

## Continuously Improving.

LeadIng.

London, $16^{\text {th }}$ June 2011 Prof. Dr Wolfgang Reitzle

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## Agenda

1. Operational and Financial Performance
2. Strategic Focus:

- Growth Markets
- Energy / Environment
- Healthcare

3. Outlook

Appendix

## Highlights - Q1 2011

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 $€ 761 \mathrm{~m}$
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 $€ 440 \mathrm{~m}$

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 <br> Unchanged growth momentum drives group sales up 14.9\%



## Group, operating profit by Divisions

Further group margin improvement by 80 bp to $22.9 \%$

| in $€$ million, as reported | 3M 2010 |  | $\begin{gathered} 3 M 2011 \\ 761 \end{gathered}$ | Gases Divi |
| :---: | :---: | :---: | :---: | :---: |
|  | 641 | +18.7\% |  | - Operating profit* on double-digit growth track |
|  |  |  |  | - Operating margin further increased by 60 bp yoy to $27.3 \%$ |
| Gases | 625 | +16.3\% | 727 | - 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\% |
| Engineering | 51 | +21.6\% | 62 | - Strong margin performance driven by successful project execution |
| Other/Cons. | -35 |  | -28 |  |
| Op. margin | 22.1\% |  | 22.9\% | on reported basis |

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

in $€$ million


- Further recovery in Cylinder in Eastern Europe


## ASIA/PACIFIC



- Growth led by Greater China
- Strong growth in Tonnage in all regions also supported by ramp ups and start ups among others in China and Malaysia


## AMERICAS



- Continuous growth momentum in both regions
- Tonnage as main driver in North America
- Double-digit growth in all product areas in South America


## Gases Division, operating profit by operating segment Operating margin further increased to 27.3\%

in $€$ million


- Continuous implementation of HPO initiatives supports margin development in all regions
- EMEA and AMERICAS drive the margin improvement in the Gases Division in the first quarter
- ASIA/PACIFIC margin in the first quarter slightly affected by pre-investments in structural growth initiatives in ASIA


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

in $€$ million,
comparable*, consolidated


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 | $\Delta$ YoY |
| :--- | ---: | ---: | ---: |
| Order intake | 502 | 444 | $-11.6 \%$ |
| Sales | 517 | 591 | $+14.3 \%$ |
| Operating profit* | 51 | 62 | $+21.6 \%$ |
| Margin | $9.9 \%$ | $10.5 \%$ | +60 bp |

[^0]
## Group <br> 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\%

Adjusted EPS


Adjusted ROCE


## HPO (High Performance Organisation)

Covering the full value chain in all regions

- Successful start and continuation with savings of $\sim € 460 \mathrm{~m}$
- Increase of efficiency by sharing best

Accumulated gross cost savings practices and standardising processes throughout the group


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## Mega-trends

Leveraging growth with our Gas \& Engineering set-up


Leveraging Gases \& Engineering business synergies


## Mega-trend Growth Markets <br> Growth trend leveraged by strong investment decisions

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


Further increasing footprint in Growth Markets

Gases Capex 2007-2010 in € bn

\% of Capex in Growth Markets

Nearly half of Capex allocated to Growth Markets

## Mega-trend Growth Markets

Additional industrial gases market 2010 vs. 2020 in $€$ bn

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## 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 $€ 100 \mathrm{~m}$ to $€ 650 \mathrm{~m}$
- 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)


- Market opportunities for projects 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 <br> 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

- JV agreement with Chongqing 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 BASF


## April 2009

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


## 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 <br> 福建联合石油化工有限公司 |  |
| :---: | :---: | :---: |

chemicals Bayer wanhuante Bonwna Dow




## 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

Energy/Environment annual market revenue estimates in € bn*


## Mega-trend Energy/Environment Clean Energy development trends



Reduction of CO 2 Emission by 170 k tons per annum:

- Replacement of $\mathrm{CO}_{2}$ generated by gas furnaces with $\mathrm{CO}_{2}$ 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

## Mega-trend Healthcare

Growth through innovation and regional expansion


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## Outlook

| 2011 | Group | - Growth in sales and operating profit vs. 2010 <br> - Confirmation of HPO-programme: $€ 650-800 \mathrm{~m}$ of gross cost savings in 2009-2012 |
| :---: | :---: | :---: |
|  | Gases | - Sales increase vs. 2010 <br> - Operating profit to grow at a faster pace than sales |
|  | Engineering | - Sales at the same level as in 2010 <br> - Operating margin of at least 8\% |
| 2014 | Group | - Operating profit of at least $€ 4$ bn <br> - Adjusted ROCE of $14 \%$ or above |
|  | Gases | - Average capex/sales ratio 13\% plus <br> - Revenue increase above market growth <br> - Further increase in productivity |

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- High Performance Organisation
- Growth Potential Mega-trends

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## Group Financial Highlights 3M 2011

| in $€$ million | 3M 10 | 3M 11 | 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 | $\Delta$ in $\%$ |
| :--- | ---: | ---: | ---: |
| Sales | 11,211 | 12,868 | 14.8 |
| Operating Profit | 2,385 | 2,925 | 22.6 |
| Margin | $21.3 \%$ | $22.7 \%$ | +140 bps |
| 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 <br> Financial Result and Tax Rate

Financial Result (in € million)


Tax Rate


## Group, Cash Flow Statement <br> 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 <br> 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 | $\mathbf{2 0 6}$ | $\mathbf{2 6 0}$ | 404 | 487 | 1,357 | $\mathbf{1 , 1 5 2}$ |
| Financing activities | $-\mathbf{2 3}$ | -423 | -102 | -30 | -578 | -630 |
| Net debt increase (+) / reduction (-) | $\mathbf{1 8 3}$ | -163 | $\mathbf{3 0 2}$ | $\mathbf{4 5 7}$ | $-\mathbf{- 7 7 9}$ | -522 |

