



Roadshow Brussels

# Continuously Improving.

Lead**Ing.** 

THE LINDE GROUP

#### 22 June 2011

This presentation contains forward-looking statements about Linde AG ("Linde") and their respective subsidiaries and businesses. These include, without limitation, those concerning the strategy of an integrated group, future growth potential of markets and products, profitability in specific areas, the future product portfolio, anti-trust risks, development of and competition in economies and markets of the group.

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# Agenda



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

#### Appendix



#### Continuously Improving.

Ongoing growth momentum drives group sales up 14.9% to € 3,325 m Group operating profit grows over-proportionately by 18.7% to € 761 m Strong EPS increase with reported EPS up 42.7% to € 1.67 and adjusted EPS of € 1.88 (+33.3%) Operating Cash Flow increases by 10.8% to € 440 m

#### Double-digit earnings growth driven by widespread recovery and HPO initiatives

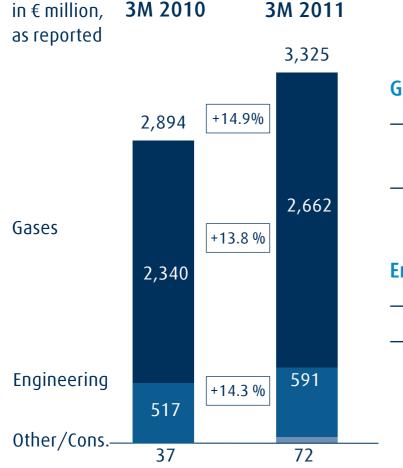
Growth markets continue their strong momentum Mature regions on solid growth levels supported by further recovery in the cylinder business Increase of the group operating margin by 80 basis points to 22.9%

#### 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** Unchanged growth momentum drives group sales up 14.9%





#### **Gases Division**

- Growth momentum intact: comparable\* sales increase of 8.3%
- Growth in all product areas: tonnage leading, cylinder accelerating

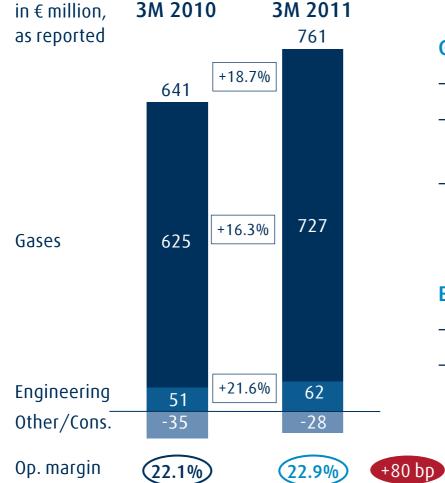
#### **Engineering Division**

- Sales above last year's level
- Execution of order backlog remains fully on track

\*excluding currency, natural gas price and consolidation effect

# **Group, operating profit by Divisions** Further group margin improvement by 80bp to 22.9%





#### **Gases Division**

- Operating profit\* on double-digit growth track
- Operating margin further increased by 60 bp yoy to 27.3%
- Continuous focus on HPO: initiatives across all processes providing us with the right basis for sustainable profitable growth

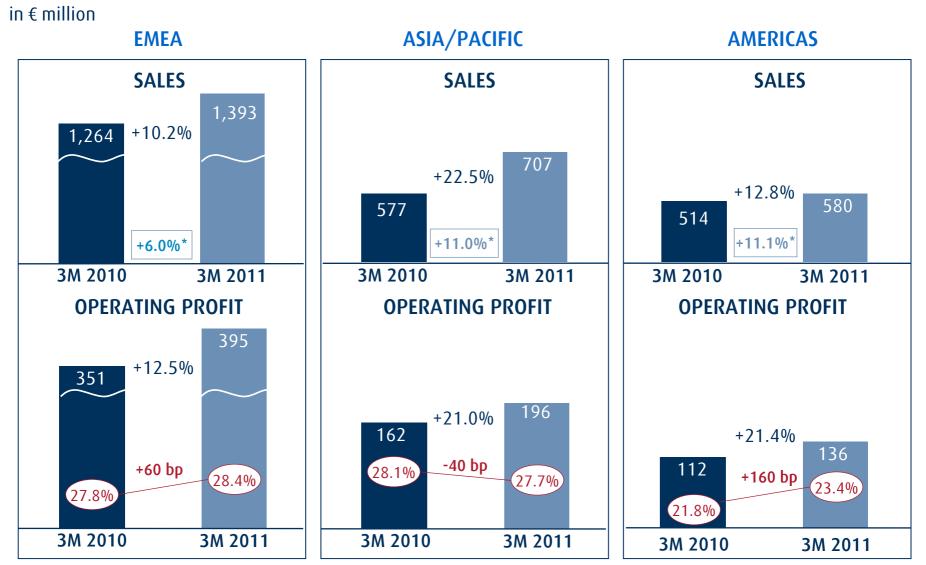
#### **Engineering Division**

- Operating margin of 10.5%
- Strong margin performance driven by successful project execution

on reported basis

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

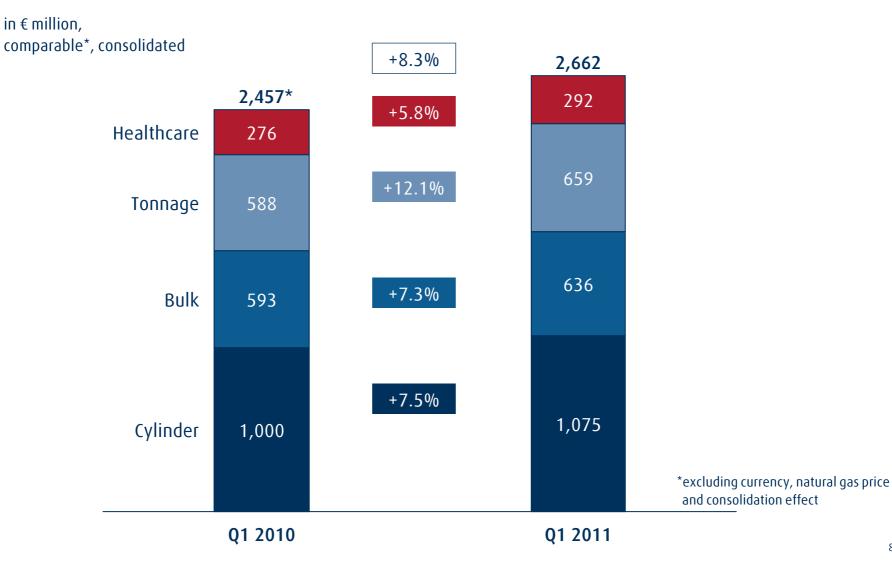




\*excluding currency, natural gas price and consolidation effect

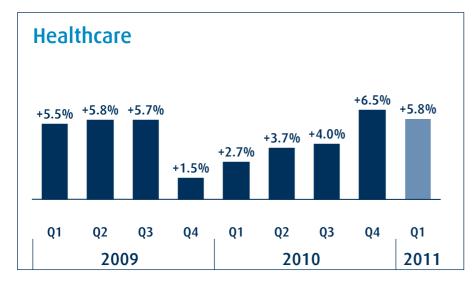
# Gases Division, sales by product areas Growth in all product areas





