

H1 2018 Activity

Strong Growth in Line with NEOS

Solid Performance

Business Development Acceleration

iduide

Paris, 30 July 2018

### Agenda

- 1. Strong growth in line with NEOS
- 2. Solid performance and strong cash flow
- 3. Business development acceleration and quality investment opportunities
- 4. Confirmed 2018 guidance



# Strong Growth in Line with NEOS

Benoît Potier
Chairman & Chief Executive Officer



## Strong Growth and Solid Performance in H1 2018



Growth in all **Business Lines** 



Driven by efficiencies and synergies

G&S Operating Margin<sup>(2)</sup>





As **published** 





From operations

- (1) Comparable growth
- (2) Excluding energy impact
- (3) After change in Working Capital Requirements

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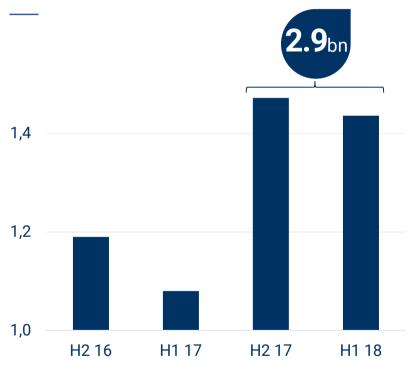


## **Business Development Acceleration...**





#### Investment Decisions - in €bn



### ... While Deploying Key Strategic Initiatives ...

#### **Large Industries**

- **Digital operations** in 3 zones
- **New investments** in key basins

#### Healthcare

- √ e-Health running solutions
- **Entry in new countries** Colombia and Saudi Arabia



- Web portals in place
- **Increased density** acquisitions in China
- Airgas fully integrated

#### **Electronics**

- Ramp up of etching gases
- **New contracts** Japan and Taiwan





# ... Supported by

- Customer-centric initiatives
- Integrated digital solutions
- Sustained innovation strategy





# Solid Performance and Strong Cash Flow

Fabienne Lecorvaisier
Executive Vice President &

Chief Financial Officer



# Highlights

- Group sales up ~+6%
  - ✓ Strong momentum in all activities
  - ✓ High base business growth
- Improved G&S OIR margin
- Strong operating cash flow and improved ROCE
- Quality investment opportunities



# Growth at the Top of NEOS Range

Sales in €m	H1 17	H1 18	<b>H1 18/17</b> Comparable	H1 18/17 As published	<b>Q2 18/17</b> Comparable
Gas & Services	9,978	9,769	+5.0%	-2.1%	+5.1%
Engineering & Construction	146	180	+29.8%	+23.6%	+4.3%
Global Markets & Technologies	169	213	+29.2%	+26.3%	+33.2%
Group Total	10,293	10,162	+5.8%	-1.3%	+5.6%

Note: NEOS sales growth objective between +6% and +8% CAGR 2016-2020, including Airgas scope effect in 2017 contributing +2% to the CAGR

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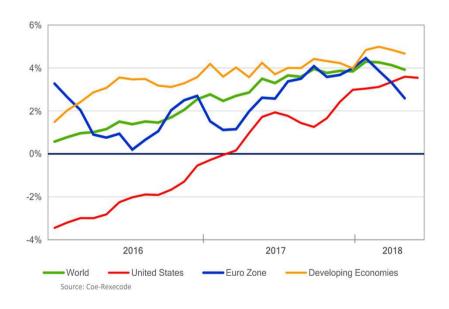


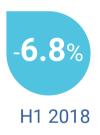
# Favorable Global Environment, Softening FX Headwind

