





Roadshow Brussels 24 January 2012

## Continuously Improving.

Lead**Ing.** 



Dr Dominik Heger Head of Investor Relations

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## Agenda



- 1. Operational and Financial Performance
- 2. Strategic Focus:
  - Growth Markets
  - Energy / Environment
  - Healthcare
- 3. Outlook

#### Performance - 9M 2011



#### Highlights

Group sales increased by 8.5% to € 10,209 m With an increase of 10.2% to € 2,363 m operating profit grew stronger than sales Continuous strong increase of reported EPS by 21.5% to € 5.02 and of adjusted EPS by 16.4% to € 5.68 Strong operating cash flow increases by 10.8% to € 1,699 m

#### Growth in all regions

Strongest momentum in growth markets
Solid development in mature regions
Operating margin of the Gases Division at 27.3% (+20 bp)

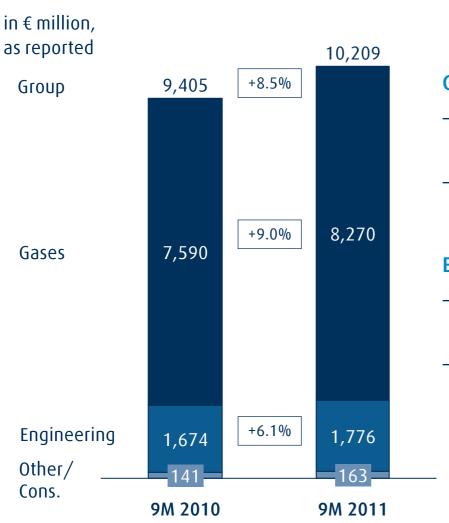
#### 2011 Outlook reinforced

Growth in sales and operating profit vs. record year 2010

HPO: € 650-800 m of gross cost savings in 2009-2012

# **Group, sales by Divisions**Continued growth in all areas





#### **Gases Division**

- Growth momentum continues: comparable\* sales up by 8.1%
- Growth in all product areas lead by product area Tonnage

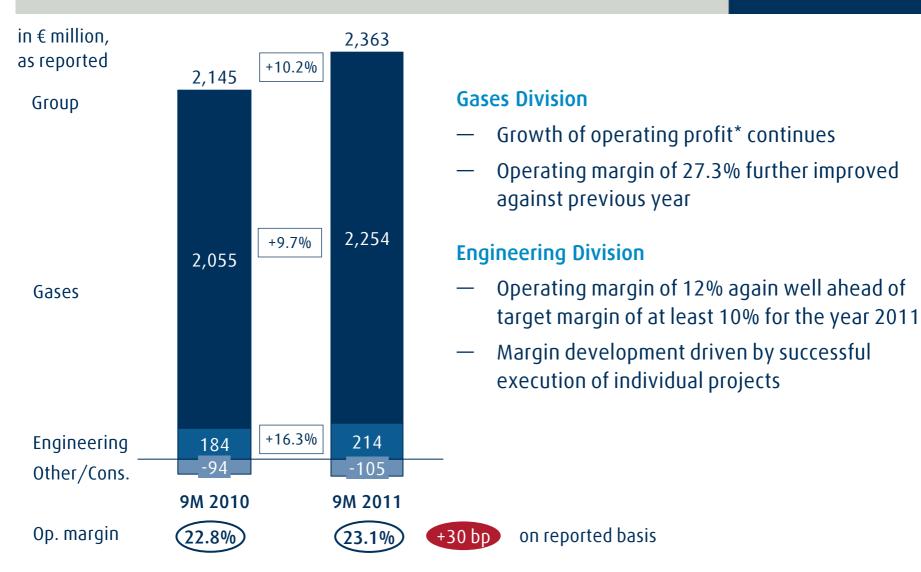
#### **Engineering Division**

- Order intake well balanced between growth markets and mature markets
- Order backlog remains on high level

<sup>\*</sup>excluding currency, natural gas price and consolidation effect

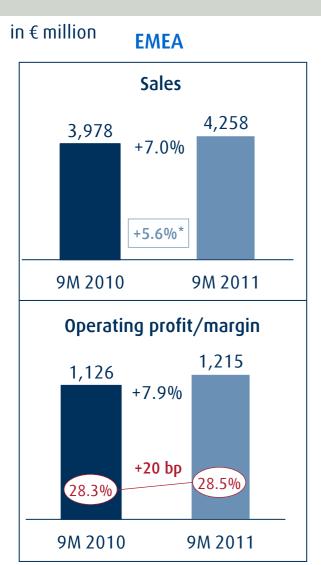
# **Group, operating profit by Divisions**Group margin improved





## Gases Division, sales and operating profit by operating segment Growth momentum continues in all regions

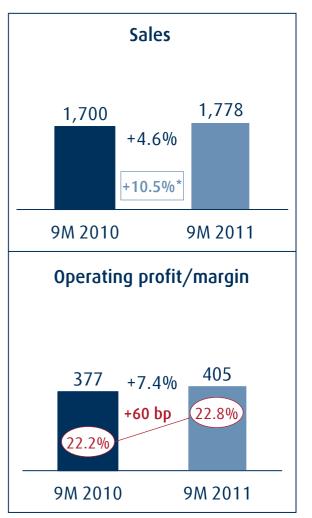








#### **AMERICAS**

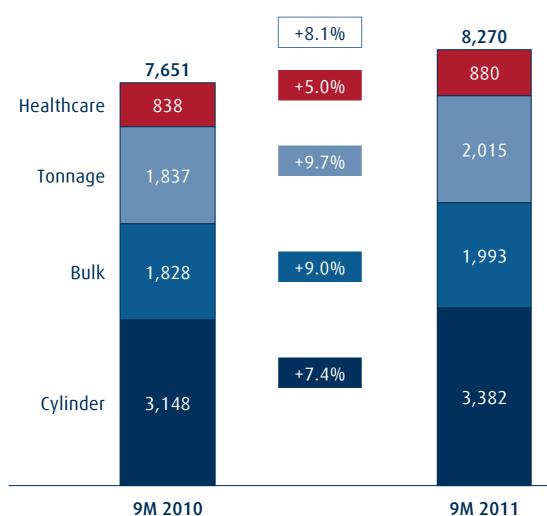


<sup>\*</sup>excluding currency, natural gas price and consolidation effect

## Gases Division, sales by product areas Growth accelerated in Bulk



in € million, comparable\*, consolidated

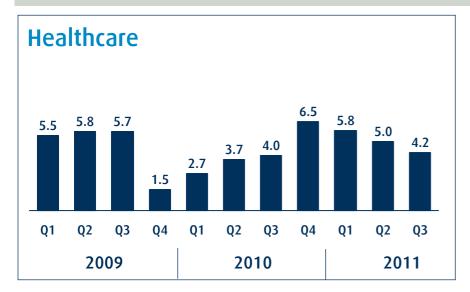


\*excluding currency, natural gas price and consolidation effect

### Gases Division, product areas

## Comparable year-on-year growth in percent











# **Engineering Division, key figures**Order intake up by 9 %



- Order intake mainly driven by air separation units and well balanced between growth and mature markets and
- Order backlog stays strong at € 3,761 bn (year-end 2010: € 3,965 bn)
- Margin expectation for 2011 is at least 10%

| in € million      | 9M 10 | 9M 11 | Δ ΥοΥ   |
|-------------------|-------|-------|---------|
| Order intake      | 1,538 | 1,676 | +9.0%   |
| Sales             | 1,674 | 1,776 | +6.1%   |
| Operating profit* | 184   | 214   | +16.3%  |
| Margin            | 11.0% | 12.0% | +100 bp |

<sup>\*</sup>EBITDA incl. share of net income from associates and joint ventures

### Group

2008

2009

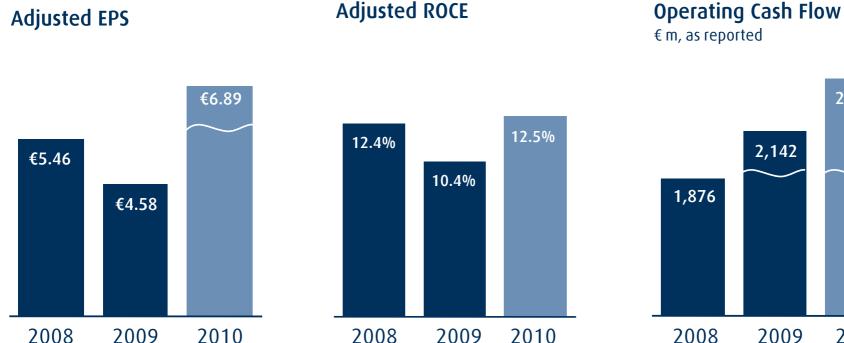
2010

### Financial key indicators at record levels



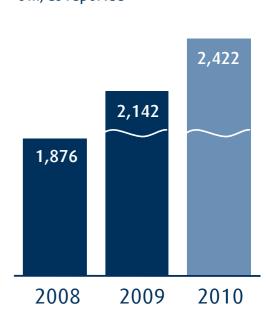
### Further improvement in all our three key financial indicators

