



Nomura Global Chemicals Group Leaders Conference

## Continuously Improving.

Lead**Ing.** 

THE LINDE GROUP

Bordeaux, 24 March 2011 Georg Denoke Member of the Executive Board and CFO



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## Agenda



#### 1. 2010 Operational and Financial Performance

- 2. Strategic Focus:
  - Growth Markets
  - Energy / Environment
  - Healthcare
- 3. Outlook

Appendix

## Highlights 2010 Continuously Improving

# THE LINDE GROUP

#### Group sales and profit on record level

Group sales up 14.8% to € 12.868 bn Group operating profit increased by 22.6% to € 2.925 bn Operating margin up by 140 bp to 22.7%, Gases operating margin further improved to 27% Strong operating cash flow further improved by 13.1% to € 2.422 bn Net debt down by € 622 m to € 5.497 bn

## **Double-digit earnings growth driven by recovery and our HPO initiatives** Growth markets keep their strong momentum, led by Greater China Mature regions in Western Europe and the US also show improvements

HPO savings support improvement of operating margin

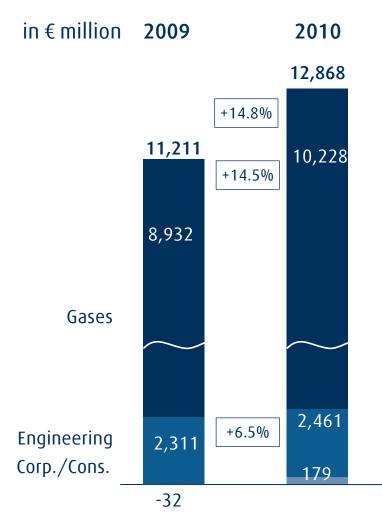
#### Outlook

New mid-term targets launched for 2014

## Group, sales by Divisions

### Recovery above pre-crisis level proves potential of our set-up

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#### Gases Division

- Comparable\* sales increase of 5.7%
- Demand recovery visible in all product areas
- Ongoing currency support from weaker Euro: major translational effects on AUD and ZAR

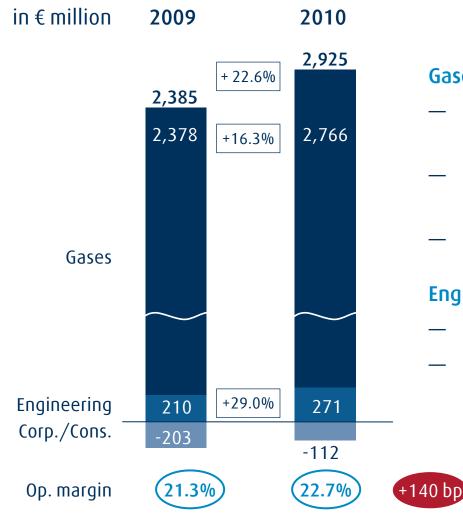
#### **Engineering Division**

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

\*excluding currency, natural gas price and consolidation effects

### **Group, operating profit by Divisions** Continuous strong margin performance in all Divisions

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#### **Gases Division**

- Operating profit 16.3% above 2009 (14.4% above record year 2008)
- Further profitability improvement with full year margins up by 40 bp to 27.0%
- Successful continuation of HPO

#### **Engineering Division**

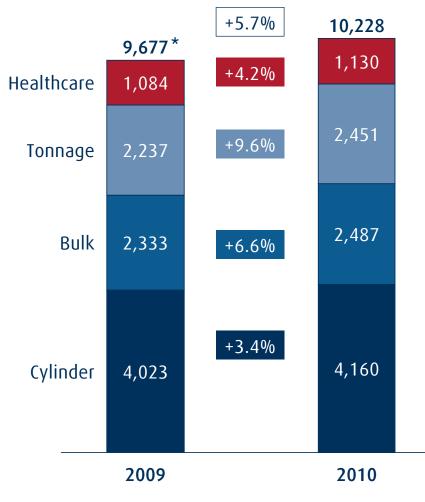
- Margin of 11.0%, ahead of our 8% target
- Strong margin performance driven by successful project execution

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

## **Gases Division, sales by product areas** Balanced mix as basis for growth

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in € million, comparable\* (consolidated)



#### Healthcare continuous growth

— The Mega-trend continues with clear growth opportunities

#### Tonnage sales above year 2008 record level

- Strong growth of take-or-pay contracts
- Continuous contribution from project ramp-ups
- Increased opportunities in particular in Growth Markets