#### **High Industrial Production Level**

Lower Negative FX Impact<sup>(1)</sup> in Q2

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







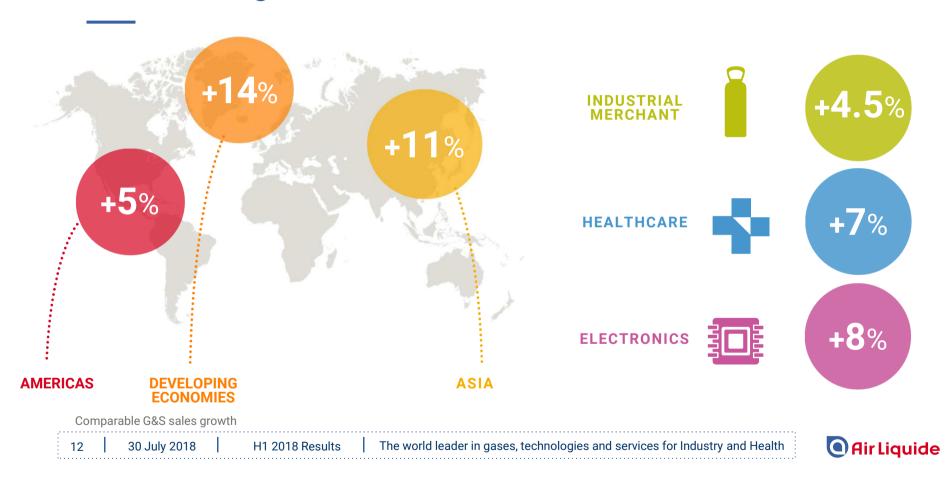
- (1) On Group sales
- (2) With an annual average EUR/USD exchange rate estimated at 1.19

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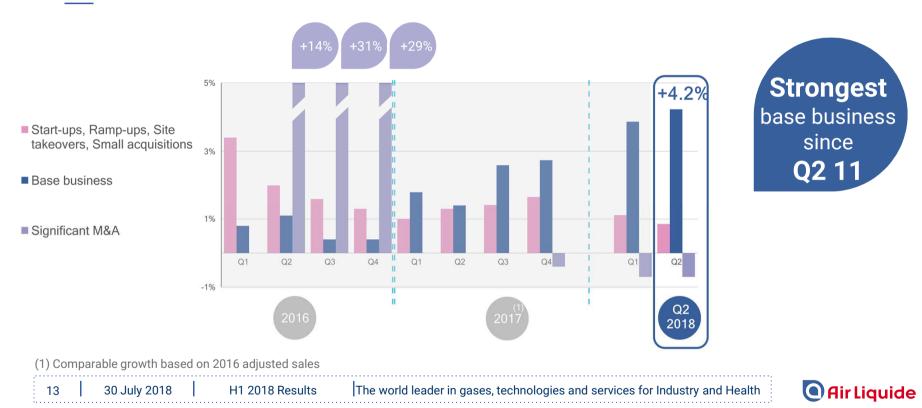


# Accelerating Growth Drivers in Q2



## Confirmed High Base Business Growth

**G&S Quarterly Growth Analysis** 



### Q2 - Very Robust Growth in Americas, Solid Europe





**G&S Comparable Sales Growth** 

#### Dynamic IM and HC, high EL

- LI: H<sub>2</sub> customer turnarounds in the U.S.
- ▲ IM: high growth, broad-based end market contribution
- ▲ HC: dynamic in the U.S., Canada and South America
- ▲ EL: thriving E&I, high carrier gases

#### Very high organic HC and solid IM

- **▼ LI**: numerous H<sub>2</sub> customer **turnarounds**
- ► IM: solid despite CO₂ shortage; improving pricing
- ▲ **HC**: **strong** in Germany, South Europe and Scandinavia
- ▲ Dynamic Developing Europe



### Q2 - Booming Asia, Major Start-Up in South Africa



#### Very strong momentum in all activities

- ▲ LI: high volumes in China, Singapore, South Korea and Australia
- ▲ IM: China driving growth with strong pricing and volumes; improving Australia
- ▲ EL: buoyant activity in all segments, very high E&I

#### Full impact of major start-up in LI

- ▲ LI: Sasol start-up in South Africa in Q4 17
- IM: solid growth in South Africa and Egypt
- ▲ **HC**: **strong**; contribution from acquisition in Saudi Arabia

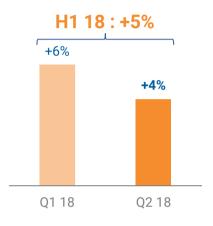


### Q2 - Solid IM, Turnarounds in LI





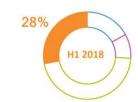




#### **Robust activity**



- ▲ Strong Manufacturing and Metal Fabrication markets
- **▼ CO**<sub>2</sub> **shortage** in Europe
- ▲ Pricing **+1.7**%



**G&S Comparable Sales Growth** 

#### Strong contribution from SU/RU

- ▲ Ramp-ups in South Africa and China
- ▲ Strong air gases volumes to Chemicals market
- ▼ H₂ customer turnarounds in Europe and the U.S.

