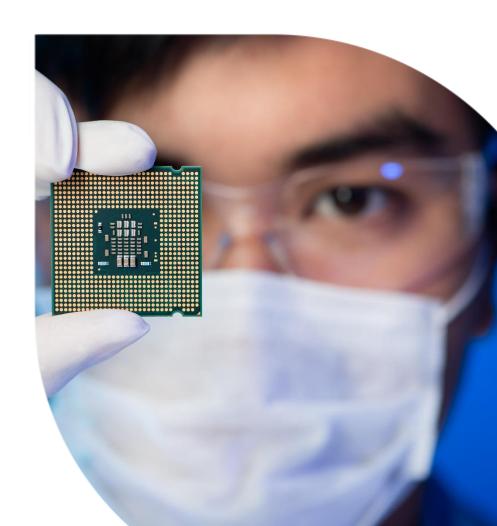


Q1 2019 Activity

Continued sustained growth Very active business development

Fabienne Lecorvaisier, Executive VP Michael Graff, Executive VP

Paris, 26 April 2019



Q1 Well Aligned with NEOS Objectives

- Continued sustained sales growth: +9%, comparable +5%
- ➤ Action plans launched for increased efficiencies
 > €400m/year

A world leader in gases, technologies and services for Industry and Health

Strong cash flow

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Pursued active business development



FX Tailwind, Solid Markets



Air Liquide

High G&S Growth, Recovering E&C and Strong GM&T

Sales in €m	Q1 18	Q1 19	Q1 19/18 As published	Q1 19/18 Comparable
Gas & Services	4,831	5,237	+8.4%	+4.8%
Engineering & Construction	85	93	+7.6%	+5.0%
Global Markets & Technologies	94	111	+18.2%	+15.9%
Group Total	5,010	5,441	+8.6%	+5.0%



26 April 2019 Q1 2019 Activity

Very Active Quarter

Performance Focus

Launch of accelerated efficiency plans

Technologies and Innovation



Grand opening of Tokyo Innovation Center with Electronics WBL customers



Equity stake in Hydrogenics, electrolysis H₂ production

M&A

Acquisition of Tech Air in the U.S.

Long-Term Contracts



€50m ASU contract in Russia



Investment to build the world largest electrolyzer in Canada



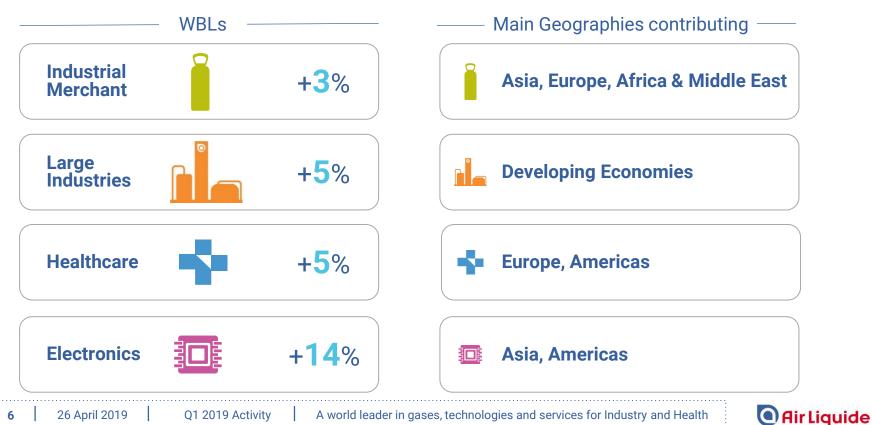
Contributing to Climate objectives

26 April 2019

Q1 2019 Activity

Solid Growth Levers





Solid Base Business

G&S quarterly growth analysis



Unfavorable Working Day

(1) Comparable growth based on 2016 adjusted sales

26 April 2019

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O1 2019 Activity



Q1 - Solid Americas and Europe

G&S comparable sales growth
Americas - Strong activity in EL and HC



• LI: high comparison basis; strong H₂ volumes

- IM: solid cylinder volumes in most markets; One fewer working days
- Dynamic HC in the U.S. and South America
- EL: very strong in all segments

Europe - Continued strength in IM and HC



Sales

01 2019

€2,069m

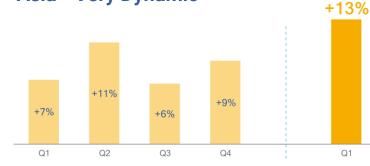
Q1 - Strong Momentum in Asia, Robust Growth in AME