#### Positive performance of the merchant business

- Solid growth in bulk business
- Late cyclical cylinder business growth gains speed

\*excluding currency, natural gas price and consolidation effect

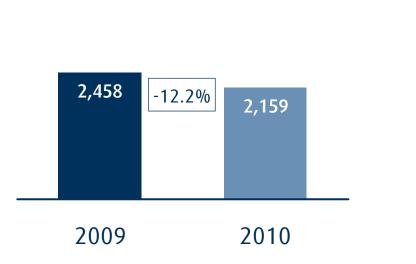
## **Engineering Division** Order backlog remains high at € 4 bn

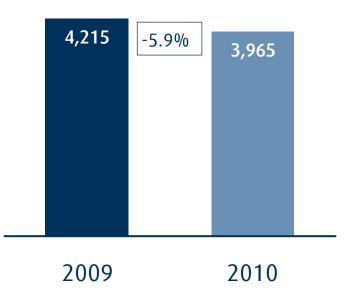
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- Q4 order intake of  $\in$  621 m shows the engineering business further recovers
- Order backlog remains high with almost € 4 bn and an increased number of midsize and also smaller projects

**Order intake** € 2,159 million

### **Order backlog** Successful project executions



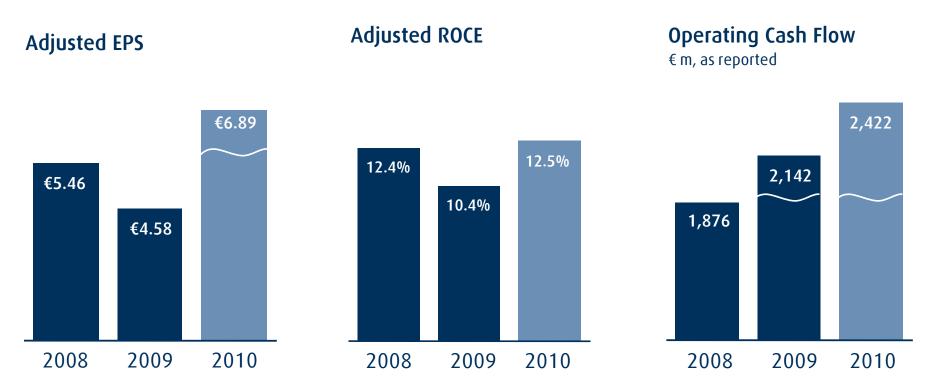


## **Group** Financial key indicators at record levels

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

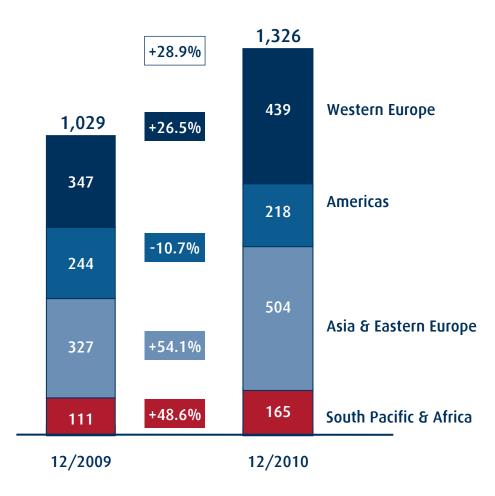
- Profitable growth for our shareholders: adjusted EPS and adjusted ROCE
- Strong cash flow generation further improved: OCF up by 13.1%



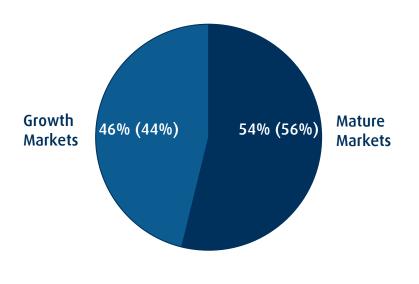
## **Gases Division** Split of Capex by operating segment



#### in € million



#### Split Capex by markets 2010 (2009)



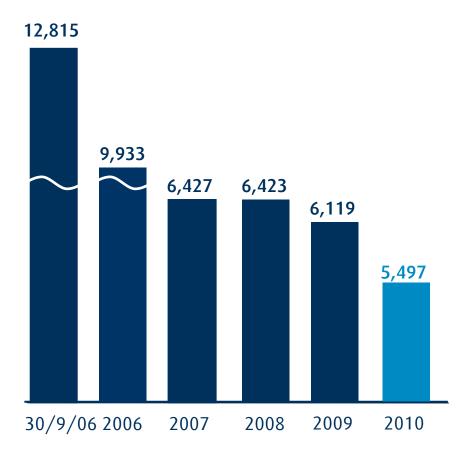
## **Group, solid financial position** Successful execution of our de-leveraging schedule