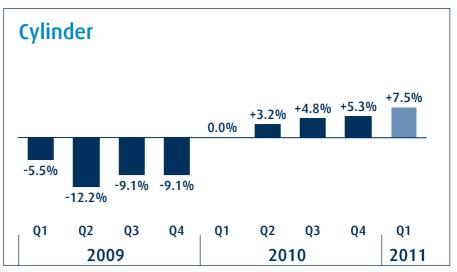
## Gases Division, product areas (comparable yoy growth) Cylinder business continues recovery











### **Engineering Division, key figures** Execution of projects fully on track



- Order intake still characterised by small and midsize projects
- More than 50% of order intake from Europe and North America show a further improvement of the investment climate in mature countries
- Order backlog stays strong at € 3.714 bn (year-end 2010: € 3.965 bn)
- Margin ahead of target margin of at least 8%

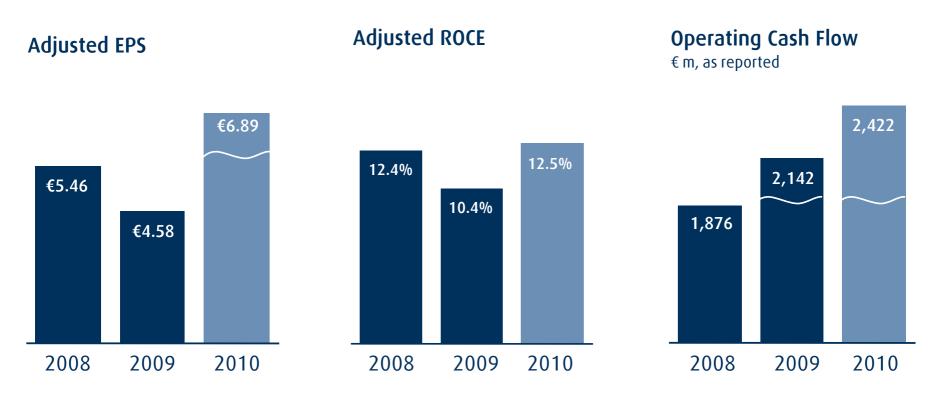
| in € million      | 3M 10 | 3M 11 | Δ ΥοΥ  |
|-------------------|-------|-------|--------|
| Order intake      | 502   | 444   | -11.6% |
| Sales             | 517   | 591   | +14.3% |
| Operating profit* | 51    | 62    | +21.6% |
| Margin            | 9.9%  | 10.5% | +60 bp |

\*EBITDA before non-recurring items and incl. share of net income from associates and joint ventures



#### 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%



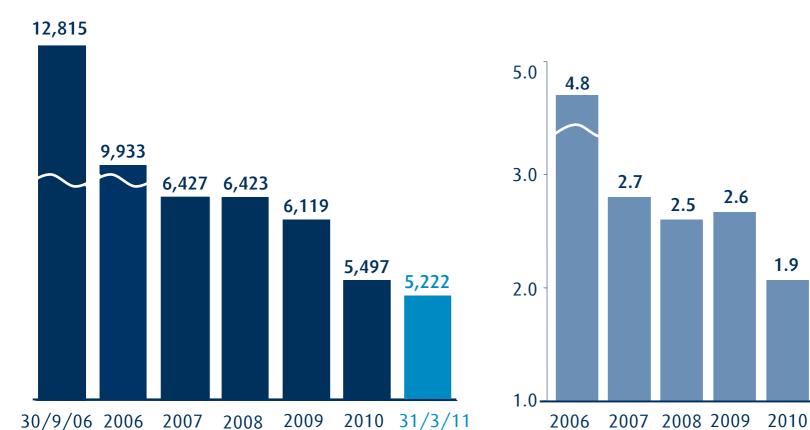
### **Group, solid financial position** Net debt/EBITDA-ratio of 1.7x



1.7

LTM

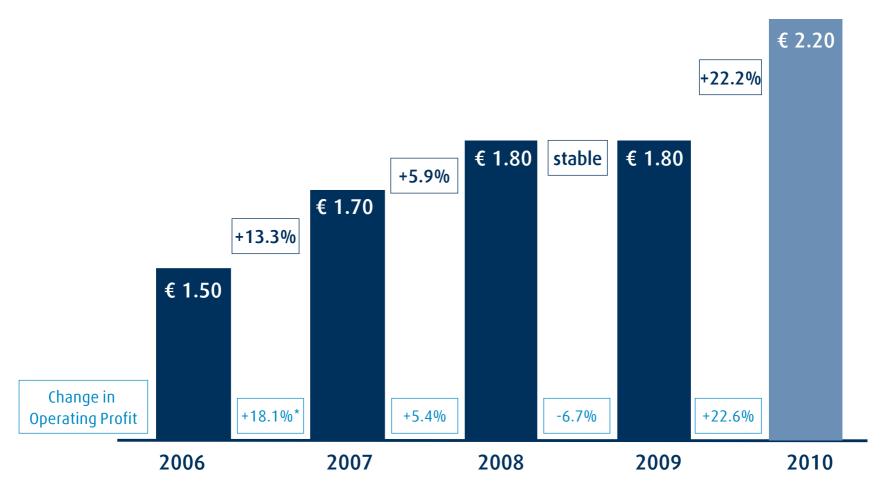
Net debt/EBITDA



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



#### **Consistent dividend policy**

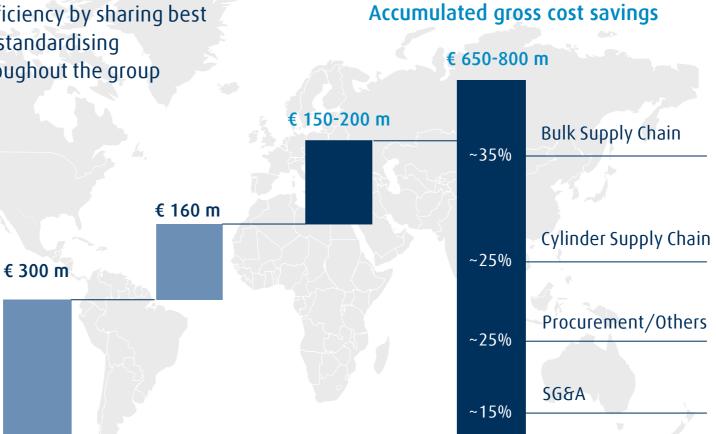


\* Comparable change: prior year figures including twelve months of BOC

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



- Successful start and continuation with savings of ~ € 460 m
- Increase of efficiency by sharing best practices and standardising processes throughout the group



2010

2009

2012

### Agenda

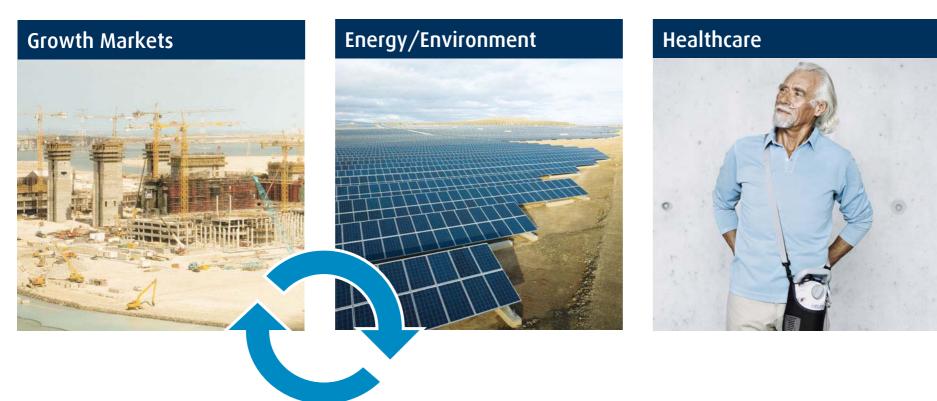


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# **Mega-trends** Leveraging growth with our Gas & Engineering set-up