Sales 01 2019

€1,194m

G&S comparable sales growth

Asia - Very Dynamic



• LI: Ramp-Ups in China, high H₂ volumes in Singapore

- IM: China with high bulk and cylinder volumes, sales >+15%; positive Japan
- EL: Start-Ups in Carrier Gases, very strong Advanced Materials, buoyant E&I

AME - Softening Effect of Major LI Start-Up



Q1 - Robust IM, Start-Ups in LI

G&S comparable sales growth

Industrial Merchant - Solid Growth



Sales Q1 2019 €2,365m

- One fewer working days
- Cylinder volume growth
- Pursued strong pricing at +3.3%

Large Industries - Strong Activity

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- High contribution from Start-Ups and Ramp-Ups
- Very strong H₂ volumes and solid air gases
- High comparison basis in Americas



Q1 - Consistent HC, Continued Very High Growth in EL

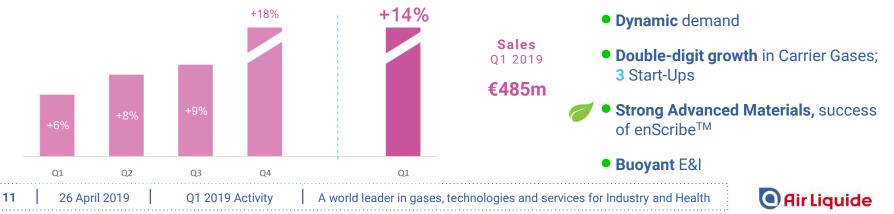
G&S comparable sales growth

Healthcare - Steady Organic Growth



- **High single-digit** growth in HHC, limited impact from bolt-on acquisitions
- Very strong Medical Gases in Americas with Proximity care and success of innovative cylinders

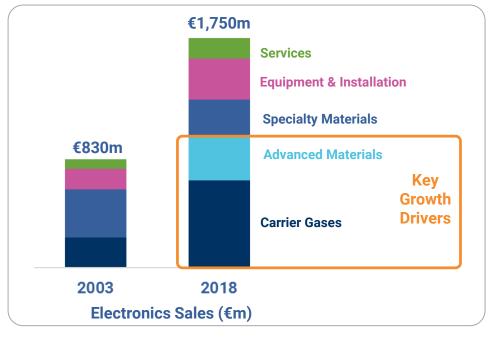
Electronics - Strong Growth in All Segments



EL - Differentiation through High Value Products



Carrier Gases and Advanced Materials key growth drivers



01 2019 Activity

26 April 2019

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- Global leader, #1 in Asia, #1 in China
- Partnership approach enabling customer technology advancement
- Balanced exposure in the Integrated Circuit market: logic, memory and analog
- Record signing, very strong sales backlog



EL - Stronger Margin Mix



OIR versus Sales -Base 100 in 2003



01 2019 Activity

26 April 2019

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- Innovation-driven growth enhancing margin mix
- New Offers in Standard Plant to meet evolving needs of industry
- Continuous drive for efficiencies in
 Opex and Capex

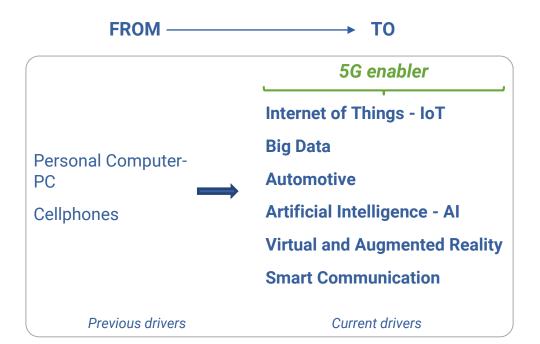
F

- Bringing value through new Advanced Materials
- R&D innovation co-development
- High value molecules enabling customer technology



EL - Capturing Growth in an Expanding Industry





01 2019 Activity

26 April 2019

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- "Chips" will be in everything enabling IoT, AI and Automotive
- Key market drivers are all connected
- 5G connectivity enables enhanced development of market drivers
- Air Liquide growth driven by Semiconductor production volumes and industry Capex