- Profitable growth for our shareholders: adjusted EPS and adjusted ROCE
- Strong cash flow generation further improved: OCF up by 13.1%



2009

2010



### Group, solid financial position

### Net debt/EBITDA ratio of 1.7x

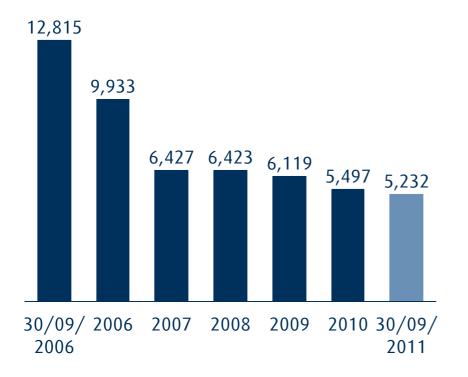


### **Credit Ratings**

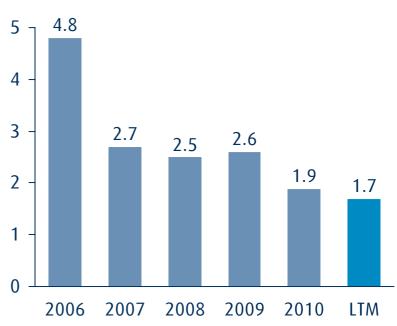
— Standard&Poor's: A-/A-2 with stable outlook (12.08.2011)

— Moody's: A3/P-2 with stable outlook (12.10.2011)

#### Net debt in € bn



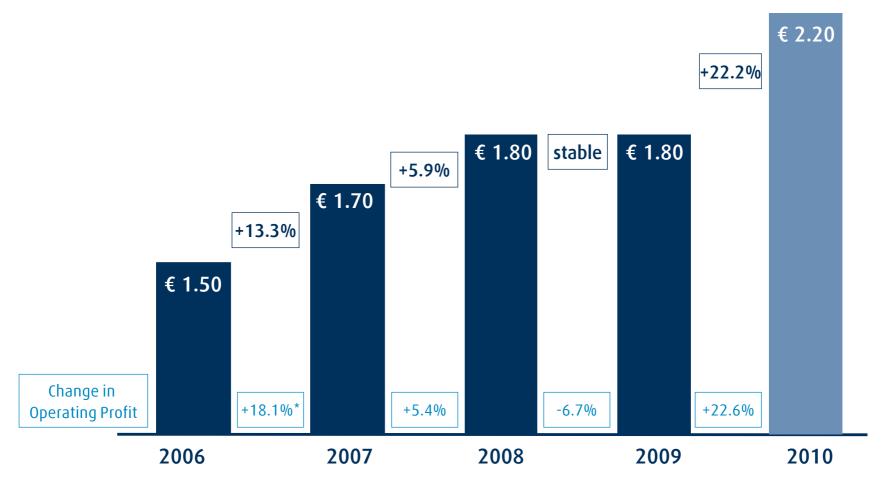
### Net debt/EBITDA



# **Group, dividends**Dividend increased by 22.2% to € 2.20



### Consistent dividend policy

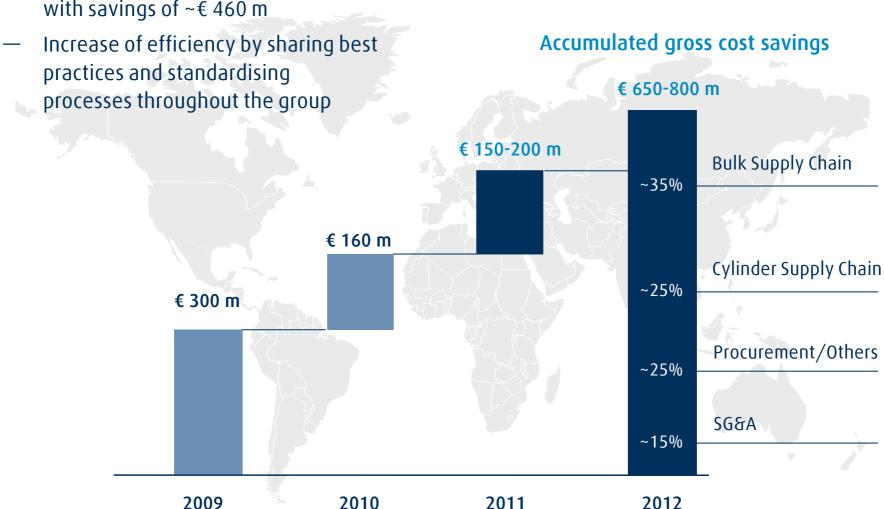


<sup>\*</sup> Comparable change: prior year figures including twelve months of BOC

# **HPO (High Performance Organisation)**Covering the full value chain in all regions



 Successful start and continuation with savings of ~€ 460 m



## Agenda



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### Mega-trends

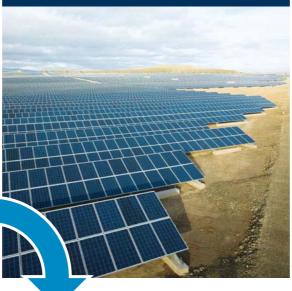
## Leveraging growth with our Gas & Engineering set-up



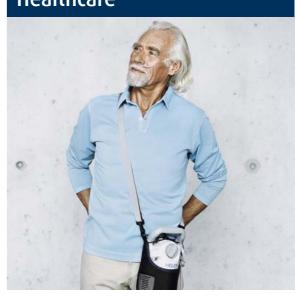
## **Growth Markets**



### **Energy/Environment**



### Healthcare



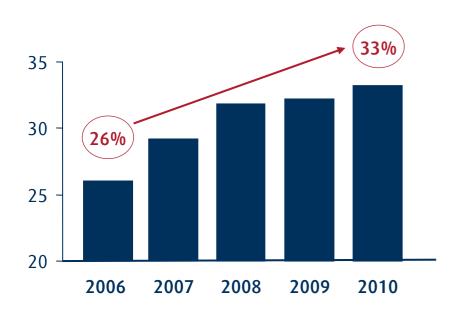
Leveraging Gases & Engineering business synergies

# Mega-trend Growth Markets Growth trend leveraged by strong investment decisions

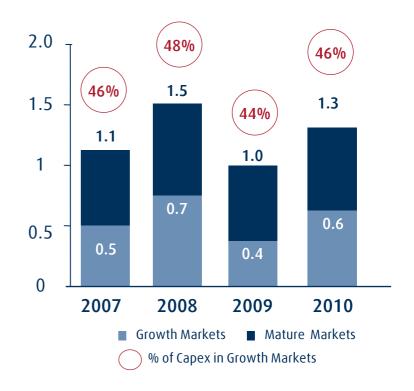


### Growth market sales, excl. JVs

(% of total Gases sales)