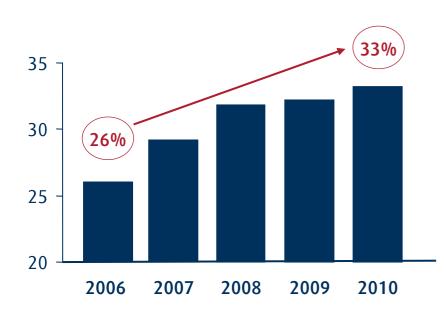


#### Leveraging Gases & Engineering business synergies

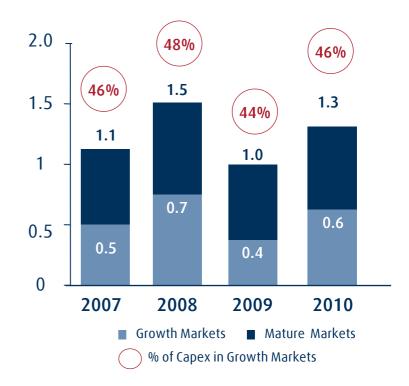
# Mega-trend Growth Markets Growth trend leveraged by strong investment decisions

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#### Growth market sales, excl. JVs (% of total Gases sales)



#### Gases Capex 2007 – 2010 in € bn

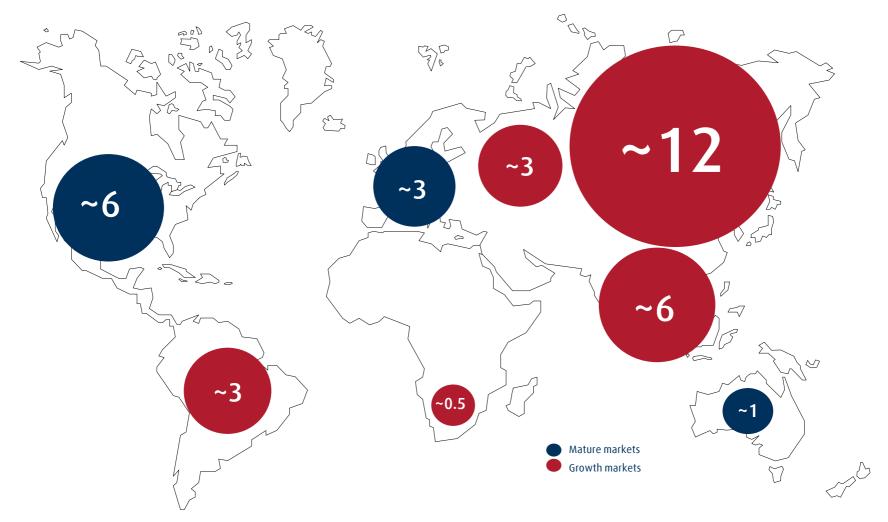


#### Further increasing footprint in Growth Markets

#### Nearly half of Capex allocated to Growth Markets

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



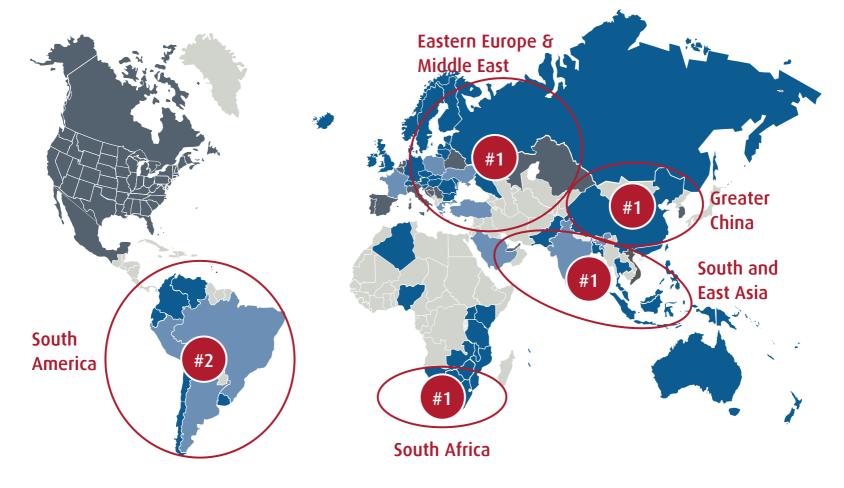


Source: Linde database, figures excl. Equipment, healthcare and major impact out of future growth markets of the energy/environment sector

### **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 basis for sustainable growth



- Around € 2.8 bn investments between 2009-2012 (thereof € 0.6 bn in JVs @ share)
- Project amount 2012 further increased by € 100 m to € 650 m
- Close to 70% of total project-Capex allocated to Growth Markets
- Increasing number of project opportunities with a large portion in Growth Markets

# Project amount by on-stream date (incl. JVs)

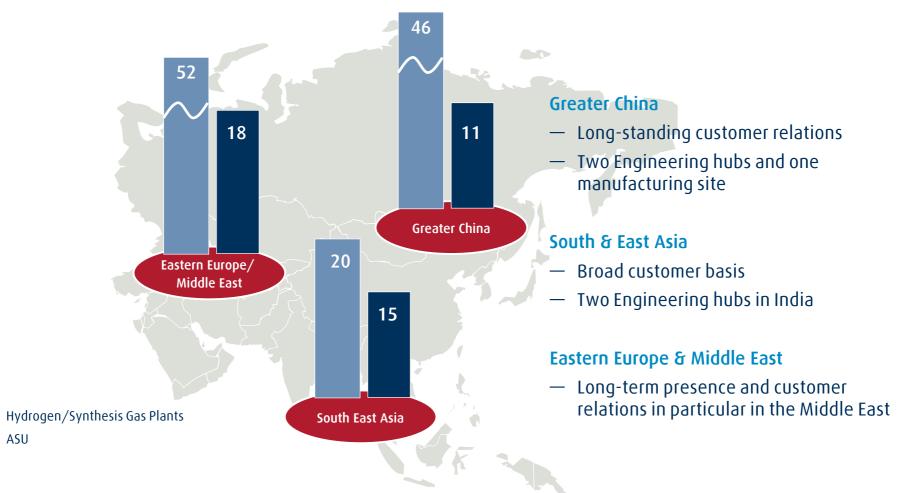


- Project opportunities 12 months forward as published in March 2011 around € 4 billion
- Further project wins in growth and mature markets in all customer segments