## Group, dividends <br> Proposed dividend increased by $22.2 \%$ to $€ 2.20$

Consistent dividend policy
$€ 2.20$
$+22.2 \%$


## 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 €)


Financial debt, by instrument


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


## Group, solid financial position

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


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

Net debt in € bn


Net debt/EBITDA


## Group, Pensions Key figures

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Net obligation

| in € million | DB0 | 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, New Operating Segments

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## Americas

Kent Masters


EMEA (Europe, Middle East, Africa) Aldo Belloni*

## Asia/Pacific

Sanjiv Lamba

## 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 ${ }^{1 \text { 1) }}$ | 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 ${ }^{1 \text { 1) }}$ | 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 ${ }^{1 \text { 1) }}$ | 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

3 M sales increase of $8.3 \%$ on comparable basis
in € million


## Gases Division, Joint Ventures

 Asian projects drive growth of our JV salesin € million

Proportionate Sales
(not incl. in the Group top-line)

Share of Net Income
(contribution to operating profit)



## Gases Division <br> Split of Capex by operating segment

in $€$ million


Split Capex by markets 2010 (2009)


## Gases Division, product areas

Various distribution mix served from one product source
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- 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

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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
$€ 10.2$ bn*



## Gases Division <br> 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


Natural Gas Plants


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 Emerging Markets

Strong customer relationships in Engineering

## Plant sales of the Engineering Division

- Air separation units
- Hydrogen and synthesis gas plants
- Gas processing plants
- Natural gas plants
- Petrochemical plants



## Number 1 with customers

Integrated offer in selected industrial poles


## Integrated Clusters

Example - Ningbo
Pipeline linkage (key concept)

Gases products supply to bulk and cylinder markets

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
- $\quad$ Oil price development at 80-100 USD/bll
- Outsourced gases market only (excl. captive market or equipment sales),

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


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

| Better use of fossil resources: Existing growth markets | Renewabl Developin | energy: <br> growth markets | Clean energy: <br> Future growth markets |  |
| :---: | :---: | :---: | :---: | :---: |
| Liquified Natural <br> Gas (LNG) Statoil plant, Norway <br> Floating LNG | Photovoltaic | Signed Gases contracts for 6 GWp of nominal capacity | OxyFuel | Vattenfall Pilot Project, Schwarze Pumpe, Germany |
| Gas-To-Liquid <br> (GTL) Pearl GTL project, <br> Qatar Shell GTL LTd <br>   | Bio to Liquids | Waste Management JV plant started up in 2009 | Post-comb. $\mathrm{CO}_{2}$ capture | RWE/BASF Pilot Project, Niederaussem, Germany |
| $\mathrm{CO}_{2}$ scrubbingRECTISOL ${ }^{\circledR}$ CO2 wash, used <br> at Hammerfest LNG plant | BiomassConversion | Choren/Sun Fuel Pilot Project, Germany | $\mathrm{CO}_{2}$ handling | Recycling $\mathrm{CO}_{2}$ (OCAP, NId) CO2SINK, Ketzin, Germany Statoil LNG plant, Norway |
| Coal-to-Gas $\quad$ASUs and Rectisol for coal <br> gasifications in China | Geothermal | Turbines for geothermal project in France |  |  |
| Coal <br> liquefaction <br> Tonnage contract with Bayer/SCCC ${ }^{1}$ in China | Automotive Hydrogen | H2 Mobility Initiative launched with key industrial partners |  |  |
|  <br> Gas Recovery Pemex Cantarell project, Mexico <br> Adnoc Joint Venture, Abu Dhabi <br>   |  |  |  |  |
| RefineryHydrogenTonnage contracts with Shell, <br> EMAP, Chevron, CITGO,... |  |  |  |  |

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

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

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## Linde Global Business Unit Healthcare :

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

| Market Environment | Linde's product offer |
| :--- | :---: |
| - Increasing \& ageing population <br> - Healthcare budget pressures \& increasing regulation <br> - Healthcare quality issues \& shortage of care providers <br> - Increasing wealth in Growth Markets <br> - Power patients |  |
| Healthcare Challenges \& Opportunities | Hospital Care |
| - Increased use of medical gases \& related devices, <br> services <br> - Increase in chronic diseases <br> - Therapies offering quality of life \& cost reductions <br> - Privatization of care/outsourcing of services | Care Concepts |

## Engineering Division

Order backlog diversified and of high quality

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

Others: $4.6 \%$
(2009: 4.6\%)
Synthesis Gas Plants: 14.7\% (2009: 9.5\%)

Air Separation Plants: 24.7\% (2009: 31.9\%)

Olefin Plants: 43.5\% (2009: 46.3\%)

Natural Gas Plants: 12.5\%
(2009: 7.7\%)

## Engineering Division

FY 2010 order intake by plant type and region

Others: 10.3\%
(2009: 8.9\%)


Olefin Plants: 28.5\% (2009:59.3\%)

Africa: 9.3\%
(2009: 6.8\%)
Asia/
Pacific: 27.2\% (2009: 14.7\%)


Middle East: 20.7\%
(2009:37.3\%)

## Group, Definition of financial key figures

| Operating 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 ROCE | Return | Operating profit <br> - depreciation / amortisation <br> excl. depreciation/amortization from purchase price allocation |
|  | Average <br> Capital 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 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


[^0]:    *EBITDA before non-recurring items and incl. share of net income from associates and joint ventures