### Gases Capex 2007 – 2010 in € bn

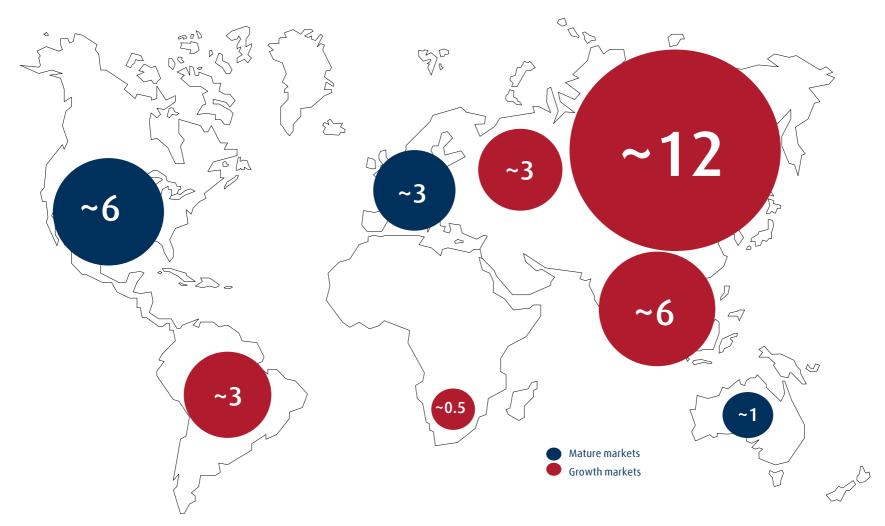


Further increasing footprint in Growth Markets

Nearly half of Capex allocated to Growth Markets

# Mega-trend Growth Markets Additional industrial gases market 2010 vs. 2020 in € bn





# Mega-trend Growth Markets Leading Gases set-up in local growth markets



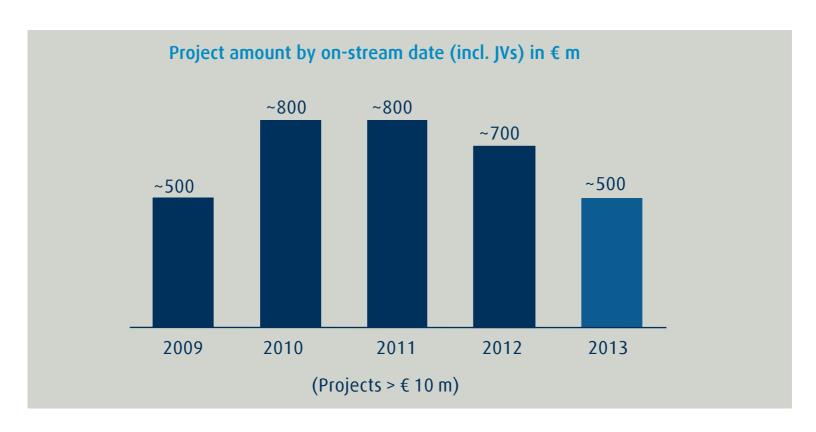
#### Market leader in 4 out of 5 Growth Markets



# **Gases Division, project pipeline**Solid foundation for future growth



- Project amount for 2013 already at € 500 m
- Around € 3.3 bn investments between 2009-2013 (thereof € 0.6 bn in JVs @ share)
- Close to 70% of total project-capex allocated to Growth Markets
- Project opportunities 12 months forward as published in March 2011 around € 4 bn (primarily in Growth Markets)



## Linde Gases Division in Greater China Important project wins in 2011







#### Jilin (Q4/2011)

- On-site supply contract with Evonik Industries and Jilshen
- Hydrogen plant (SMR): ~€ 42 m capex, on stream date 2013/2014

#### Wu'an (Q4/2011)

- On-site supply contract with Hebei Puyang Iron and Steel Ltd.
- Decaptivation of 7 ASUs of with energy efficiency upgrade and construction of a new ASU: ~ € 120 m capex, expected on stream date of the new plant is in 2014

#### Yantai (Q3/2011)

- On-site supply contract with Wanhua Polyurethanes Co., Ltd.
- Two large scale ASUs: ~€ 130 m capex, on stream date 2013/2014

#### Chongging (Q2/2011)

- On-site supply contracts with CCPHC and BASF
- Large scale HYCO plant: ~€ 200 m capex, expected on stream date 2014

#### Chongqing:

- On-site supply contract with Sinopec
- ASU start-up in Q2/2011

# Mega-trend Energy/Environment Potential Energy/Environment market is huge

Pilot projects and small volumes



- Competitive advantage due to LeadIng Engineering know-how and in particular also development of equipment
- Better use of fossil resources, e.g. enhanced oil & gas recovery
- Renewable energy,
   e.g. hydrogen fueling
- Clean Energy,e.g. Clean Coal
- Other, e.g.Photovoltaic,Coal-to-Gas

(Please find assumptions for estimates on page 54)

Energy/Environment annual market revenue estimates in € bn\* Existing growth markets Future growth markets € 80 -140 bn € 14 -19 bn € 5 -7 bn **CLEAN COAL** CO<sub>2</sub> HANDLING H<sub>2</sub> FUELING EOR (N2 / NRU / CO2) LNG (Merchant/Floating) Other (e.g. Photovoltaic, Coal-to-Gas) 2015 2020 2030 Annual market revenue in the respective year

<sup>\*</sup>Assuming 100% Build Own Operate and excluding sale of equipment and plants

# Mega-trend Energy/Environment Clean Energy development trends





## High market potential for merchant LNG:

- No natural gas pipeline grid on the Swedish Fast coast
- Swedish government focused on renewable energy with LNG as bridge technology
- LNG replaces LPG, light and heavy fuel oil
- LNG attractive as fuel for transportation to reduce sulphur and NOx emissions
- Supply provided by customer of Engineering Division in Norway



## World's largest biofuel plant producing LNG from landfill gas:

- Plant has produced > 2 m gallons LNG since start-up in 2009
- Fuel for around 300 refuse trucks
- Carbon emission reduction by 97% compared to diesel and 95% compared to pipeline natural gas
- 2010 California Governor's Environmental and Economic Leadership Award



## Reduction of CO<sub>2</sub> Emission by 170k tons per annum:

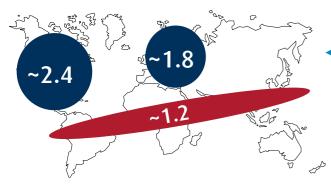
- Replacement of CO<sub>2</sub> generated by gas furnaces with CO<sub>2</sub> from a Shell refinery
- 85 km transportation pipeline with
   150 km of distribution lines
- Prevents combustion of 95 million cubic metres of natural gas

Future growth markets

Existing growth markets

# **Mega-trend Healthcare**Growth through innovation and regional expansion





← Additional medical gases market 2010 vs. 2020 in € bn

### Linde Healthcare development approach

Mature markets

Growth markets

Source: Linde database, figures incl. gas therapies and care concepts

Core: Hospital Care



Other geographies



**Care Concepts** 

Homecare

**Gas Therapies** 



Geographic expansion

### Mega-trend Healthcare

Acquisition of Continental-European homecare business from Air Products\*



#### **Main Rationale**

Strategic acquisition supporting sustainable growth in the mega-trend Healthcare Step up to a strong number 2 position in the European respiratory homecare market

Scaling-up our product and service offerings

Enhanced competencies support continuous innovations and development of new services

Increased exposure to stable healthcare business

Contribution to the Group's profitable growth strategy

#### **Key Parameters**

Enterprise Value of € 590 m

Sales in the last twelve months of 09/2011 of around € 210 m in Spain, Portugal, Germany, France and Belgium Approximately 850 employees deliver quality care to around additional 260,000 patients

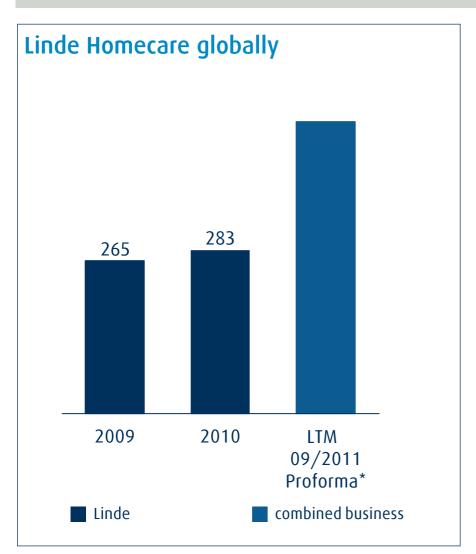
#### **Financing**

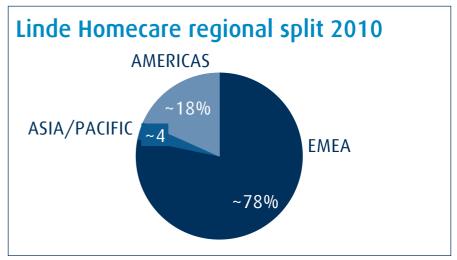
Transaction financed out of strategic cash reserves

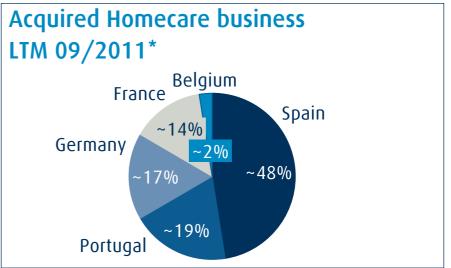
<sup>\*</sup> The completion of the transaction is subject to approval by the antitrust authorities, relevant works counsel consultation and fulfilment of other usual closing conditions.