# Mega-trend Growth Markets Long-term Engineering footprint in Asia enables growth

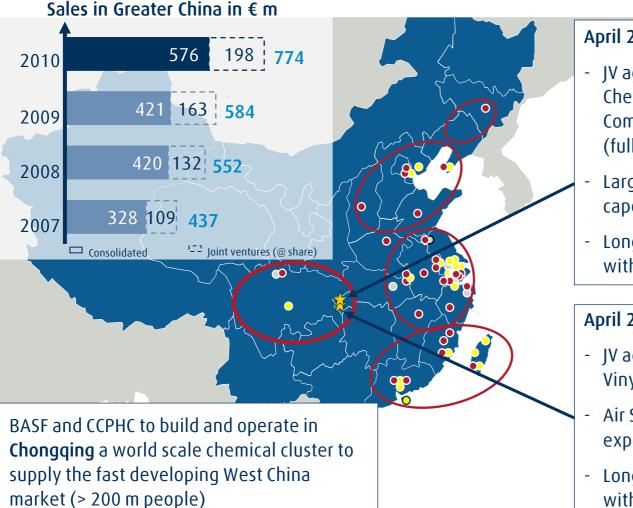


Number of ASU and hydrogen/synthesis gas plants sold by Engineering in Middle East and Asia to external customers since the year 2000\*



# Linde Gases Division in Greater China Chongqing - Developing a new large chemical cluster





#### April 2011

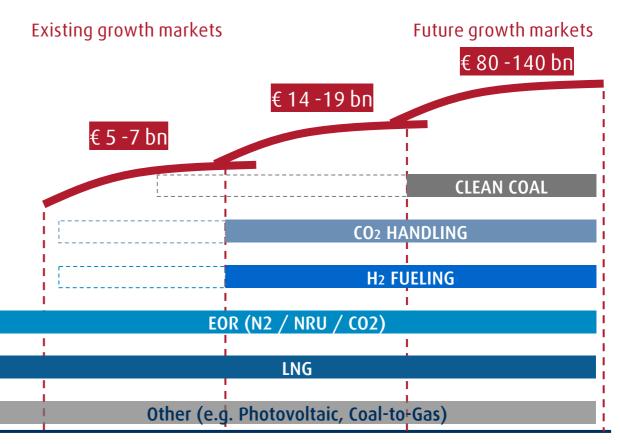
- IV agreement with Chongging Chemical and Pharmaceutical Holding Company (CCPHC), 60% Linde share (fully consolidated)
- Large scale HYCO plant: ~ € 200 m capex, expected on stream date 2014
- Long-term on-site supply contracts with CCPHC and BASE

#### **April 2009**

- JV agreement with Sinopec Sichuan Vinylon Works (SVW), 50% Linde share
- Air Separation plant: ~  $\in$  50 m capex, expected on stream date 2011
- Long-term on-site supply contract with SVW

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

- 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



\*Assuming 100% Build Own Operate and excluding sale of equipment and plants 2015 2020 Annual market revenue in the respective year [11] Pilot projects and small volumes (Plea

(Please find assumptions for estimates on page 51)

2030

#### Energy/Environment annual market revenue estimates in € bn\*

# Mega-trend Energy/Environment Clean Energy development trends







High market potential for merchant LNG:

- No natural gas pipeline grid on the Swedish East 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:

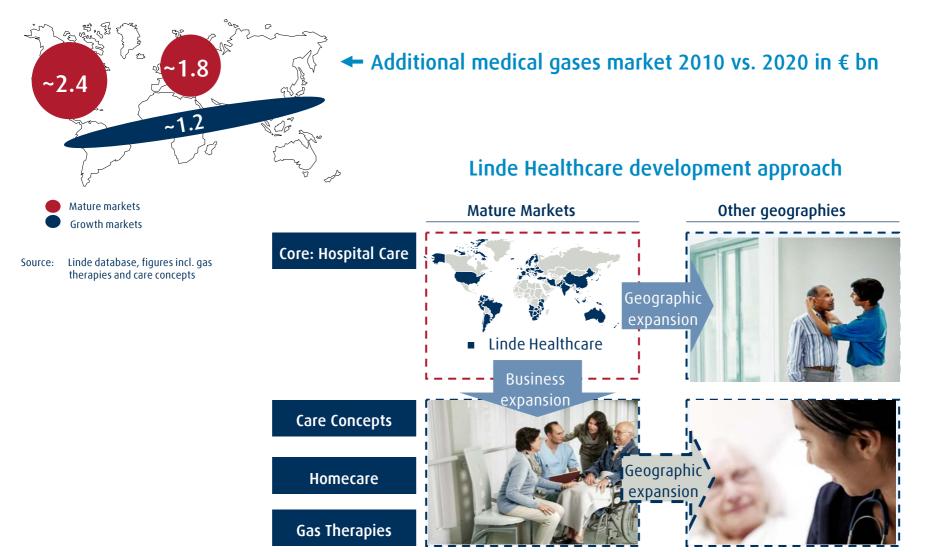
- Replacement of CO<sub>2</sub> generated by gas furnaces with CO<sub>2</sub> from a Shell refinery
- 85 km transportation pipeline with
   150 km of distribution lines
- Prevents combustion of 95 million cubic metres of natural gas

# Future growth markets

Existing growth markets

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





# Agenda

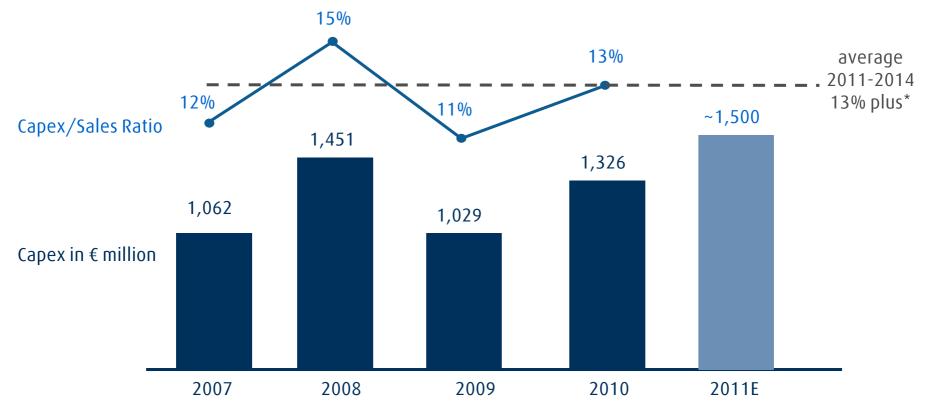


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#### Gases, Capex Development Capex Sales Ratio 2007 - 2010





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

\* plus: additional potential for mega-projects

# Outlook



| 2011 | Group       | <ul> <li>Growth in sales and operating profit vs. 2010</li> <li>Confirmation of HPO-programme: € 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 8%</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> |

### Agenda



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#### Appendix



| in € million                               | 3M 10 | <b>3M 11</b> | in %   |
|--|-------|--------------|--------|
| Sales                                      | 2,894 | 3,325        | +14.9  |
| Operating profit                           | 641   | 761          | +18.7  |
| Margin                                     | 22.1  | 22.9         | +80 bp |
| EBIT before PPA depreciation               | 410   | 507          | +23.7  |
| PPA depreciation                           | 59    | 61           | -      |
| EBIT                                       | 351   | 446          | +27.1  |
| Financial Result                           | -68   | -49          | -      |
| Taxes                                      | 70    | 94           | -      |
| Net income                                 | 213   | 303          | +42.3  |
| Net income – Part of shareholders Linde AG | 198   | 284          | +43.4  |
| EPS in €                                   | 1.17  | 1.67         | +42.7  |
| Adjusted EPS in €                          | 1.41  | 1.88         | +33.3  |
|  |       |              |        |