### Q2 - Very Dynamic HC and EL

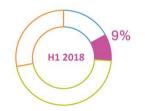


#### Very strong organic activity

# Dynamic HHC despite pricing pressure High Medical Gases

▲ Strong Hygiene and Specialty Ingredients





- ▲ Very strong IC and FPD markets
- ▲ Booming E&I
- ▲ **High growth** of gases and materials

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## Stronger Order Intake in E&C, Very Dynamic GM&T

#### Sales and Order intake(1) – in €m





(1) Group and third-party order intake

(2) Comparable growth

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# Improved G&S OIR Margin

In €m	H1 17	H1 18	H1 18/17	H1 18/17 Excl. Forex	H1 18/17 Comparable
Revenue	10,293	10,162	-1.3%	+5.5%	+5.8%
Purchases	(3,908)	(3,949)	+1.1%		
Personnel expenses	(2,098)	(2,041)	-2.9%		
Other net income and expenses	(1,730)	(1,676)	-2.5%		
Operating profit before depreciation	2,557	2,496	-2.4%		
Depreciation and amortization	(900)	(879)	-2.4%		
Operating Income Recurring	1,656	1,617	-2.3%	+4.8%	
OIR Margin	16.1%	15.9%			
OIR margin excluding energy effect		16.0%		-10bps	i
G&S OIR Margin	17.6%	17.8%			
G&S OIR margin excluding energy effect		17.9%	]	+30bps	i



### Efficiencies above NEOS Target





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Airgas Synergies Further Accelerated US\$300m now by mid-2019

US\$
260m

Costs ~US\$215m

Revenue ~US\$45m

• H1 2018 synergies = **US\$45m** 



(1) Defined in 2016

30 July 2018 H1

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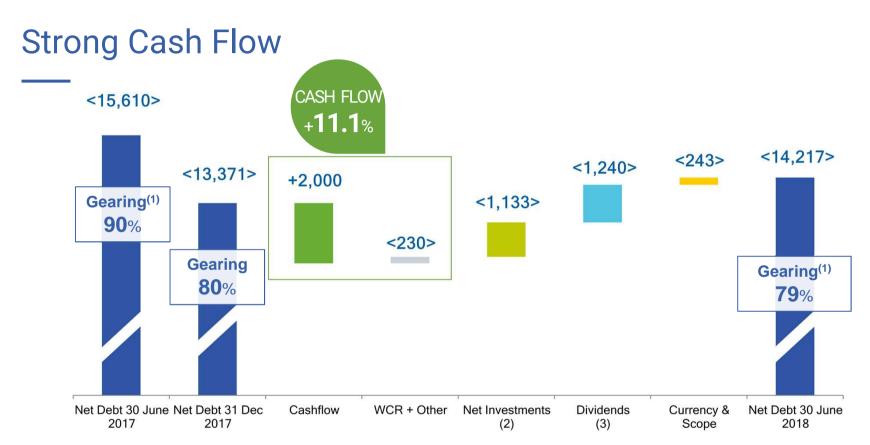
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### Net Profit +12%

In €m	H1 17	H1 18	H1 18/17
Revenue	10,293	10,162	-1.3%
Operating Income Recurring	1,656	1,617	-2.3%
Other non-recurring operating income & expenses	(2)	(30)	
Operating income	1,654	1,587	
Net financial costs and other net financial expenses	(259)	(145)	
Income taxes	(389)	(360)	
Tax rate	27.9%	24.9%	
Share of profit of associates	1	3	
Minority interests	(49)	(46)	
Net result from discontinued operations	(30)	0	
Net profit (Group share)	928	1,040	+12.1%
Earnings per share (in €)	2.18	2.44	+12.1%



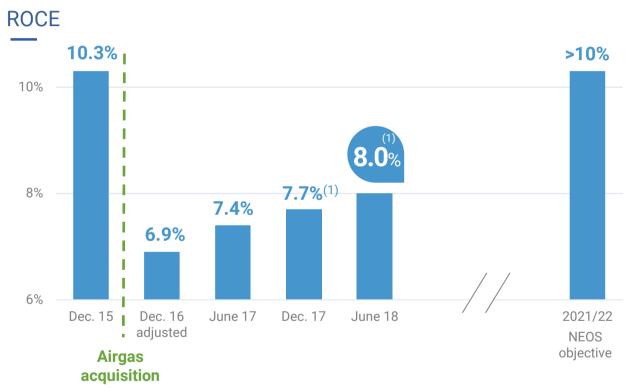


- (1) June 30 gearings adjusted for dividend seasonality.
- (2) Including acquisitions, transactions with minority shareholders, net of divestitures.
- (3) Including share purchases and capital increases.