# Mega-trend Healthcare Sales as reported in € million









<sup>\*</sup> The completion of the transaction is subject to approval by the antitrust authorities, relevant works counsel consultation and fulfilment of other usual closing conditions.

# Linde Homecare product and service portfolio today and synergies between segments



### Home Oxygen Therapy



Chronic respiratory diseases, patients need oxygen (COPD, Asthma)

**Products:** LOX, GOX and Concentrators

### Services:

Home delivery, assessment and rehab centers

### **Sleep Therapy**



Obstructive Sleep Apnea, patients need positive air pressure during sleep

**Products**: Positive Airway
Pressure Devices, Masks

**Services:** Screening, Diagnostics, Home delivery, Therapy, Adherence monitoring

#### **Ventilation Services**



Advanced respiratory diseases and congenital disorders, patients need mechanical ventilation support

**Products:** Mechanical Ventilators, Equipment

**Services**: Home delivery, Care Centers (REMEO), Telemonitoring

Synergies: sales & marketing, logistics, integrated patient management, care centre, adherence program, technology development

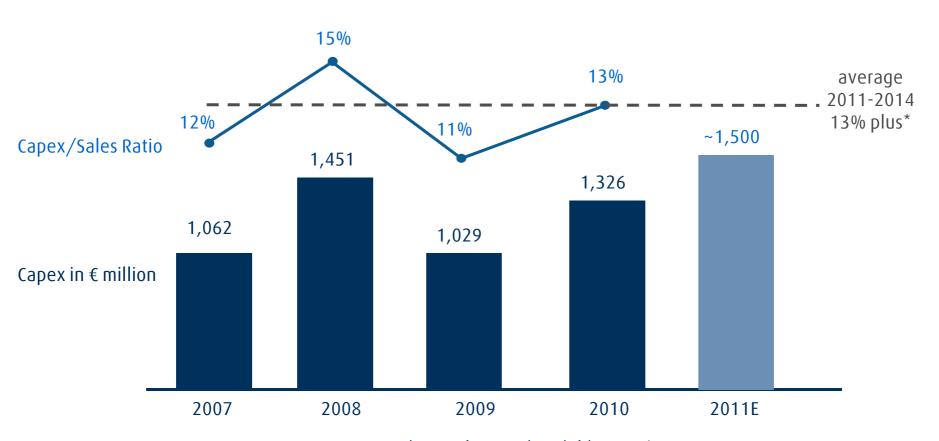
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# **Gases, Capex**Development Capex Sales Ratio 2007 - 2010





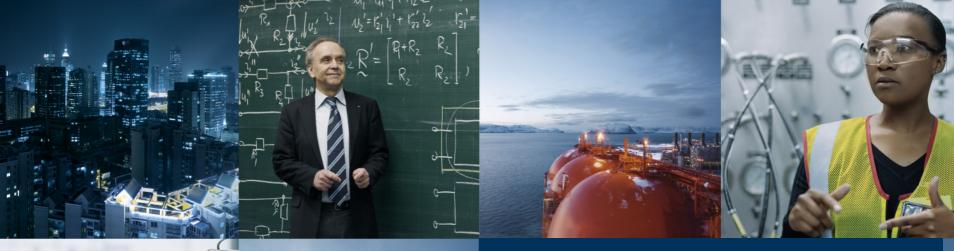
Data 2007-2010 @ actual average fx rates at the end of the respective year;

<sup>\*</sup> plus: additional potential for mega-projects

## Outlook



| 2011        | Group | <ul> <li>— Growth in sales and operating profit vs. 2010</li> <li>— Confirmation of HPO-program: € 650-800 m of gross cost savings in 2009-2012</li> </ul> |  |
|-------------|-------|--|--|
|             | Gases | <ul> <li>Sales increase vs. 2010</li> <li>Operating profit to grow at a faster pace than sales</li> </ul>  |  |
| Engineering |       | <ul> <li>Sales at the same level as in 2010</li> <li>Operating margin of at least 10%</li> </ul>   |  |
|             |       |  |  |
| 2014        | Group | <ul> <li>Operating profit of at least € 4 bn</li> <li>Adjusted ROCE of 14% or above</li> </ul>   |  |
|             | Gases | <ul> <li>Average capex/sales ratio 13% plus</li> <li>Revenue increase above market growth</li> <li>Further increase in productivity</li> </ul>             |  |





Thank you.

Lead**Ing.** 



Georg Denoke Member of the Executive Board and CFO

## Agenda



- 1. Operational and Financial Performance
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  - High Performance Organisation
  - Growth Potential Mega-trends
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**Appendix** 

# **Group Financial Highlights** Q3 2011



| in € million                               | Q3 10 | Q3 11 | ∆in % |
|--|-------|-------|-------|
| Sales                                      | 3,301 | 3,435 | 4.1   |
| Operating profit                           | 749   | 804   | 7.3   |
| Margin (in %)                              | 22.7% | 23.4% | 70 BP |
| EBIT before PPA depreciation               | 502   | 541   | 7.8   |
| PPA depreciation                           | -66   | -60   | -9.1  |
| EBIT                                       | 436   | 481   | 10.3  |
| Financial Result                           | -79   | -89   | 12.7  |
| Taxes                                      | -92   | -87   | -5.4  |
| Net income                                 | 265   | 305   | 15.1  |
| Net income – Part of shareholders Linde AG | 253   | 290   | 14.6  |
| EPS in €                                   | 1.50  | 1.70  | 13.3  |
| Adjusted EPS in €                          | 1.73  | 1.89  | 9.2   |
|  |       |       |       |

# **Group Financial Highlights** 9M 2011



| in € million                               | 9M 10 | 9M 11  | ∆ in % |
|--|-------|--------|--------|
| Sales                                      | 9,405 | 10,209 | 8.5    |
| Operating profit                           | 2,145 | 2,363  | 10.2   |
| Margin (in %)                              | 22.8% | 23.1%  | 30 BP  |
| EBIT before PPA depreciation               | 1,424 | 1,580  | 11.0   |
| PPA depreciation                           | -191  | -181   | -5.2   |
| EBIT                                       | 1,233 | 1,399  | 13.5   |
| Financial Result                           | -230  | -215   | -6.5   |
| Taxes                                      | -255  | -281   | 10.2   |
| Net income                                 | 748   | 903    | 20.7   |
| Net income – Part of shareholders Linde AG | 698   | 856    | 22.6   |
| EPS in €                                   | 4.13  | 5.02   | 21.5   |
| Adjusted EPS in €                          | 4.88  | 5.68   | 16.4   |

## Group

## Financial Highlights – FY 2010



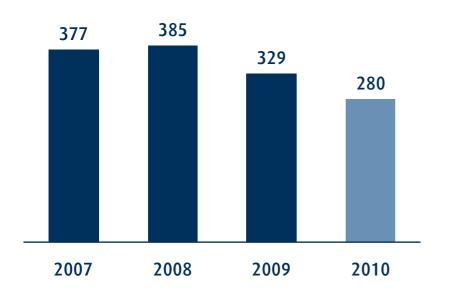
| in € million                               | 2009   | 2010   | Δin % |
|--|--------|--------|-------|
| Sales                                      | 11,211 | 12,868 | 14.8  |
| Operating Profit                           | 2,385  | 2,925  | 22.6  |
| Margin (in %)                              | 21.3   | 22.7   |       |
| EBIT before PPA depreciation               | 1,460  | 1,933  | 32.4  |
| PPA depreciation                           | -293   | -254   |       |
| EBIT                                       | 1,167  | 1,679  | 43.9  |
| Financial Results                          | -329   | -280   | 14.9  |
| Taxes                                      | -185   | -335   | 81.1  |
| Net income                                 | 653    | 1,064  | 62.9  |
| Net income – Part of shareholders Linde AG | 591    | 1,005  | 70.1  |
| EPS in €                                   | 3.51   | 5.94   | 69.2  |
| Adjusted EPS in €                          | 4.58   | 6.89   | 50.4  |

## Group

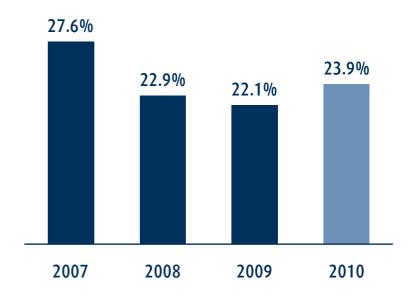
### Financial Result and Tax Rate



Financial Result (in € million)