### **Group, FY 2010** Key P&L items

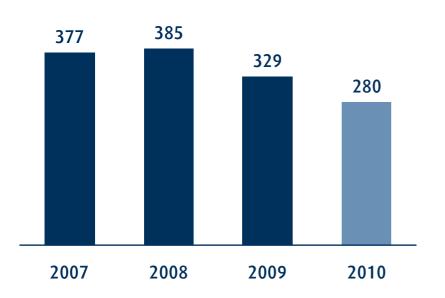


| in € million                               | 2009   | 2010   | Δ in %  |
|--|--------|--------|---------|
| Sales                                      | 11,211 | 12,868 | 14.8    |
| Operating Profit                           | 2,385  | 2,925  | 22.6    |
| Margin                                     | 21.3%  | 22.7%  | +140bps |
| EBIT before PPA depreciation               | 1,460  | 1,933  |         |
| PPA depreciation                           | -293   | -254   |         |
| EBIT                                       | 1,167  | 1,679  |         |
| Financial Results                          | -329   | -280   |         |
| Taxes                                      | -185   | -335   |         |
| Net income – Part of shareholders Linde AG | 591    | 1,005  |         |
| Net income adjusted                        | 772    | 1,167  | 51.2    |
| EPS in €                                   | 3.51   | 5.94   |         |
| EPS in € adjusted                          | 4.58   | 6.89   | 50.4    |

#### **Group** Financial Result and Tax Rate



Financial Result (in € million)



Tax Rate



32

### **Group, Cash Flow Statement** Operating Cash Flow up 10.8% to € 440 m



| in € million                            | Q1 10 | Q1 11 |
|---|-------|-------|
| Operating profit                        | 641   | 761   |
| Change in Working Capital               | -98   | -180  |
| Other changes                           | -146  | -141  |
| Operating Cash Flow                     | 397   | 440   |
| Investments in<br>tangibles/intangibles | -223  | -237  |
| Acquisitions/Financial investments      | -6    | -13   |
| Other                                   | 38    | 43    |
| Investment Cash Flow                    | -191  | -207  |
| Free Cash Flow before<br>Financing      | 206   | 233   |
| Interests and swaps                     | -22   | -45   |
| Dividends and other changes             | -1    | -2    |
| Net debt decrease (+)/<br>increase (-)  | +183  | +186  |

# **Group, FY 2010** Cash flow statement



| 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  |
| Financing activities                   | -23   | -423  | -102  | -30   | -578   | -630   |
| Net debt increase (+) / reduction (-)  | 183   | -163  | 302   | 457   | -779   | -522   |

# **Group, solid financial position** FY 2010: Stable long-term financing

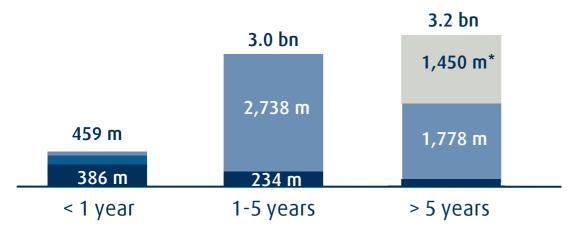
#### Well-spread and long-dated maturity profile

- 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

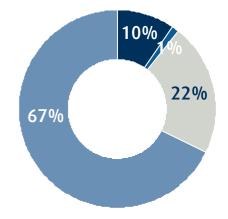
- Long-term bond financing covers approx. 90% of financial debt
- Strategic funding in EUR, GBP, USD and AUD

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





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

# **Group, solid financial position** FY 2010: Liquidity reserve further strengthened

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#### € 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
- 2,500 3,200 No financial covenants Fully undrawn More than € 1 bn cash Cash & **Securities** 31/12/10 Short-term **Financial debt** 1,159 31/12/10 in € million Credit Liquidity -459 Facility reserve

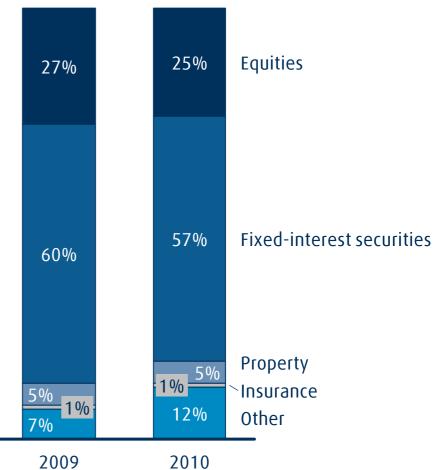
#### **Group, Pensions** Key figures



#### Net obligation

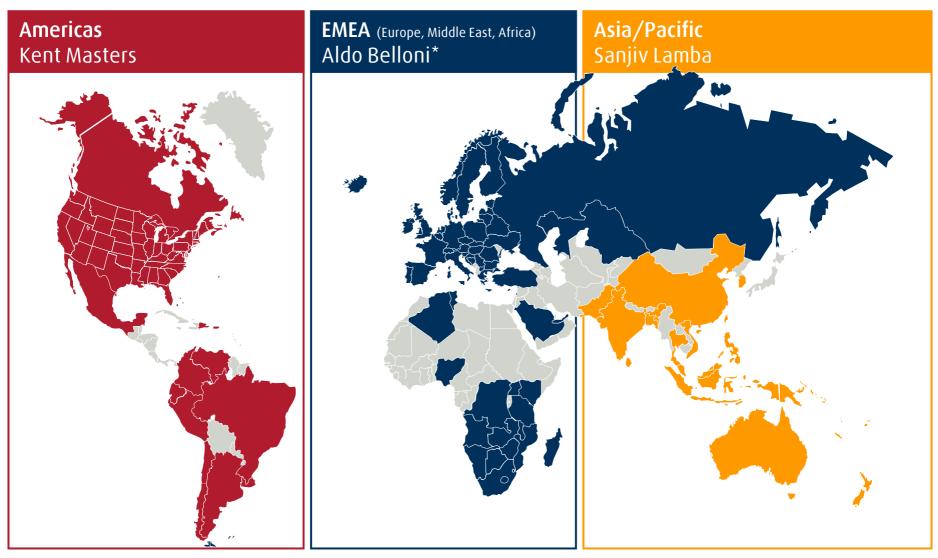
|                        | DBO   | Plan  | Net        |
|------------------------|-------|-------|------------|
| in € million           |       | asset | obligation |
| 01.01.2010             | 4,744 | 3,896 | 848        |
| Service costs          | 93    |       | 93         |
| Net financing          | 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**, New Operating Segments







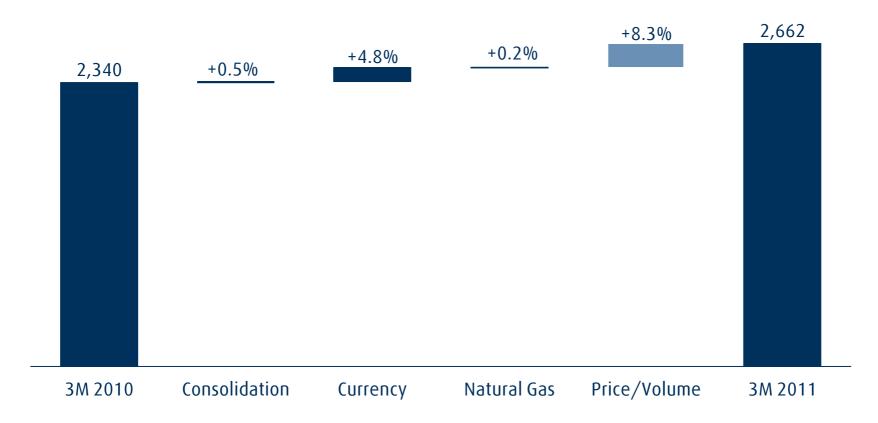
| EMEA (€ m)                     | Q1 2010 | Q2 2010 | Q3 2010 | Q4 2010 | FY 2010 |
|--------------------------------|---------|---------|---------|---------|---------|
| Sales                          | 1.264   | 1.349   | 1.365   | 1.352   | 5.330   |
| Operating profit <sup>1)</sup> | 351     | 386     | 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 <sup>1)</sup> | 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 <sup>1)</sup> | 112     | 136     | 129     | 122     | 499     |
| Operating margin               | 21,8%   | 23,4%   | 21,3%   | 21,1%   | 21,9%   |