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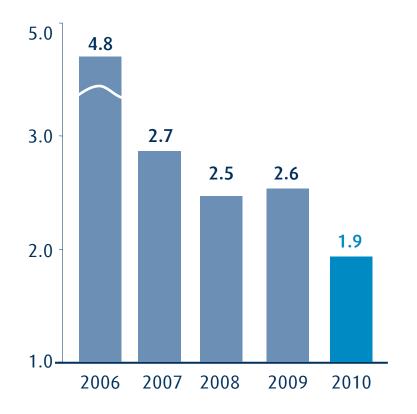
2010 Net debt/EBITDA ratio of 1.9x

Net debt in € bn

— Rating upgrade by S&P and Moody's towards A- and A3 respectively, both with stable outlook

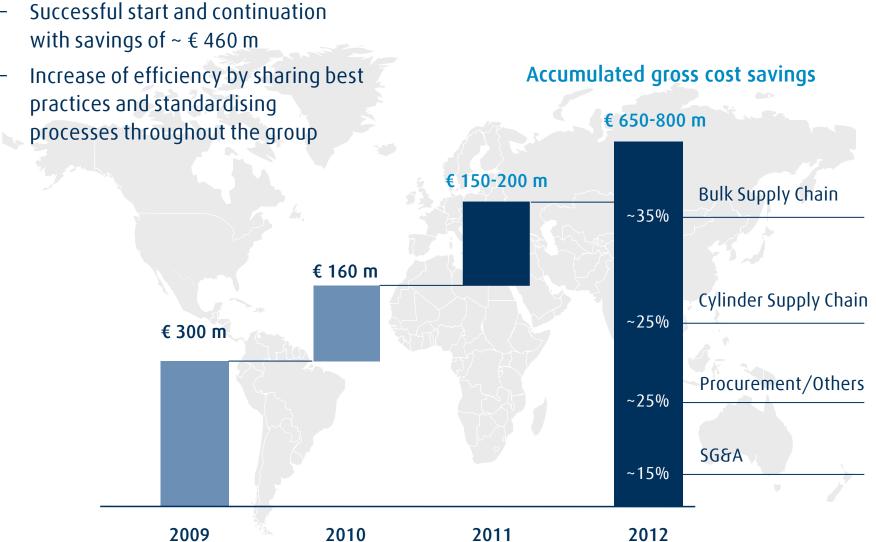


#### Net debt/EBITDA



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

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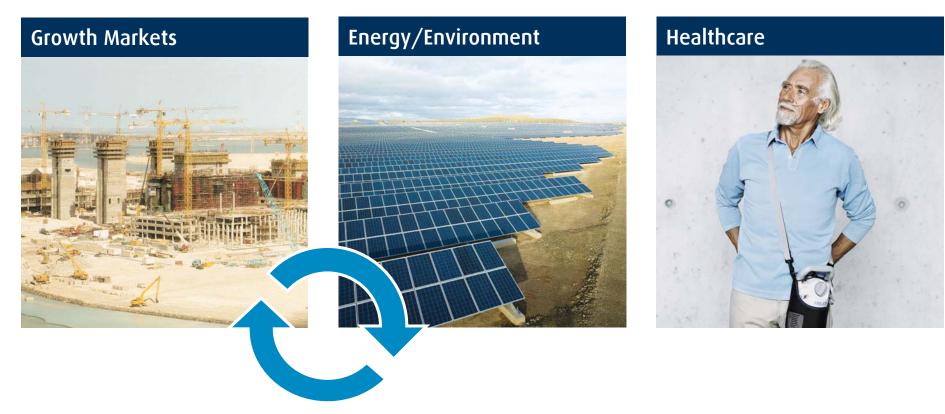