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# Continued Improvement in ROCE





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# Business Development Acceleration and Quality Investment Opportunities

Fabienne Lecorvaisier

Executive Vice President & Chief Financial Officer



### **Increasing Opportunities**

Investment
Opportunities<sup>(1)</sup>
12-month portfolio



- Thriving bidding activity
- Medium-size opportunities

H1 2018 Investment Decisions<sup>(1)</sup>



- Major long-term contracts in LI,
   EL Carrier Gas contracts in Asia
- 500<sup>th</sup> acquisition for **Airgas**
- Increased capex for efficiencies

H1 2018
Start-up/Ramp-up
Sales Growth Contribution



- Asia and Africa Middle-East
- 7 start-ups

(1) See definitions in appendix

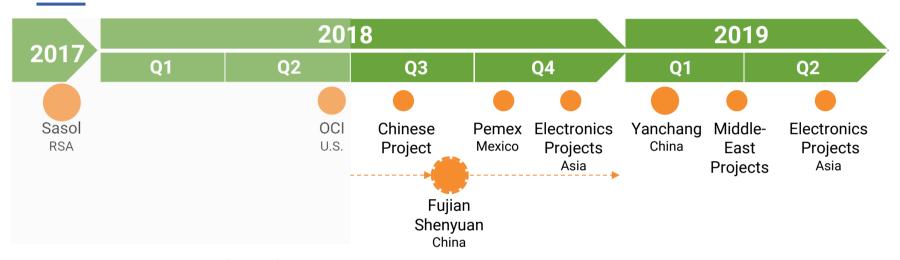
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### **Updated Start-Up Timeline**

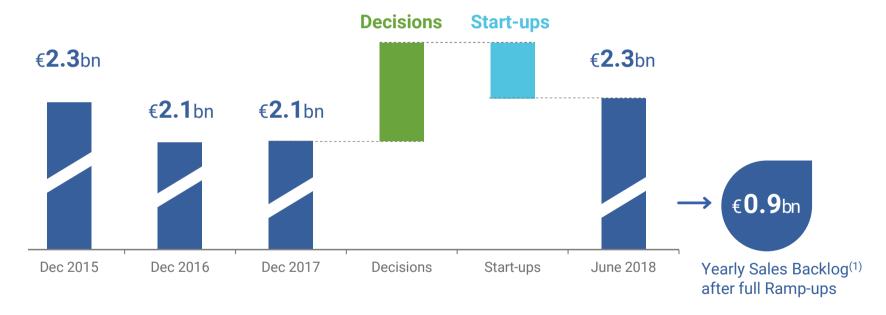


- OCI started end Q2
- 2018 forecasted additional sales between €250 and €300 million depending on Fujian start-up date
- Strong start-up pace to continue in 2019