1) EBITDA before non-recurring items, including share of net income from associates and joint ventures

#### **Division Gases, sales bridge** 3M sales increase of 8.3% on comparable basis



#### $\mathsf{in} \in \mathsf{million}$



### Gases Division, Joint Ventures Asian projects drive growth of our JV sales

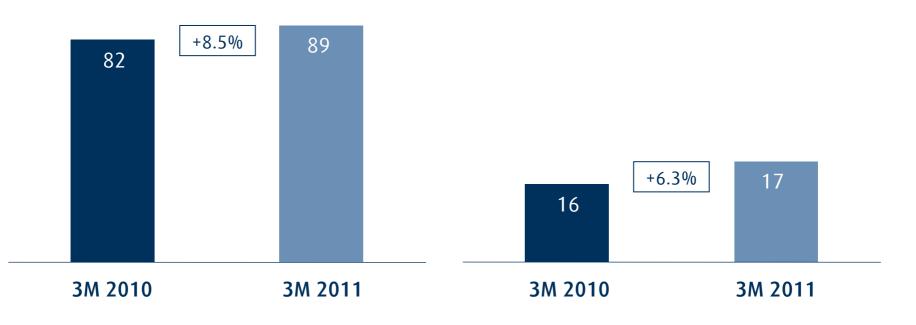


in € million

#### Proportionate Sales

(not incl. in the Group top-line)

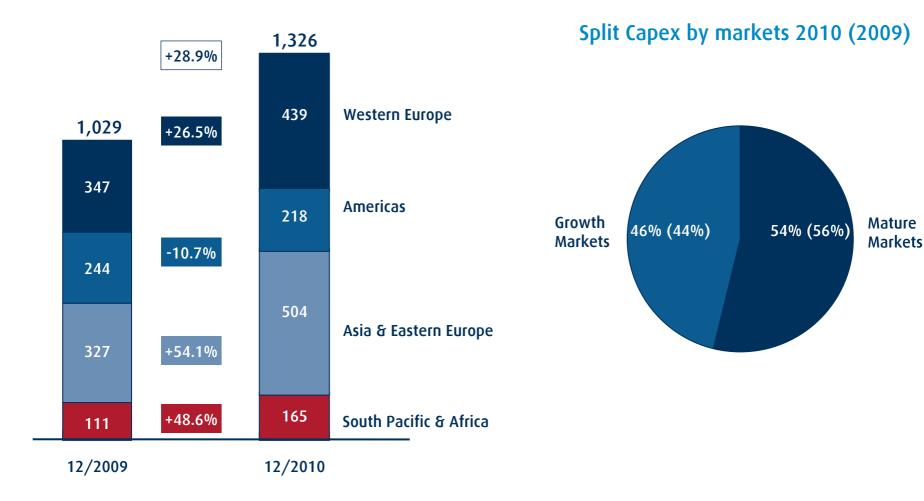
#### **Share of Net Income** (contribution to operating profit)



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

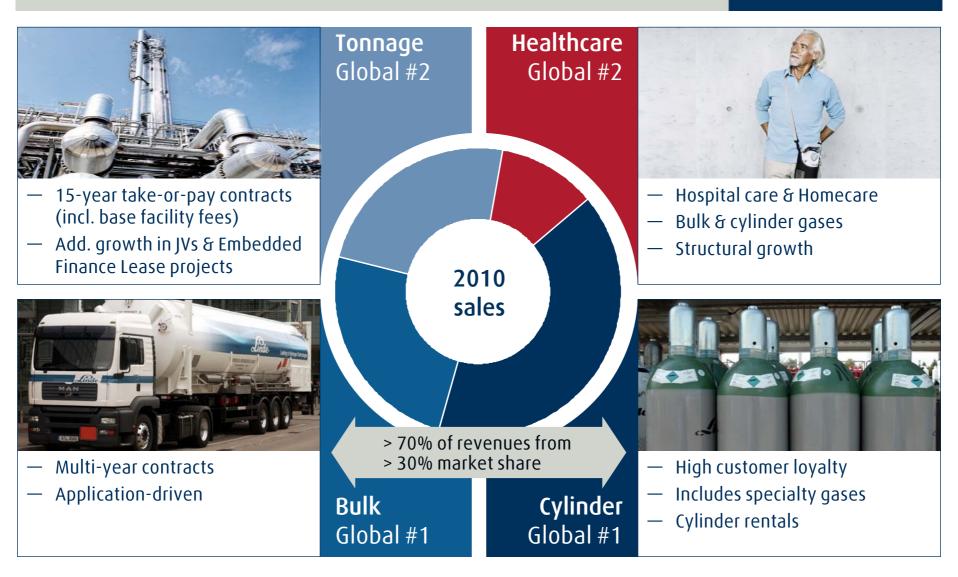


in € million



## Gases Division, product areas Various distribution mix served from one product source





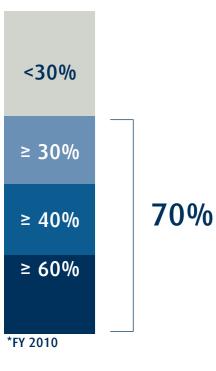


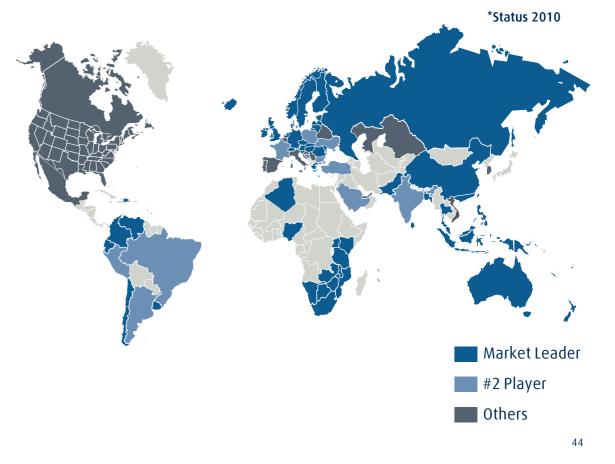
In bulk & cylinder: >70% of revenues from >30% market share positions