**Tax Rate** 



## Group, Cash Flow Statement



| in € million                         | Q1 11 | Q2 11 | Q3 11 | 9M 11 | 9M 10 |
|--------------------------------------|-------|-------|-------|-------|-------|
| Operating profit                     | 761   | 798   | 804   | 2,363 | 2,145 |
| Change in Working Capital            | -180  | 6     | 60    | -114  | -126  |
| Other changes                        | -141  | -267  | -142  | -550  | -486  |
| Operating Cash Flow                  | 440   | 537   | 722   | 1,699 | 1,533 |
| Investments in tangibles/intangibles | -237  | -310  | -346  | -893  | -764  |
| Acquisitions/Financial investments   | -13   | -1    | -41   | -55   | -35   |
| Other                                | 43    | 33    | 40    | 116   | 136   |
| Investment Cash Flow                 | -207  | -278  | -347* | -832* | -663  |
| Free Cash Flow before Financing      | 233   | 259   | 375   | 867   | 870   |
| Interests and swaps                  | -45   | -114  | -123  | -282  | -240  |
| Dividends and other changes          | -2    | -385  | -7    | -394  | -308  |
| Net debt increase (+)/decrease (-)   | -186  | 240   | -245  | -191  | -322  |

<sup>\*</sup> excluding strategic liquidity reserve of € 600m

# **Group**Cash Flow – FY 2010



| in € million                           | Q1/10 | Q2/10 | Q3/10 | Q4/10 | 2010   | 2009   |
|--|-------|-------|-------|-------|--------|--------|
| Operating Profit                       | 641   | 755   | 749   | 780   | 2,925  | 2,385  |
| Change in Working Capital              | -98   | -3    | -25   | 210   | 84     | 160    |
| Other changes                          | -146  | -247  | -93   | -101  | -587   | -403   |
| Operating Cash flow                    | 397   | 505   | 631   | 889   | 2,422  | 2,142  |
| Investments in tangibles / intangibles | -223  | -280  | -261  | -428  | -1,192 | -1,104 |
| Acquisitions / Financial investments   | -6    | -9    | -20   | -33   | -68    | -86    |
| Other                                  | 38    | 44    | 54    | 59    | 195    | 200    |
| Investment Cash flow                   | -191  | -245  | -227  | -402  | -1,065 | -990   |
| Free Cashflow before financing         | 206   | 260   | 404   | 487   | 1,357  | 1,152  |
| Interests and swaps                    | -22   | -120  | -98   | -58   | -298   | -301   |
| Dividends and other changes            | -1    | -303  | -4    | 28    | -280   | -329   |
| Net debt increase (+) / decrease (-)   | -183  | 163   | -302  | -457  | -779   | -522   |

## FY 2010: Stable long-term financing



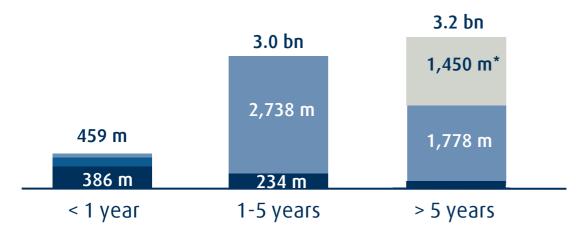
#### Well-spread and long-dated maturity profile

- Regular issues have continuously lengthened our refinancing schedule
- More than 90% of total financial debt is due beyond 2011
- Approx. 50% of total financial debt has a longer maturity than 5 years

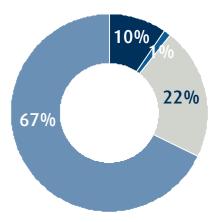
#### Balanced mix of various financing instruments

- Long-term bond financing covers approx. 90% of financial debt
- Strategic funding in EUR, GBP, USD and AUD

#### Financial debt, by maturity (in €)



# Financial debt, by instrument



- Senior Bonds
- Subordinated Bonds (\*callable in 2013/2016)
- Commercial Paper
- Bank Loans

## FY 2010: Liquidity reserve further strengthened



#### € 2.5 bn committed revolving credit facility maturing in 2015

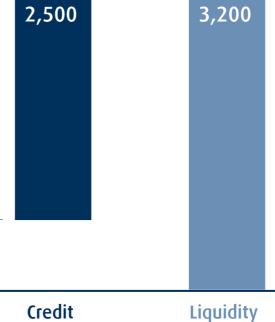
- Arranged in May 2010 with 25 national and international banks
- Replaced € 2 bn syn loan maturing in 2011 and € 1.6 bn forward start facility 2011/2013
- No financial covenants
- Fully undrawn

#### More than € 1 bn cash











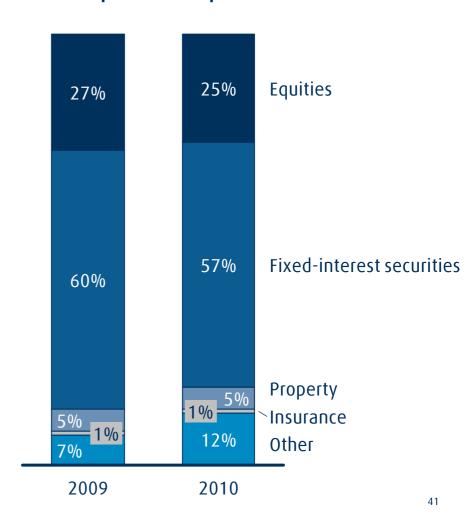
## Pensions – Key figures



### **Net obligation**

| in € million           | DBO   | Plan<br>asset | Net<br>obligation |
|------------------------|-------|---------------|-------------------|
| 01.01.2010             | 4,744 | 3,896         | 848               |
| Service costs          | 93    |               | 93                |
| Net financing          | 265   | 246           | 19                |
| Actuarial gains/losses | -92   | 141           | -233              |
| Contributions/payments | -217  | -9            | -208              |
| FX                     | 209   | 200           | 9                 |
| Other                  | -31   | -7            | -24               |
| 31.12.2010             | 4,971 | 4,467         | 504               |

### Pension plan assets portfolio structure



# **Gases Division**Operating Segments – Historical data 2010



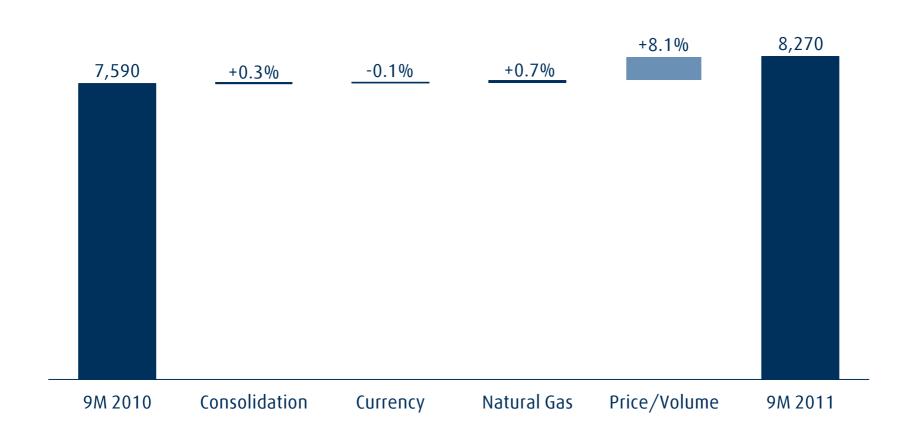
| EMEA (€ m)                    | Q1 2010 | Q2 2010 | Q3 2010 | Q4 2010 | FY 2010 |
|-------------------------------|---------|---------|---------|---------|---------|
| Sales                         | 1,264   | 1,349   | 1,365   | 1,352   | 5,330   |
| Operating profit <sup>*</sup> | 351     | 386     | 389     | 387     | 1,513   |
| Operating margin              | 27.8%   | 28.6%   | 28.5%   | 28.6%   | 28.4%   |
| Asia/Pacific (€ m)            | Q1 2010 | Q2 2010 | Q3 2010 | Q4 2010 | FY 2010 |
| Sales                         | 577     | 677     | 711     | 727     | 2,692   |
| Operating profit*             | 162     | 190     | 200     | 202     | 754     |
| Operating margin              | 28.1%   | 28.1%   | 28.1%   | 27.8%   | 28.0%   |
| Americas (€ m)                | Q1 2010 | Q2 2010 | Q3 2010 | Q4 2010 | FY 2010 |
| Sales                         | 514     | 581     | 605     | 579     | 2,279   |
| Operating profit*             | 112     | 136     | 129     | 122     | 499     |
| Operating margin              | 21.8%   | 23.4%   | 21.3%   | 21.1%   | 21.9%   |