# **Increased Backlog**

Investment Backlog<sup>(1)</sup> in €bn



(1) See definitions in appendix

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#### 2018 Outlook

H1 2018

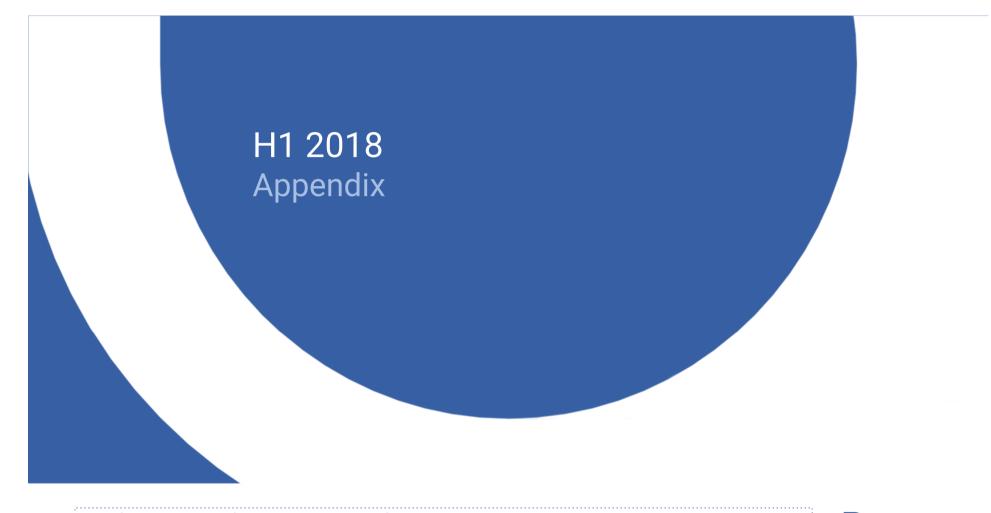
- Strong growth with Group sales up ~+6%
- Performance well on track
- Accelerating business development



"Assuming a comparable environment, Air Liquide is confident in its ability to deliver net profit growth in 2018, calculated at constant exchange rate and excluding 2017 exceptionals<sup>(1)</sup>."

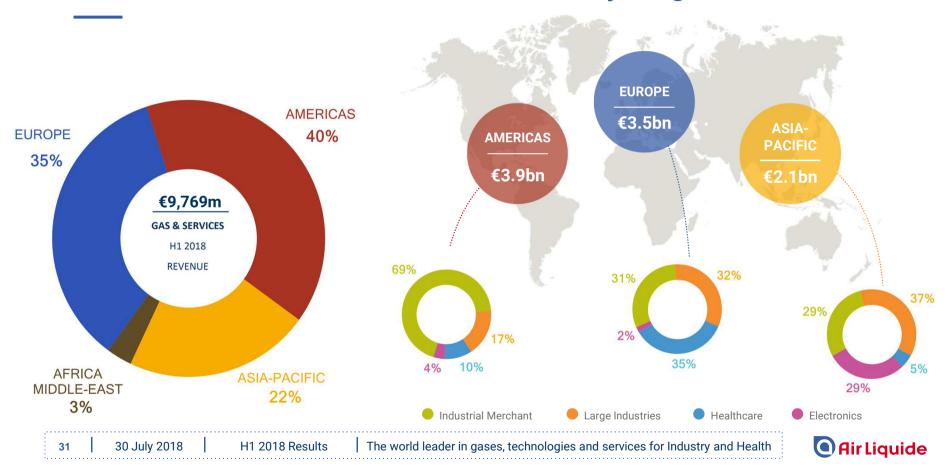
(1) Exceptional non-cash items having a net positive impact on 2017 net profit







# H1 2018 G&S Revenue Breakdown by Region



### **Americas**

#### Q2 Gas & Services Sales: €1,973m

#### INDUSTRIAL MERCHANT

- **Very solid demand** for cylinders and hardgoods in the U.S.
- Positive pricing +1.8%
- All end-markets positive, particularly manufacturing, metal fabrication and construction in the U.S.

#### **LARGE INDUSTRIES**

- Several customer turnarounds in the U.S. for cogen and H<sub>2</sub>
- Strong volumes of O<sub>2</sub> for Chemicals

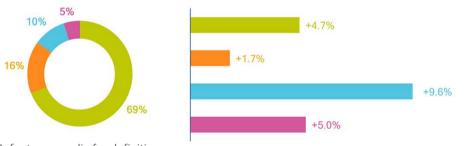
#### **HEALTHCARE**

- Dynamic growth in the U.S. for medical gases and in Canada for HHC
- Limited contribution from bolt-on acquisitions
- Strong momentum in Latin America

#### **ELECTRONICS**

- Better **Q2 at +5**%
- Very high Equipment & Installation sales

Q2 18/17 Comparable growth: +4.6%



In €m	H1 2018	Growth as published	Comparable growth <sup>(1)</sup>
Sales	3,874	-8.9%	+4.6%
OIR	636	-5.2%	
OIR/Sales	16.4%	+60bps	+60bps (2)