Strengthened Efficiency Program Launched

2019 efficiencies	Cumulatedefficiencies
 Energy optimization: China, Germany, India 	Target in 2020 >€1.5bn
 Routing optimization: U.S., China, France 	New program launched:
01 2019 >€400m • Helium losses reduction in cylinders in China	 Airgas efficiencies Organization agility additional yearly
Q1 2019 >€400m <i>~</i> 30% linked to climate objectives	 mutualization Leverage on digital
Cash Flow	
20.3% ⁽¹⁾	
(1) Operating Cash Flow before change in Working Capital Requirements/Group Revenue 15 26 April 2019 Q1 2019 Activity A world leader in gases, technologies and set	rvices for Industry and Health

Decisions and Opportunities at High Level

Investment Opportunities⁽¹⁾ 12-month portfolio



- Well-balanced by geography
- ~€20m average project size
- 38% linked to climate objectives

Q1 2019 Investment Decisions⁽¹⁾



- High level of signings
 - Equity stake in Hydrogenics
 - 🕖 Largest electrolyzer, Canada
 - Biomethane project, Norway
- Acquisition of a major Industrial Merchant distributor in the U.S.

Q1 2019 Start-up/Ramp-up Sales Growth Contribution



- 7 Start-Ups, out of which 3 for EL
- 1 CO₂ purification plant in the U.S., circular economy



) See definitions in appendix

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Confirmed Start-Ups Forecast

Major Start-Ups



Sales growth contribution - FY 2019

Note: T/O = Take Over

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26 April 2019



2019 Outlook

Q1 2019 _

- Continued sustained growth in G&S
- Action plans deployed for increased efficiencies
- Strong cash flow
- Expanding investment opportunities

2019

"Assuming a comparable environment, Air Liquide is confident in its ability to deliver net profit growth in 2019, calculated at constant exchange rate"



26 April 2019

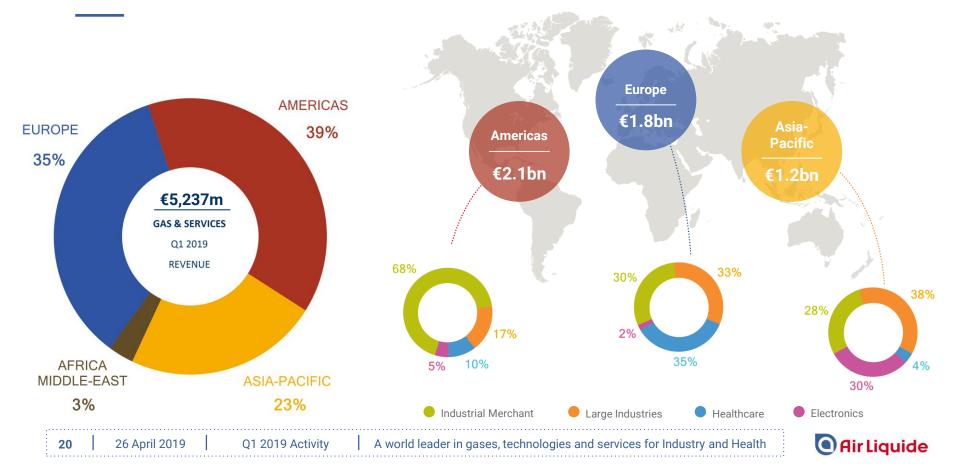
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Q1 2019 Activity





Q1 2019 G&S Revenue Breakdown by Region



Americas

Q1 Gas & Services Sales: €2,069m

Industrial Merchant

- **Most end-markets** contributing to growth, particularly Metal fabrication.
- **Solid** demand for **cylinders** in U.S. and Canada, stable hardgoods in U.S.
- Strong pricing +3.8%

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Large Industries

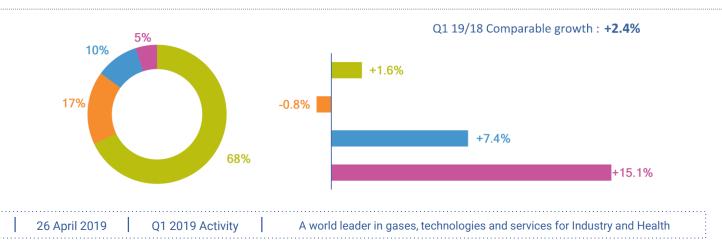
- **High H₂ volume** in North America
- **High price comparison** vs Q1 18 linked to severe weather condition
- Dynamic Latin America