Sales split by market shares

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



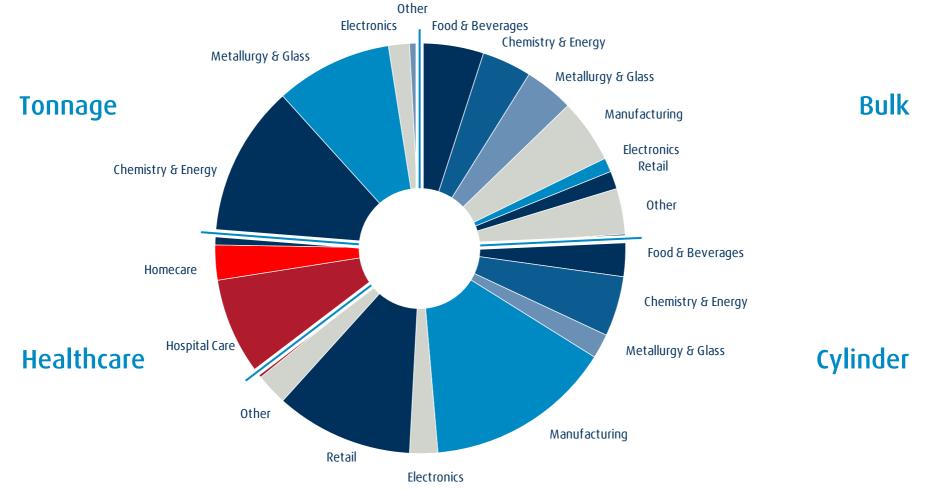




## **Gases Division** Stability driven by a broad customer base

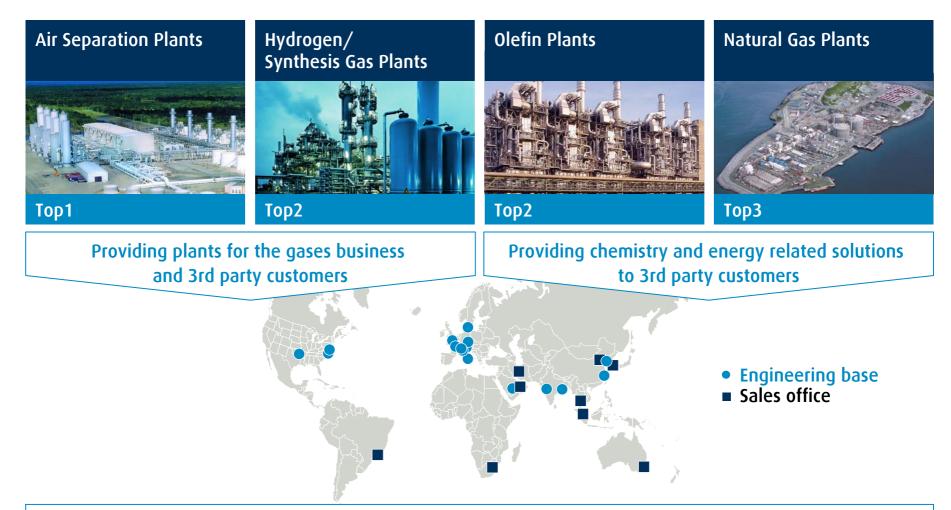


#### 2010: Split of product areas by major end-customer groups



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

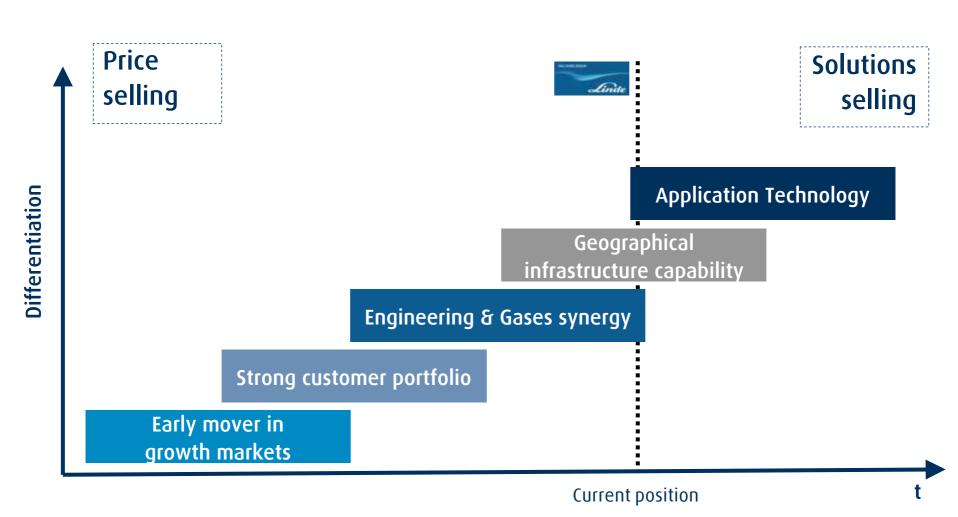




Supporting the energy/environmental mega-trend and leveraging customer relations for gas projects

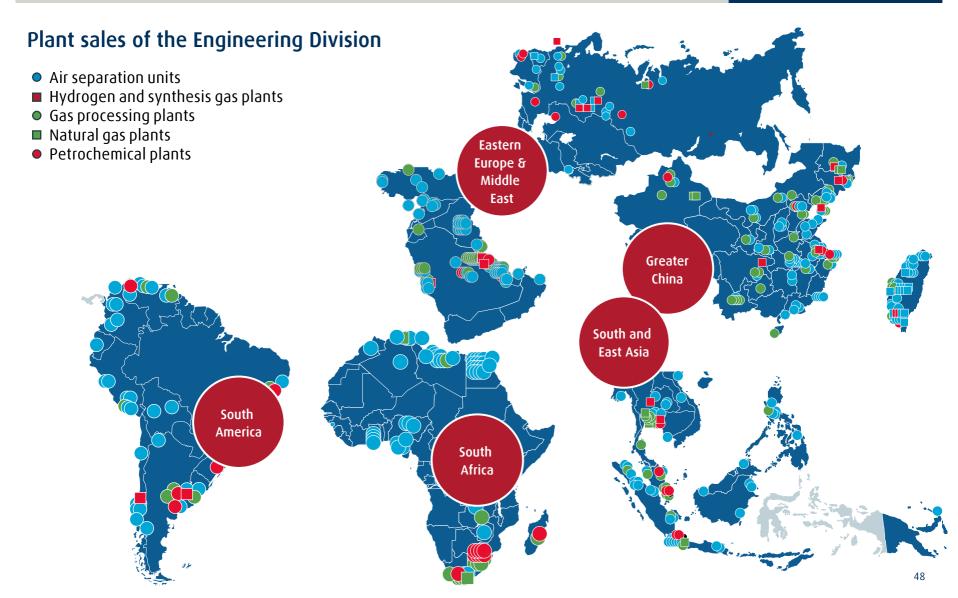
## Mega-trend Growth Markets Business approach in Growth Markets