- (1) Refer to appendix for definitions
- (2) Excluding impact of energy

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### Europe

#### Q2 Gas & Services Sales: €1,711m

#### **INDUSTRIAL MERCHANT**

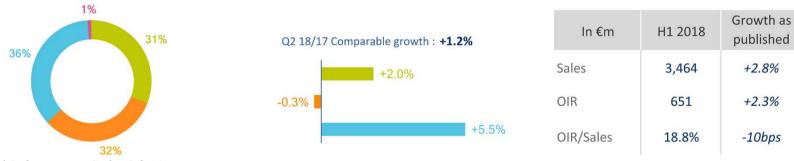
- **Strong growth** in Germany, Italy and Eastern Europe
- Dynamic manufacturing and craftsman markets
- **Price** continued to strengthen at +1.1%
- CO<sub>2</sub> shortage in France and Benelux

#### **LARGE INDUSTRIES**

- High number of customer turnarounds in H<sub>2</sub>
- **Strong growth** in Eastern Europe and in Turkey

#### **HEALTHCARE**

- Accelerating growth
- Limited bolt-on acquisitions
- Increased number of patients, especially in Northern Europe



(1) Refer to appendix for definitions

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(2) Excluding impact of energy

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Comparable

growth (1)

+2.3%

+20bps

#### Asia-Pacific

#### Q2 Gas & Services Sales: €1,091m

#### **INDUSTRIAL MERCHANT**

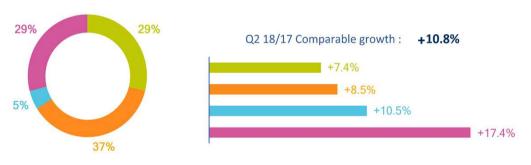
- China again >+15%, strong volume increase in cylinders and in liquid argon; higher prices
- Improving Australia
- Nearly flat Japan

#### **LARGE INDUSTRIES**

- Several ramp-ups in China
- High demand in China (chemical and steel), South Korea, Singapore (refining) and Australia (mining)

#### **ELECTRONICS**

- Strong demand for new molecules particularly in Taiwan and South Korea
- Ramp-ups in carrier gases
- Exceptionally high level of E&I sales



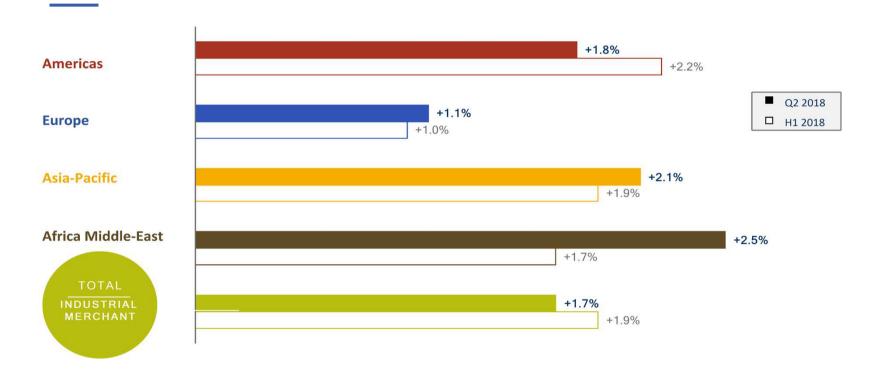
In €m	H1 2018	Growth as published	Comparable growth (1)
Sales	2,107	+3.7%	+8.8%
OIR	407	+1.6%	
OIR/Sales	19.3%	-40bps	-20bps <sup>(2)</sup>

- (1) Refer to appendix for definitions
- (2) Excluding impact of energy

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# **Industrial Merchant Pricing**





# Consolidated P&L

In €m	H1 2017	H1 2018
Revenue	10,293	10,162
Cost of goods	(7,737)	(7,666)
Operating income recurring before depreciation	2,556	2,496
Depreciation and amortization expense	(900)	(879)
Operating Income Recurring	1,656	1,617
Net non-recurring operating income	(2)	(30)
Operating income	1,654	1,587
Net finance costs & other net financial expenses	(259)	(145)
Income taxes	(389)	(359)
Share of profit of associates	1	3
Net profit from discontinued operations	(30)	0
Profit for the period	977	1,086
- Minority Interest	49	46
- Net Profit (Group share)	928	1,040
Basic earnings per share (in €) (1)	2.18	2.44