<sup>\*</sup> EBITDA before non-recurring items, including share of net income from associates and joint ventures

# **Division Gases, sales bridge**9M sales increase of 8.1% on comparable basis



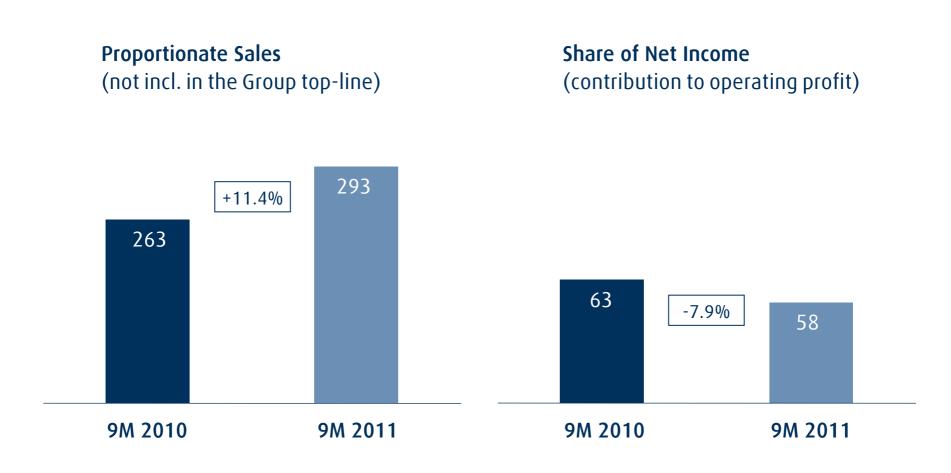
in € million



## **Gases Division, Joint Ventures**



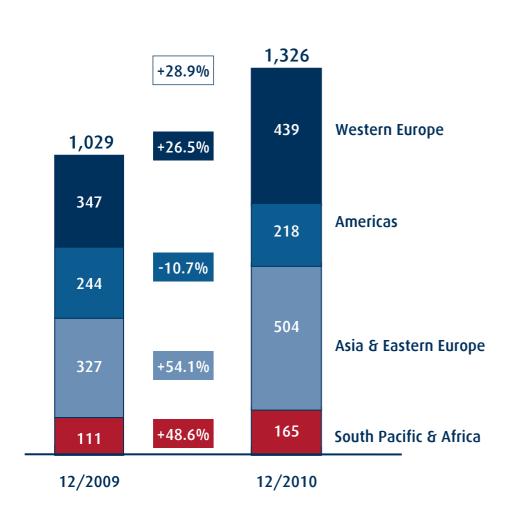
#### in € million



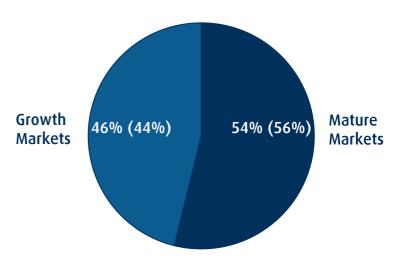
# **Gases Division**Split of Capex by operating segment



#### in € million

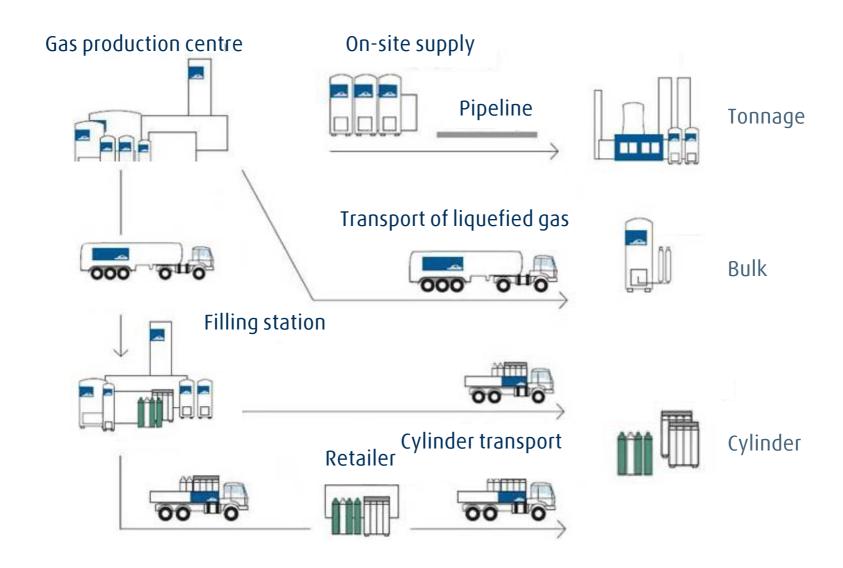


### Split Capex by markets 2010 (2009)



# **Gases Division**From source to customer





#### **Gases Division**

### Various distribution mix served from one product source





- 15-year take-or-pay contracts (incl. base facility fees)
- Add. growth in JVs & Embedded Finance Lease projects



- Multi-year contracts
- Application-driven





- Hospital care & Homecare
- Bulk & cylinder gases
- Structural growth



- High customer loyalty
- Includes specialty gases
- Cylinder rentals

# **Gases Division, local business model**70% of revenues come from a leading market position

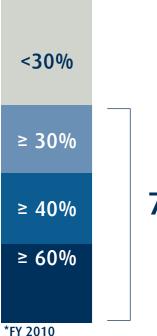


In bulk & cylinder: >70% of revenues from >30% market share positions

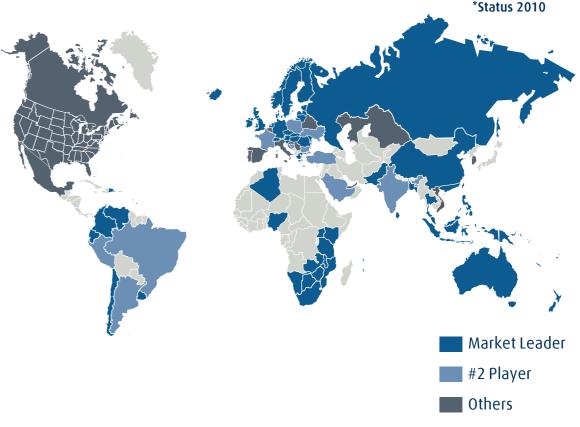
Sales split by market shares

Market leader in 47 of the 75 major countries, #2 Player in another 15





**70%** 

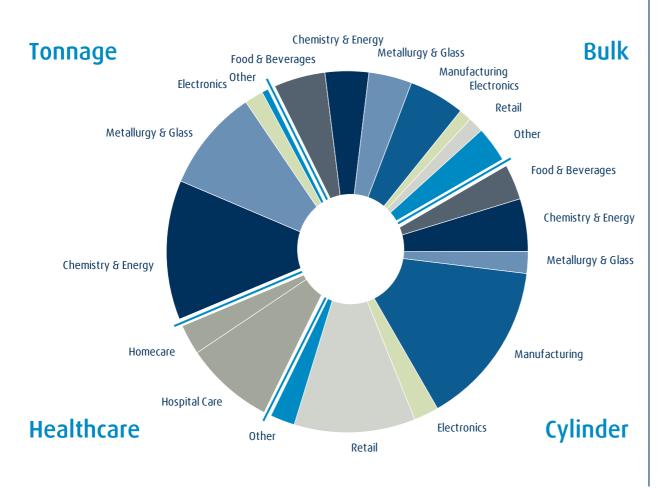


### **Gases Division**

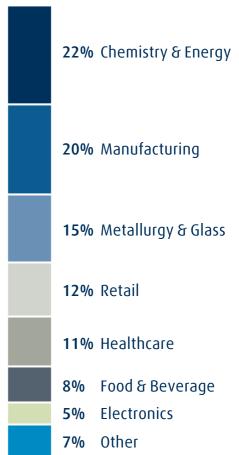
### Stability driven by a broad customer base



#### 2010: Split of product areas by major end-customer groups



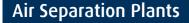
# 2010: Split of sales by major end-customer groups



