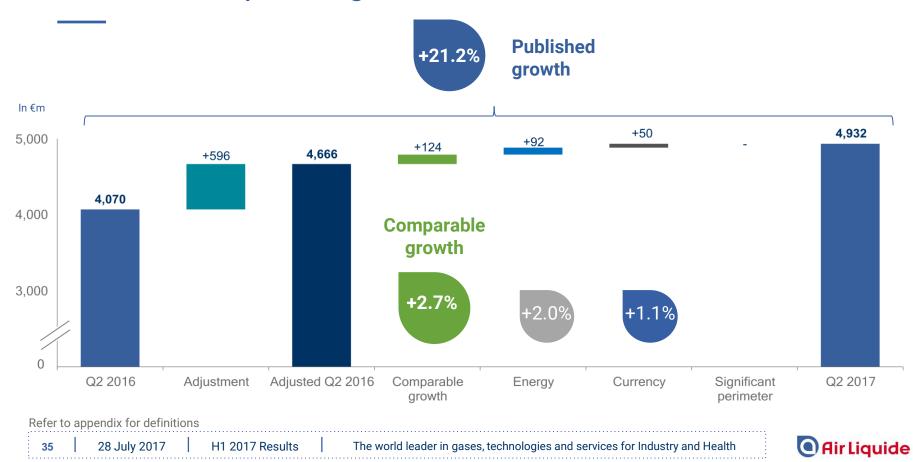
Cash Flow Statement

In €m	H1 2016 (a)	H1 2017
Funds provided by operations	1,597	1,947
Changes in Working Capital	(335)	(317)
Other items	(47)	(37)
Net cash from operating activities	1,215	1,593
Purchase of PPE* and intangible assets	(1,055)	(1,108)
Purchase of financial assets and the impact of changes in scope	(12,100)	(86)
Proceeds from sale of PPE*, intangible and financial assets	50	36
Net cash in investing activities	(13,105)	(1,158)
Distribution	(996)	(1,103)
Increase in capital stock	103	27
Purchase of treasury shares	0	(158)
Transactions with minority shareholders	0	(4)
Impact of Exchange rate changes and net indebtedness of newly consolidated companies & others	162	561
Change in net indebtedness	(12,621)	(242)

^{*} PPE: Property, plant and equipment.

⁽a) The cash flow statement for the 1st half 2016 has been restated in accordance with IAS 8 in order to include the restated net cost of financial indebtedness from the Airgas acquisition.

Q2 - G&S Step Change



Revenue Analysis by Quarter and by Business Line

Sales in €m	Q1 16	Q2 16	Q3 16	Q4 16	Q1 17	Q2 17	Q2 17/16 as published	Q2 17/16 comparable
Large Industries	1,207	1,181	1,261	1,388	1,392	1,302	+10.3%	+1.8%
Industrial Merchant	1,238	1,726	2,308	2,293	2,384	2,373	+37.5%	+3.1%
Healthcare	695	756	814	846	850	840	+11.1%	+3.5%
Electronics	408	407	400	403	420	417	+2.4%	+1.2%
Gas & Services	3,548	4,070	4,783	4,930	5,046	4,932	+21.2%	+2.7%
Engineering & Construction	124	130	105	115	53	93	-28.8%	-29.1%
Global Markets & Technologies	65	81	73	111	77	92	+13.3%	+14.1%
Group Total	3,737	4,281	4,961	5,156	5,176	5,117	+19.5%	+2.0%

Refer to appendix for definitions

Revenue Analysis by Quarter and by Geography

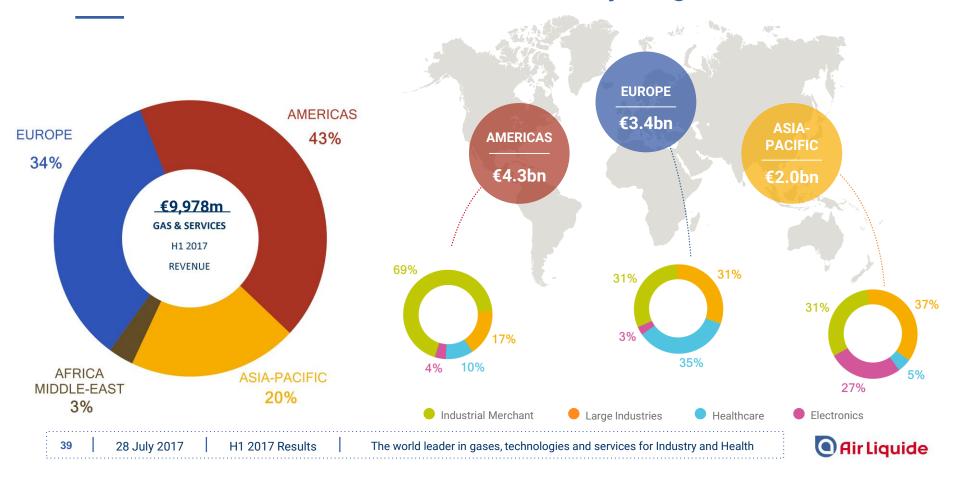
Sales in €m	Q1 16	Q2 16	Q3 16	Q4 16	Q1 17	Q2 17	Q2 17/16 as published	Q2 17/16 comparable
Americas	824	1,361	2,042	2,003	2,142	2,109	+54.9%	+2.9%
Europe	1,614	1,611	1,601	1,767	1,710	1,661	+3.2%	+1.5%
Asia-Pacific	966	954	997	1,019	1,024	1,008	+5.7%	+4.0%
Middle-East, Africa	144	144	143	141	170	154	+6.8%	+4.3%
Gas & Services	3,548	4,070	4,783	4,930	5,046	4,932	+21.2%	+2.7%
Engineering & Construction	124	130	105	115	53	93	-28.8%	-29.1%
Global Markets & Technologies	65	81	73	111	77	92	+13.3%	+14.1%
Group Total	3,737	4,281	4,961	5,156	5,176	5,117	+19.5%	+2.0%