(1) H1 2017 Basic earnings per share adjusted for the free share attribution of October 2, 2017

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# Operating Margin (OIR/Revenue)

		H1 2017	2017
2017	Group Gas & Services	16.1% 17.6%	16.5% 18.3%
		As published	Excl. Energy
H1 2018	Group	15.9%	16.0%

H1 2018 G&S operating margin excluding energy **improved +30bps** compared to H1 2017



# Consolidated Balance Sheet Simplified - In €m

ASSETS	31/12/17	30/06/18
Goodwill	12,840	13,139
Fixed assets	20,137	20,391
Other non-current assets	1,059	1,090
Total non-current assets	34,036	34,620
Inventories & work in-progress	1,334	1,466
Trade receivables & other current assets	3,963	3,938
Cash and cash equivalents *	1,694	1,246
Total current assets	6,991	6,650
Total assets	41,027	41,270

	31/12/17	30/06/18
Net debt	13,371	14,217
Net debt ratio	80.0%	78.6%

EQUITY AND LIABILITIES	31/12/17	30/06/18
Shareholders' equity	16,318	16,373
Minority interests	400	397
Total equity	16,718	16,770
Provisions & deferred tax liabilities	4,401	4,376
Non-current borrowings	12,522	12,521
Other non-current liabilities	241	255
Total equity and non current liabilities	33,882	33,922
Provisions & deferred tax liabilities	333	332
Trade payables & other current liabilities	4,264	4,089
Current borrowings*	2,548	2,927
Total liabilities	7,145	7,348
Total equity and liabilities	41,027	41,270

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<sup>\*</sup> Including fair value of derivatives

### **Cash Flow Statement**

In €m	H1 2017	H1 2018
Funds provided by operations	1,947	2,000
Changes in Working Capital	(317)	(196)
Other items	(37)	(34)
Net cash from operating activities	1,593	1,770
Purchase of PPE* and intangible assets	(1,108)	(1,096)
Purchase of financial assets and the impact of changes in scope	(86)	(75)
Proceeds from sale of PPE*, intangible and financial assets	36	38
Net cash in investing activities	(1,158)	(1,133)
Distribution	(1,103)	(1,213)
Increase in capital stock	27	36
Purchase of treasury shares	(158)	(63)
Transactions with minority shareholders	(4)	0
mpact of Exchange rate changes and net indebtedness of newly consolidated companies & others	561	(243)
Change in net indebtedness	(242)	(846)

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<sup>\*</sup> PPE: Property, plant and equipment.

# Impact of Currency and Energy on G&S Revenue

Currency	In €m	Q1 17	Q2 17	Q3 17	Q4 17	Q1 18	Q2 18
	€/USD	+64	+49	(89)	(161)	(258)	(147)
	€/CNY	(7)	(8)	(20)	(23)	(26)	(4)
	€/JP¥	+13	(1)	(34)	(30)	(24)	(17)
	Others	+46	+10	(51)	(59)	(105)	(90)
	Total currency impact	+116	+50	(194)	(273)	(413)	(258)
	Average rate	Q1 17	Q2 17	Q3 17	Q4 17	Q1 18	Q2 18
	€/USD	1.07	1.10	1.17	1.18	1.23	1.19
	€/CNY	7.33	7.55	7.83	7.79	7.81	7.60
	€/JP¥	121.0	122.2	130.4	132.9	133.1	130.1
Natural Gas	In €m						
	Natural Gas Impact	+104	+75	+41	+23	(14)	+30
Electricity	In €m						
	Electricity Impact	+25	+17	+9	(0)	(2)	+21



# Revenue Analysis by Quarter and by Business Line

Sales in €m	Q1 17	Q2 17	Q3 17	Q4 17	Q1 18	Q2 18	Q2 18/17 as published	Q2 18/17 comparable
Large Industries	1,392	1,302	1,286	1,356	1,365	1,353	+4.0%	+4.3%
Industrial Merchant	2,384	2,373	2,265	2,239	2,208	2,293	-3.4%	+4.5%
Healthcare	850	840	833	878	850	864	+2.9%	+6.9%
Electronics	420	417	403	404	408	428	+2.7%	+7.6%
Gas & Services	5,046	4,932	4,787	4,877	4,831	4,938	+0.1%	+5.1%
Engineering & Construction	53	93	75	114	85	95	+1.4%	+4.3%
Global Markets & Technologies	77	92	82	121	94	119	+30.5%	+33.2%
Group Total	5,176	5,117	4,944	5,112	5,010	5,152	+0.7%	+5.6%