# Engineering Division

### Global set-up with leading market position in all segments







Hydrogen/ Synthesis Gas Plants



Top2

**Olefin Plants** 



Top2

**Natural Gas Plants** 



Top3

Providing plants for the gases business and 3rd party customers

Providing chemistry and energy related solutions to 3rd party customers



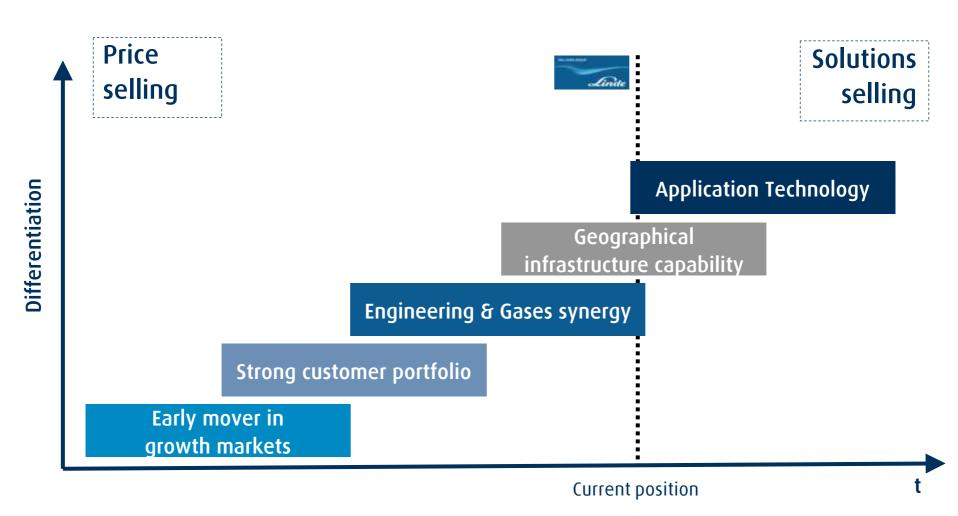


- Engineering base
- Sales office

Supporting the energy/environmental mega-trend and leveraging customer relations for gas projects

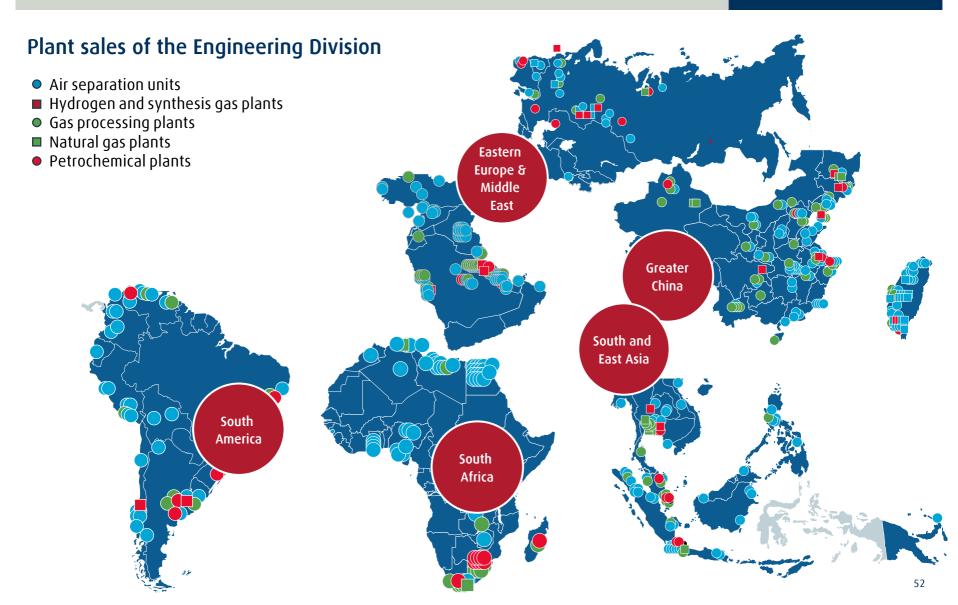
# Mega-trend Growth Markets Business approach in Growth Markets





# Mega-trend Growth Markets Strong customer relationships in Engineering





## Mega-trend Growth Markets Leading player in Greater China



Oil/Petrochemicals



扬子石化-巴斯夫有限责任公司 **BASF-YPC Company Limited** 





**Chemicals** 











Metallurgy













**Electronics** 













**EPSON** 













Others















## **Gases Division in China** Integrated offer in selected industrial poles



#### **Integrated Clusters**

Example - Ningbo

**Gases products** supply to bulk and cylinder markets

Pipeline linkage (key concept)

**Fully Integrated Cluster** 

Multiple customers supplied by pipeline (GAN/GOX/GHY)

Integrated plant operation



# Clean Energy market estimation 2020 & 2030 top down



#### General assumptions:

- Market numbers are directional only and w/o inflation or fx
- Oil price development at 80-100 USD/bll
- Outsourced gases market only (excl. captive market or equipment sales),

| Market size in € bn                              |   |        |       |        |
|--|---|--------|-------|--------|
|  | Assumptions for 2030  | 2015   | 2020  | 2030   |
| LNG<br>merchant/floating                         | <ul> <li>Based on penetration rate of LNG replacing existing fuels;</li> <li>Merchant LNG projects based on geographical set up and existing infrastructure</li> <li>Floating LNG projects</li> </ul>   | 3-4    | 6-10  | 11-23  |
| Enhanced Oil Recovery<br>Nitrogen Rejection Unit | <ul> <li>Single to double digit number of large N2 EOR/NRU projects</li> <li>Double digit number of large CO2 EOR projects including industrial CO2 capture and pipeline (overlapping w/CCS)</li> </ul> | 1-1.5* | 4-5*  | 18-35* |
| Carbon Capture<br>& Clean Coal                   | - Triple-digit number of 1 GW Carbon Capture (1.5 Gt/a CO2 at EUR25-40/t)   |        |       | 30-50  |
| CO <sub>2</sub> networks                         | <ul> <li>Installation of significant pipeline network and corresponding compression<br/>(1.5 Gt/a handling fee CO2 at EUR 10-15/t)</li> </ul>   | small  | 1     | 15-25  |
| Hydrogen<br>fuelling                             | <ul> <li>Installation of a significant fuel station infrastructure</li> <li>Corresponding annual H2 consumption of some bn tons p.a.</li> </ul>   |        | 1     | 10-15  |
| Photovoltaic                                     | - Includes all gases used for manufacturing of photovoltaic cells only  |        | 2     | 3      |
|  | Range   | 5-7    | 14-19 | 80-140 |

<sup>\*</sup> Assuming 100% Build Own Operate and excluding sale of equipment and plants

## Mega-trend Energy/Environment Current and future growth markets for Gases & Engineering



Better use of fossil resources: Renewable energy: Clean energy: Existing growth markets Developing growth markets Future growth markets Signed Gases contracts for Statoil plant, Hammerfest, Photo-Vattenfall Pilot Project, Liquified Natural **OxyFuel** voltaic 6 GWp of nominal capacity Gas (LNG) Floating LNG Schwarze Pumpe, Germany Waste Management JV **RWE/BASF Pilot Project,** Post-comb. Pearl GTL project, Gas-To-Liquid Bio to Liquids plant started up in 2009 Niederaussem, Germany CO<sub>2</sub> capture **Qatar Shell GTL LTd** (GTL) Recycling CO<sub>2</sub> (OCAP, NId) Choren/Sun Fuel Pilot Biomass-RECTISOL® CO2 wash, used CO<sub>2</sub> handling CO<sub>2</sub> scrubbing CO2SINK, Ketzin, Germany Conversion Project, Germany at Hammerfest LNG plant Statoil LNG plant, Norway **Turbines for geothermal** ASUs and Rectisol for coal Geothermal Coal-to-Gas project in France gasifications in China **H2** Mobility Initiative launched Automotive Tonnage contract with Coal Hydrogen with key industrial partners liquefaction Bayer/SCCC<sup>1</sup> in China **Enhanced Oil&** Pemex Cantarell project, Mexico Gas Recovery Adnoc Joint Venture, Abu Dhabi Tonnage contracts with Shell, Refinery EMAP, Chevron, CITGO,... Hydrogen

Higher efficiency in energy use: Sustained growth in traditional end markets REBOX® oxy-fuel (steel), WASTOX® (aluminium), Oxygen burner (glass), Water Treatment, ...