G&S Revenue Growth by Quarter and by Impact

	Growth as published	Natural Gas	Electricity	Currency	Significant perimeter	Comparable growth
Q1 2016	-1.8%	-3.0%	-1.0%	-2.0%	+0.0%	+4.2%
Q2 2016	+10.3%	-2.6%	-0.9%	-3.2%	+13.9%	+3.1%
Q3 2016	+29.9%	-2.3%	-0.5%	-0.4%	+31.1%	+2.0%
Q4 2016	+30.8%	+0.4%	+0.0%	+0.0%	+28.7%	+1.7%
Q1 2017	+42.2%	+2.2%	+0.6%	+2.5%	N/A	+2.8%
Q2 2017	+21.2%	+1.6%	+0.4%	+1.1%	N/A	+2.7%



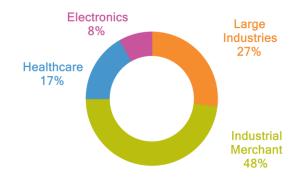
H1 2017 G&S Revenue Breakdown by Region

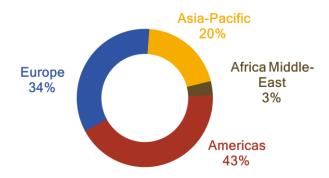


A Re-balanced Footprint

H1 2017 G&S Revenue









Americas

Q2 Gas & Services Sales: €2,109m

INDUSTRIAL MERCHANT

- **IM recovering** in North America
- Bulk and cylinder volumes up
- Improvement in almost all end-markets
- Strong demand from Energy market segment in Canada

LARGE INDUSTRIES

- +5% growth in H1, modest Q2
- Solid air gases volumes, lower co-gen
- Several turnarounds in hydrogen
- Very strong growth in South America

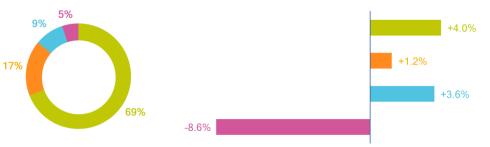
HEALTHCARE

- Dynamic South America: Brazil and Argentina
- Canada: solid growth and contribution from an acquisition

ELECTRONICS

- Double-digit growth in Advanced Materials
- Lower E&I sales vs. high Q2 2016





In €m	H1 2017	Growth as published	Comparable growth
Sales	4,251	+94.5%	+3.3%
OIR	670	+55.5%	
OIR/Sales	15.8%	-390bps	-360bps

Refer to appendix for definitions

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Europe

Q2 Gas & Services Sales: €1,661m

INDUSTRIAL MERCHANT

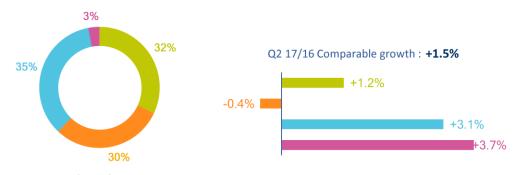
- Despite fewer working days, positive Q2 growth
- Increased daily sales in Q2 vs Q1
- IM recovering, especially in Southern Europe and Benelux
- Bulk and cylinder volumes up
- All end-markets growing

LARGE INDUSTRIES

- High volumes in air gases (steel) and hydrogen (refineries)
- Customer maintenance turnarounds
- Eastern Europe impacted by stoppage in Ukraine

HEALTHCARE

- Strong growth in Home Healthcare
- Medical gases impacted by fewer working days
- Solid Hygiene and Specialty Ingredients



In €m	H1 2017	Growth as published	Comparable growth
Sales	3,371	+4.6%	+2.0%
OIR	637	-0.3%	
OIR/Sales	18.9%	-90bps	-50bps



Asia-Pacific

Q2 Gas & Services Sales: €1,008m

INDUSTRIAL MERCHANT

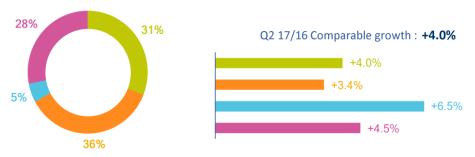
- Buoyant China (+17% in Q2) with very strong growth both in cylinders and bulk
- Improving Japan
- Singapore: lower E&I sales vs. high Q2 16