# Revenue Analysis by Quarter and by Geography

Sales in €m	Q1 17	Q2 17	Q3 17	Q4 17	Q1 18	Q2 18	Q2 18/17 as published	Q2 18/17 comparable
Americas	2,142	2,109	1,968	1,931	1,901	1,973	-6.5%	+4.6%
Europe	1,710	1,661	1,657	1,748	1,753	1,711	+3.0%	+1.2%
Asia-Pacific	1,024	1,008	1,010	1,039	1,016	1,091	+8.3%	+10.8%
Middle-East, Africa	170	154	152	159	161	163	+5.9%	+16.3%
Gas & Services	5,046	4,932	4,787	4,877	4,831	4,938	+0.1%	+5.1%
Engineering & Construction	53	93	75	114	85	95	+1.4%	+4.3%
Global Markets & Technologies	77	92	82	121	94	119	+30.5%	+33.2%
Group Total	5,176	5,117	4,944	5,112	5,010	5,152	+0.7%	+5.6%



# G&S Revenue Growth by Quarter and by Impact

	Growth as published	Natural Gas	Electricity	Currency	Significant perimeter	Comparable growth
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%
Q3 2017	+0.1%	+0.8%	+0.2%	-4.1%	N/A	+4.0%
Q4 2017	-1.1%	+0.5%	+0.0%	-5.6%	-0.4%	+4.4%
Q1 2018	-4.3%	-0.3%	-0.0%	-8.3%	-0.7%	+5.0%
Q2 2018	+0.1%	+0.6%	+0.4%	-5.3%	-0.7%	+5.1%



## 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

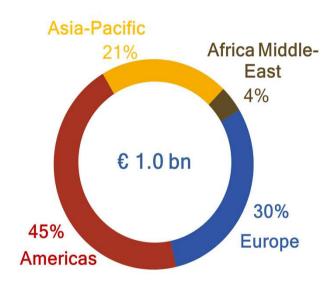
- Cumulated value of industrial and financial investment decisions.
- Industrial, growth and non-growth projects including asset replacements, efficiency, maintenance and safety.
- Financial decisions (acquisitions).



## Gas & Services Industrial Capex by Geography

G&S H1 2018 capex<sup>(1)</sup>





	H1 2017	H1 2018
Europe	8.4%	8.5%
Americas	8.4%	11.4%
Asia-Pacific	13.4%	9.7%
Africa Middle-East	27.8%	12.4%
Total	10.1%	10.1%

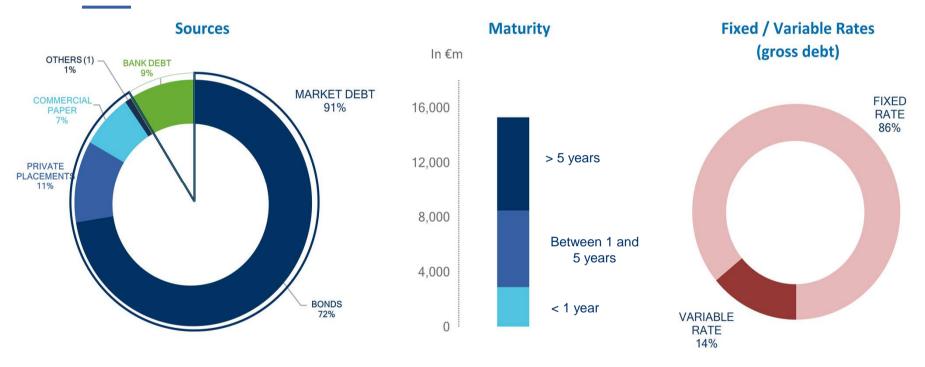
(1) Gross industrial investments.

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# **Financing Structure**

As of June 30, 2018



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

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## Regular and Sustained Performance









(1) Adjusted for the 2-for-1 share split in 2007, for attributions 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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Corporation for the study and application of processes developed by Georges Claude with registered capital of 2,356,439,277.50 euros

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