<sup>1</sup> Shanghai Cooking & Chemical Corporation

Maturity of business: — Existing business — Pilot on-going

# Mega-trend Energy/Environment Progress 2011



| EOR (N2 / NRU / CO2)       | <ul> <li>Large-scale enhanced gas recovery in Abu Dhabi</li> <li>Nitrogen is pumped into the reservoirs to increase pressure and maintain the gas flow</li> <li>Higher exploitation rate of 20-30%</li> </ul> |
|----------------------------|---|
| LNG<br>(Merchant/Floating) | <ul> <li>LNG-terminal in Sweden: Merchant LNG</li> <li>Pre-Feed-study with PTT for development of a floating LNG facility as basis for investment decision</li> </ul>   |
| CLEAN COAL                 | <ul> <li>Leader in advanced CO2 capture for power plants</li> <li>USD15 m award payment by US Department of Energy for pilot plant testing of CO2 scrubbing solutions</li> </ul>                              |
| CO2 HANDLING               | <ul> <li>Agreement with Sapphire Energy to develop CO2 management system and supply for algae fuel production</li> <li>Reduction of greenhouse gas emissions</li> </ul>                                       |
| H <sub>2</sub> FUELING     | <ul> <li>Hydrogen technology is a step towards emission-free mobility</li> <li>In cooperation with Daimler to build 20 additional hydrogen</li> </ul>   |

filling stations in Germany

# Mega-Trend Energy/Environment LNG-terminal Nynäshamn/Sweden







No natural gas pipeline grid in the Baltic region

#### May 2011

- First LNG import terminal in the Baltics completed: ~ € 100 m
- Located 60 km south of Stockholm
- Storage of up to 20,000 cubic metres LNG at minus 162 degree Celsius (~12 m cubic metres natural gas)
- Main source LNG plant of Skangass in Norway
- Direct supply of customers or to customer network feed points via bulk transports
- LNG replaces LPG, light and heavy fuel oil for the transportation and marine market to reduce sulphur and NOx emissions

#### **One-Stop-Provider in LNG-business**

LNG terminal built by Linde Engineering

LNG terminal owned and operated by Linde Gas

LNG-plant designed and built by Linde Engineering

Distribution technology by Linde Engineering Sales and distribution by Linde Gas

# Mega-trend Healthcare High potential for medical gases and related services



#### Linde Global Business Unit Healthcare:

- Second largest global medical gas business
- Active in more than 50 countries with approx 3,000 employees

### Market Environment

- Increasing & ageing population
- Healthcare budget pressures & increasing regulation
- Healthcare quality issues & shortage of care providers
- Increasing wealth in Growth Markets
- Power patients

### **Healthcare Challenges & Opportunities**

- Increased use of medical gases & related devices, services
- Increase in chronic diseases
- Therapies offering quality of life & cost reductions
- Privatization of care/outsourcing of services

Linde's product offer

**Hospital Care** 

**Care Concepts** 

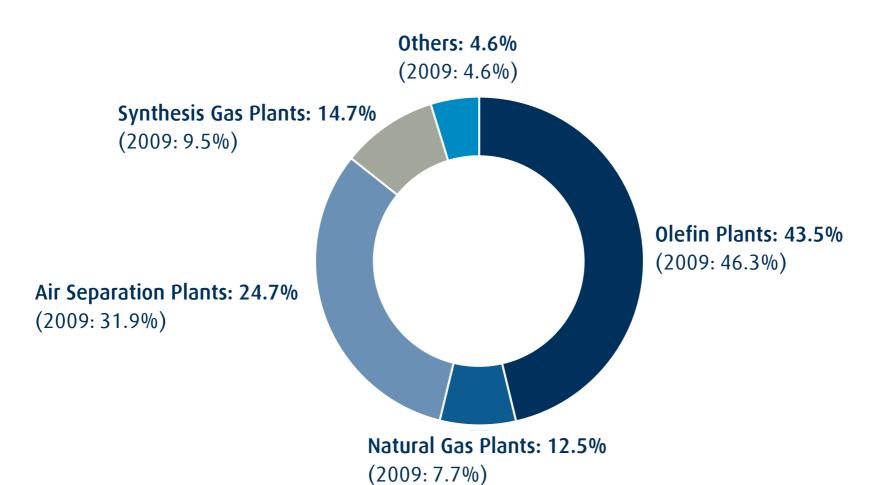
Homecare

Gas Therapies

# **Engineering Division**Order backlog diversified and of high quality

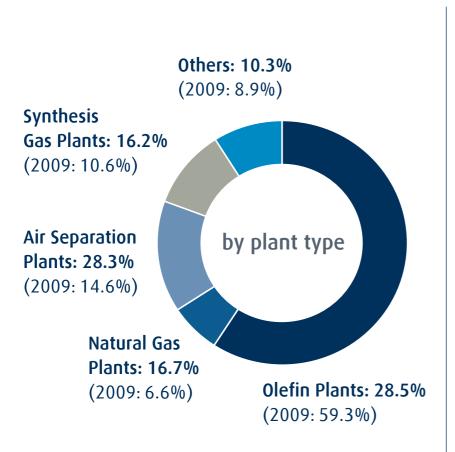


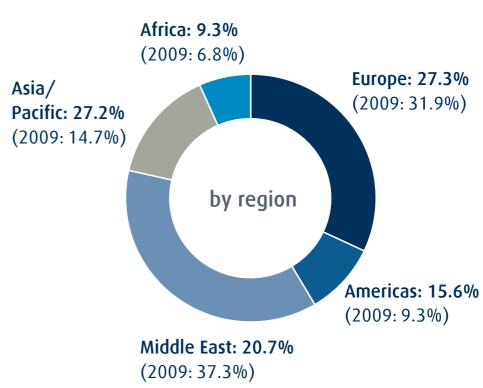
#### Order backlog by plant type (31/12/2010)



# **Engineering Division**FY 2010 order intake by plant type and region







# **Group, Accounting considerations**Impact of PPA



### Purchase Price Allocation (PPA)

Impact in 9M 2011: € 181 m (9M 2010: € 191 m)

Expected impact FY 2011: ~ € 250 m (upper end of guidance due to enforced one-brand strategy)

#### **Background:**

- The difference between the purchase cost of BOC and related acquisitions in Asia and their net asset value has been allocated to assets on the Linde balance sheet (for BOC, see Linde 2007 annual report, p. 99)
- The revaluation of these assets leads to additional depreciation and amortisation charges according to the useful life of the assets
- Goodwill is not amortised but subject to a yearly impairment test
- Depreciation & Amortisation from PPA is excluded from the calculation of Adjusted EPS

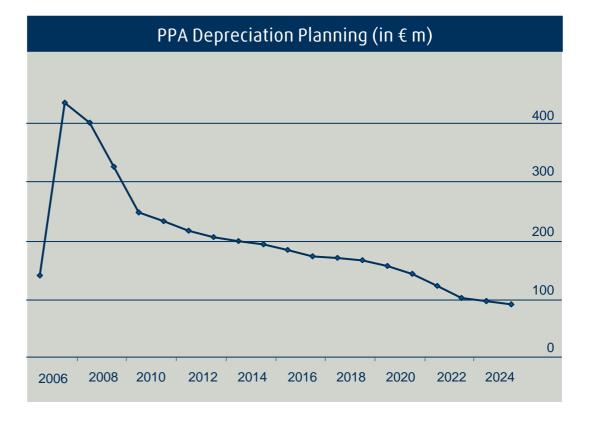
### PPA – Expected Depreciation & Amortisation



- Development of depreciation and amortisation (in € million)
- Impact in 2010: € 254 million

| Expected range |
|----------------|
|----------------|

| 2011 | > 200 – 250 |
|------|-------------|
| 2012 | > 175 – 225 |
| •••  |             |
| 2022 | < 125       |



# **Group**Definition of financial key figures



| Operating<br>Profit | Return                         | EBITDA (incl. IFRIC 4 adjustment) excl. finance costs for pensions excl. special items incl. share of net income from associates and joint ventures                          |
|---------------------|--------------------------------|--|
| adjusted<br>ROCE    | Return                         | Operating profit - depreciation / amortisation excl. depreciation/amortization from purchase price allocation  |
|                     | Average<br>Capital<br>Employed | equity (incl. minorities) + financial debt + liabilities from financial services + net pension obligations - cash and cash equivalents - receivables from financial services |
| adjusted<br>EPS     | Return                         | earnings after tax and minority interests + depreciation/amortization from purchase price allocation +/- special items   |
|                     | Shares                         | average outstanding shares   |

### **Investor Relations**



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#### **Financial Calendar**

— FY 2011 Results: 09 March 2012

— Q1 2012 Results: 04 May 2012

Annual General Meeting: 04 May 2012