LARGE INDUSTRIES

- Strong demand from customers in Korea and Japan
- Ramp-up of a new unit in Australia
- Turnarounds in China

ELECTRONICS

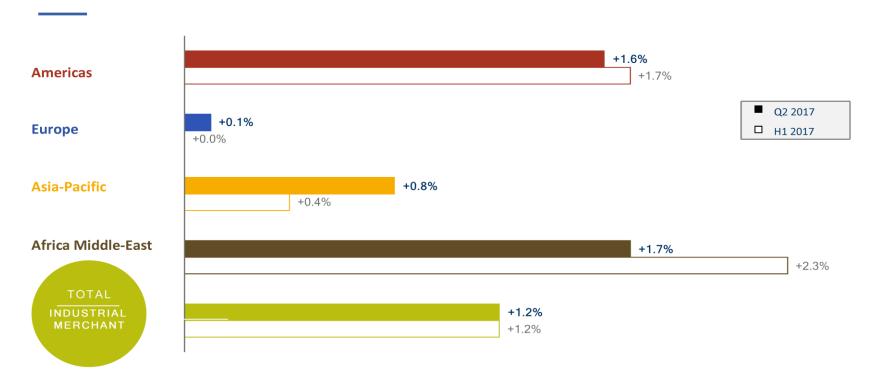
- Double digit growth excluding E&I
- Very dynamic Advanced Materials
- Strong growth in carrier gases and services



In €m	H1 2017	Growth as published	Comparable growth
Sales	2,032	+5.9%	+2.8%
OIR	401	+16.3%	
OIR/Sales	19.7%	+170bps	+200bps



Industrial Merchant Pricing







Operating Margin (OIR/Revenue)

		H1 2016	2016
	Group	17.0%	16.7%
2016	Group Adjusted	15.8%	16.1%
	Gas & Services	19.1%	18.7%
		As published	Excl. Energy
	Group	16.1%	16.5%
H1 2017	Gas & Services	17.6%	18.1%

H1 2017 operating margin excluding energy **improved +70bps** compared to adjusted H1 2016

NB: 2016 figures have been restated to account for IFRS 5, discontinued operations.



Investment Cycle – Definitions

Investment opportunities at end of the period

- Investment opportunities under consideration by the Group for decision within 12 months.
- Industrial projects with investment value > €5m for Large Industries and > €3m for other business lines.
- Includes asset replacements or efficiency projects. Excludes maintenance and safety.

Investment backlog at end of the period

- Cumulated industrial investment value of projects decided but not yet started.
- Industrial projects with value > €10m, including asset replacements or efficiency projects, excluding maintenance and safety.

Sales backlog

Cumulated expected sales per year generated by the current investment backlog after full ramp-up.

Decisions of the period

- Cumulated value of industrial and financial investment decisions.
- Industrial, growth and non-growth projects including asset replacements, efficiency, maintenance and safety.
- Financial decisions (acquisitions).



Gas & Services Industrial Capex by Geography



G&S capex⁽¹⁾ / sales

	H1 2016	H1 2017
Europe	7.7%	8.4%
Americas	16.2%	8.4%
Asia-Pacific	14.1%	13.4%
Africa Middle-East	29.2%	27.8%
Total	12.6%	10.1%

(1) Gross industrial investments.

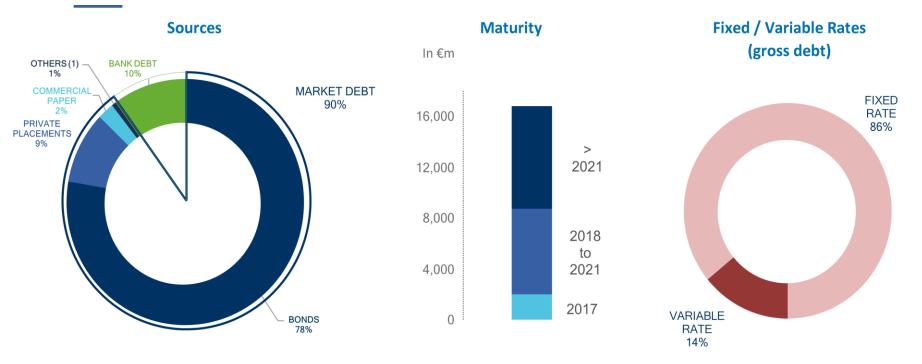
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Financing Structure

As of June 30, 2017



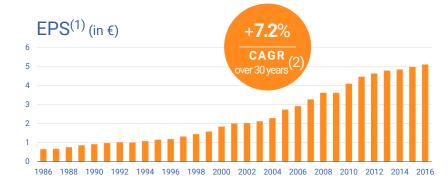
(1) Others: Finance leases and put options granted to minority shareholders.





Regular and Sustained Performance









(1) Adjusted for the 2-for-1 share split in 2007, for attribution of free shares and for a factor of 0.974 reflecting the value of the rights of the capital increase completed in October 2016. (2) Calculated according to prevailing accounting rules over 30 years.



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