## Mega-trend Emerging Markets Strong customer relationships in Engineering





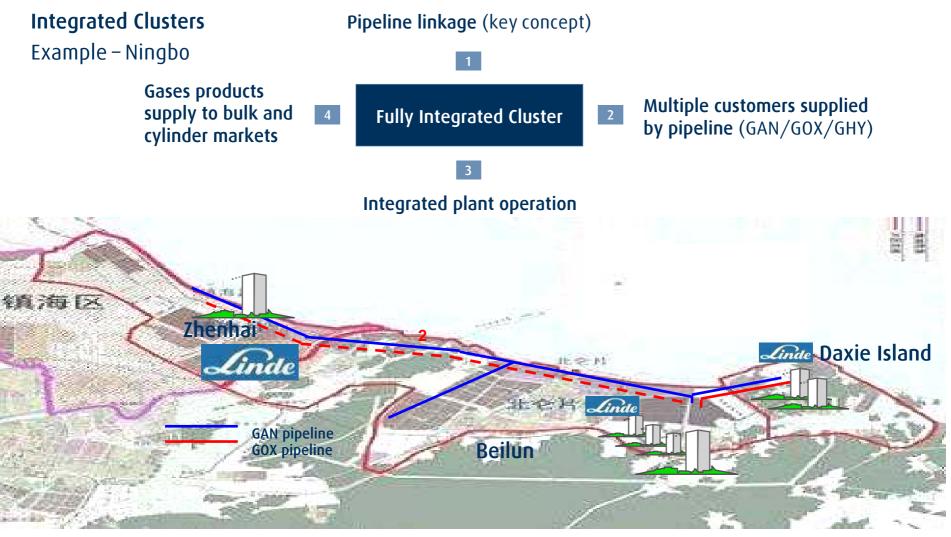
## Mega-trend Growth Markets Leading player in Greater China





## Number 1 with customers Integrated offer in selected industrial poles





# Clean Energy market estimation 2020 & 2030 top down

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#### General assumptions:

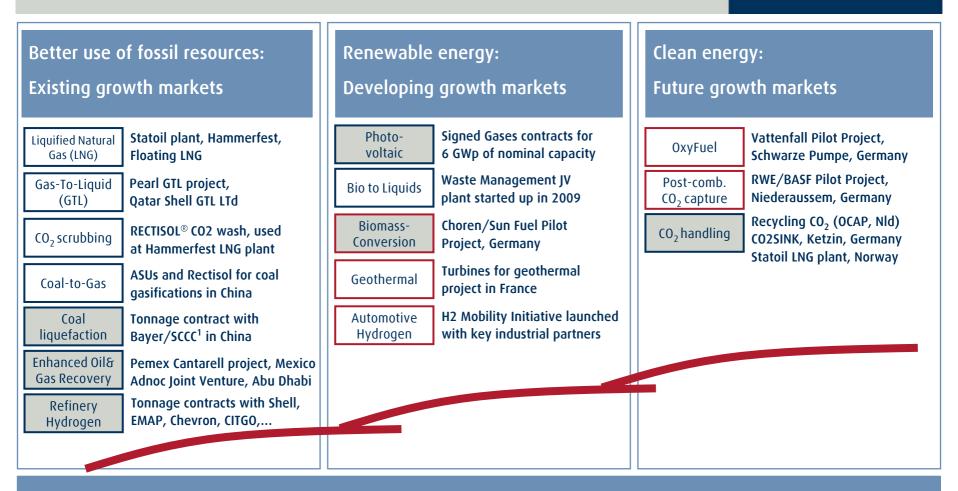
- Market numbers are directional only and w/o inflation or fx
- Oil price development at 80-100 USD/bll
- Outsourced gases market only (excl. captive market or equipment sales),

|  | Market size in € bn<br>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                   | <ul> <li>Triple-digit number of 1 GW Carbon Capture<br/>(1.5 Gt/a CO2 at EUR25-40/t)</li> </ul>   |        |       | 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>   |        | 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 |

\* Assuming 100% Build Own Operate and excluding sale of equipment and plants

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

# THE LINDE GROUP



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

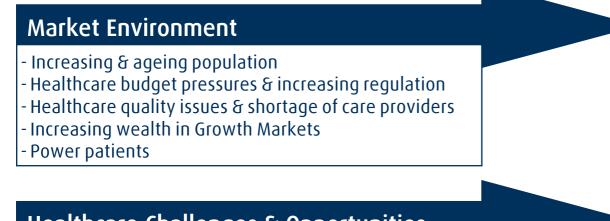
<sup>1</sup> Shanghai Cooking & Chemical Corporation

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



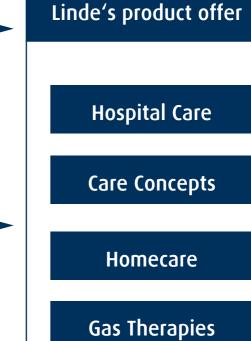
#### Linde Global Business Unit Healthcare :

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



#### Healthcare Challenges & Opportunities

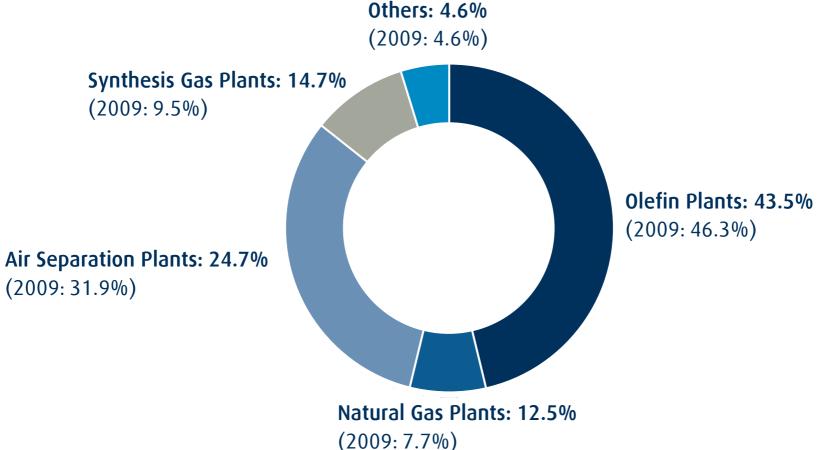
- Increased use of medical gases & related devices, services
- Increase in chronic diseases
- Therapies offering quality of life & cost reductions
- Privatization of care/outsourcing of services



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

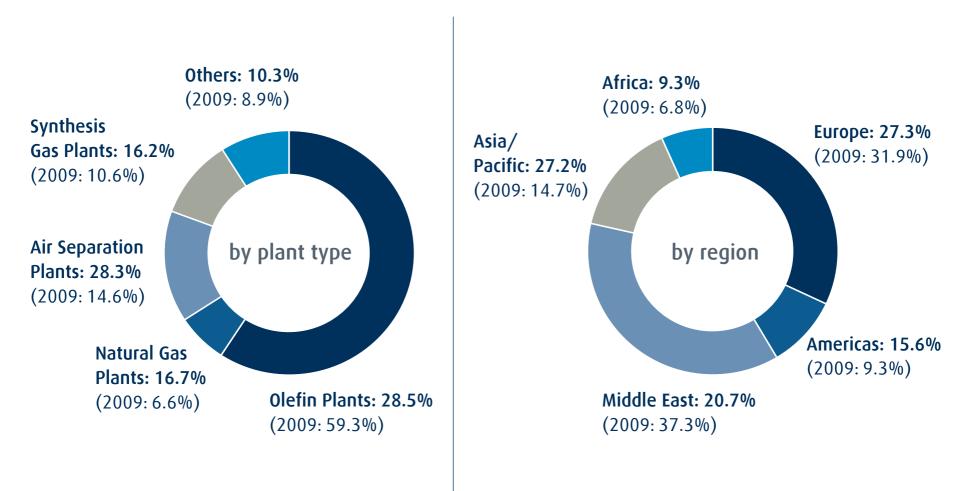


Order backlog by plant type (31/12/2010)



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





## Group, Definition of financial key figures



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

#### **Investor Relations**



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#### **Financial Calendar**

- Interim Report January to June: 29 July 2011
- Interim Report January to September: 28 October 2011