Healthcare

- **Strong Medical gases** in the U.S. with Proximity care & digital cylinders
- Limited bolt-on acquisitions
- **Dynamic** HHC in Brazil, Argentina and Columbia

Electronics

• Strong momentum in Carrier Gases, Advanced Materials and E&I





Europe

Q1 Gas & Services Sales: €1,829m

Industrial Merchant

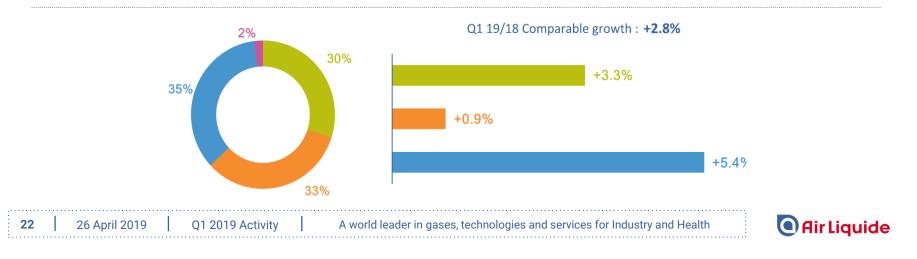
- Broad based geographic growth
- **Proactive** actions to develop cylinder sales
- Stronger pricing: +3.2%
- Dynamic Eastern Europe

Large Industries

- High refining demand (Benelux)
- Solid growth of air gases sales in France and Germany
- Ramp-Ups in Turkey and Kazakhstan
- High comparison effect for Cogen activity

Healthcare

- Very steady organic growth
- Strong HHC, especially with increased number of patients with diabetes treated in Scandinavia, France and Spain
- Medical gases growth despite pricing pressure



Asia-Pacific

Q1 Gas & Services Sales: €1,194m

01 2019 Activity

Industrial Merchant

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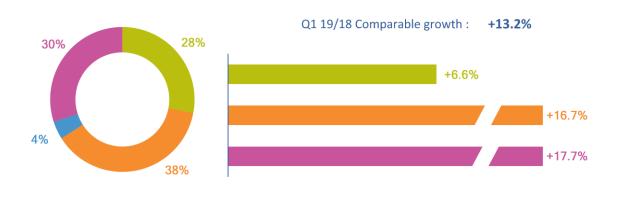
- Very dynamic China >+15%, strong bulk (O₂ and Ar) and cylinders
- Strong Helium across the zone
- Improving Japan, lower Australia

Large Industries

- 3 Start-Ups in China in Q4 2018
- Strong H₂ in Singapore

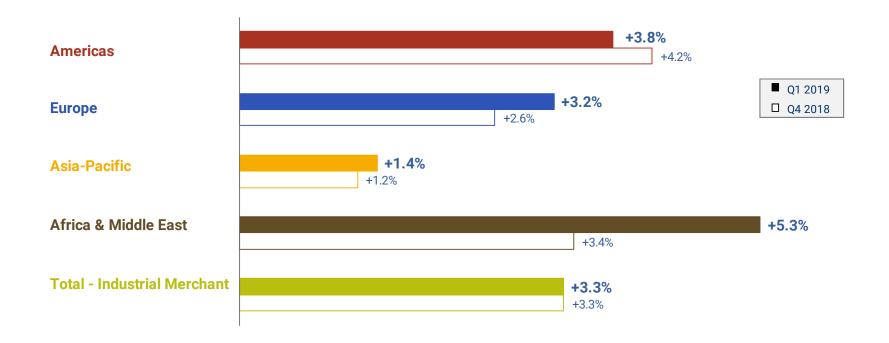
Electronics

- >+10% growth in Carrier Gases China and Singapore
- Dynamic Advanced Materials South Korea, Taiwan and Japan
- Buoyant E&I sales >+50%





Industrial Merchant Pricing



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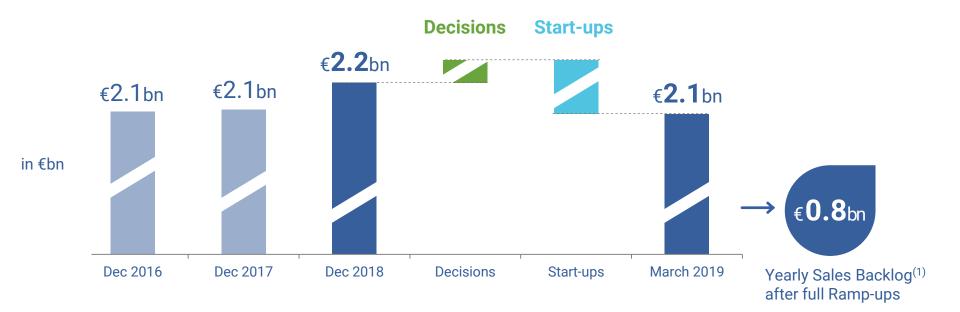
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Steady Backlog > €2bn



See definitions in appendix 26 26 April 2019 Q1 2019 Activity A world leader in gases, technologies and services for Industry and Health

Impact of Currency and Energy on G&S Revenue

In €m Q1 18 Q2 18 Q3 18 Q4 18 Q1 19 Currency €/USD (258)(147)+15+55+138€/CNY (26)(4) (5) (7) +10 €/JP¥ (24)(17)+1 +8 +16 Others (105)(90)(72)(57) (23) **Total currency impact** (413)(258)(61) (1)+141Average rate Q1 18 02 18 Q3 18 Q4 18 Q1 19 €/USD 1.23 1.19 1.16 1.14 1.14 €/CNY 7.81 7.60 7.92 7.89 7.66 €/JP¥ 133.1 130.1 129.6 128.8 125.1 In €m Natural Gas +87 **Natural Gas Impact** (14)+30 +82 +5 Electricity ln €m (2) **Electricity Impact** +21+36 +38 +27

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Revenue Analysis by Quarter and by Business Line

Sales in €m	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q1 19/18 as published	Q1 19/18 comparable
Large Industries	1,365	1,353	1,454	1,513	1,490	+9.1%	+5.1%
Industrial Merchant	2,208	2,293	2,312	2,368	2,365	+7.1%	+2.8%
Healthcare	850	864	862	910	897	+5.6%	+5.4%
Electronics	408	428	438	481	485	+19.0%	+13.7%
Gas & Services	4,831	4,938	5,066	5,272	5,237	+8.4%	+4.8%
Engineering & Construction	85	95	105	145	93	+7.6%	+5.0%
Global Markets & Technologies	94	119	100	161	111	+18.2%	+15.9%
Group Total	5,010	5,152	5,271	5,578	5,441	+8.6%	+5.0%



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Q1 2019 Activity A wor

Revenue Analysis by Quarter and by Geography

Sales in €m	Q1 18	Q2 18	Q3 18	Q4 18	Q1 19	Q1 19/18 as published	Q1 19/18 comparable
Americas	1,901	1,973	2,017	2,091	2,069	+8.9%	+2.4%
Europe	1,753	1,711	1,779	1,868	1,829	+4.3%	+2.8%
Asia-Pacific	1,016	1,091	1,099	1,153	1,194	+17.5%	+13.2%
Middle-East, Africa	161	163	171	160	145	-10.1%	+3.8%
Gas & Services	4,831	4,938	5,066	5,272	5,237	+8.4%	+4.8%
Engineering & Construction	85	95	105	145	93	+7.6%	+5.0%
Global Markets & Technologies	94	119	100	161	111	+18.2%	+15.9%
Group Total	5,010	5,152	5,271	5,578	5,441	+8.6%	+5.0%

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G&S Revenue Growth by Quarter and by Impact

	Growth as published	Natural Gas	Electricity	Currency	Significant perimeter	Comparable growth
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%
Q3 2018	+5.8%	+1.7%	+0.7%	-1.3%	-0.5%	+5.2%
Q4 2018	+8.1%	+1.8%	+0.7%	+0.0%	+0.0%	+5.6%
Q1 2019	+8.4%	+0.1%	+0.6%	+2.9%	+0.0%	+4.8%



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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

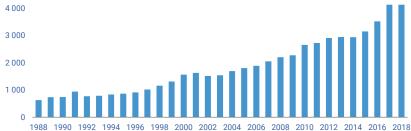
- Cumulated value of industrial and financial investment decisions.
- Industrial, growth and non-growth projects including asset replacements, efficiency, maintenance and safety.
- Financial decisions (acquisitions).



Regular and Sustained Performance

CAGR over 30 years⁽¹⁾





(1) Calculated according to prevailing accounting rules over 30 years.

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EPS⁽²⁾ (in €) +6.9%



(2) 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.



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L'Air Liquide S.A. Corporation for the study and application of processes developed by Georges Claude with registered capital of 2,361,913,658.50 euros

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