- Energy / Environment
- Healthcare
- 3. Outlook

Appendix

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



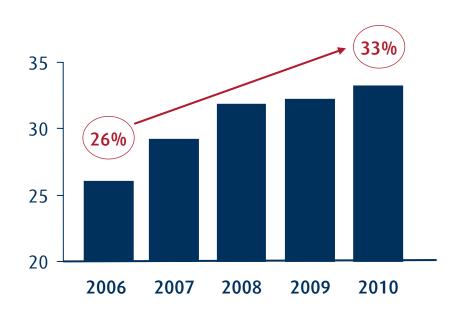


#### Leveraging Gases & Engineering business synergies

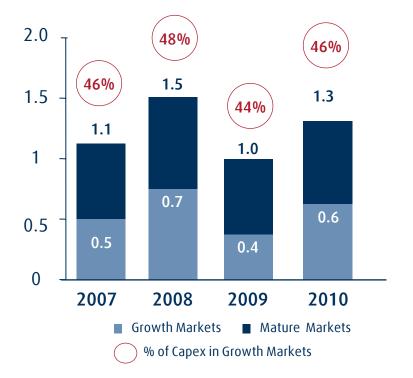
## **Mega-trend Growth Markets** Growth trend leveraged by strong investment decisions

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



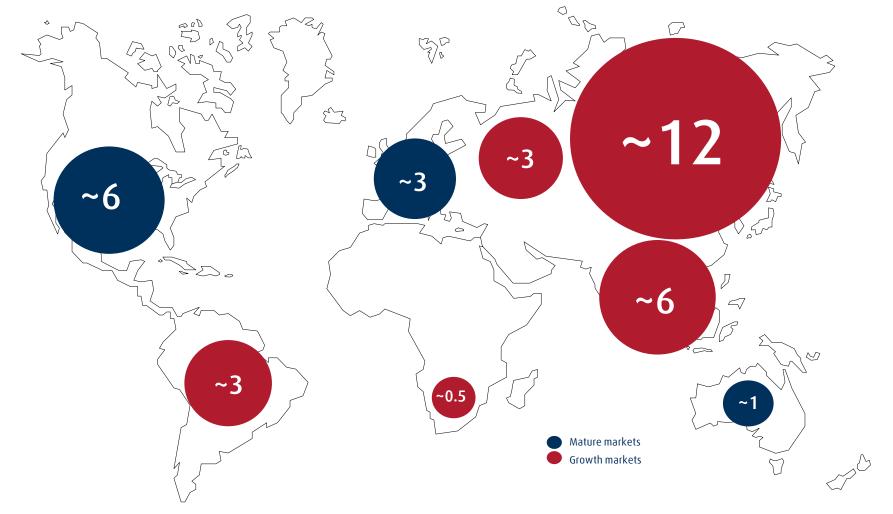
#### Gases Capex 2007 – 2010 in € bn



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

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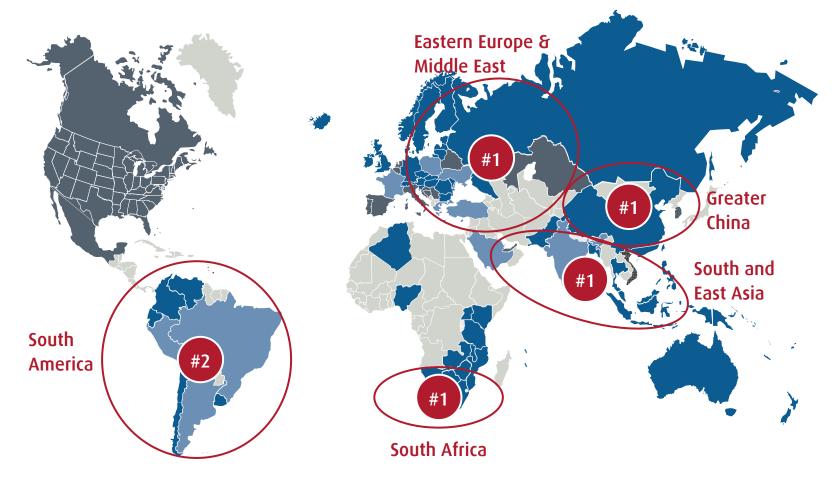


Source: Linde database, figures excl. Equipment, healthcare and major impact out of future growth markets of the energy/environment sector

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

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



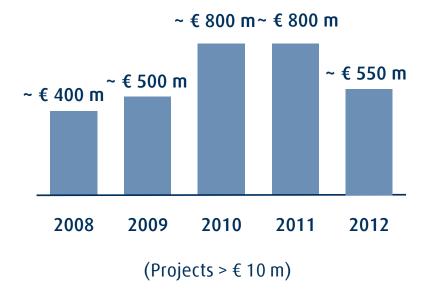
## **Gases Division, project pipeline** Good basis for sustainable growth

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- € 3 bn investments between 2008-2012 (thereof € 0.6 bn in JVs @ share)
- Project amount 2012 further increased to € 550 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 amount 12 months forward in € bn

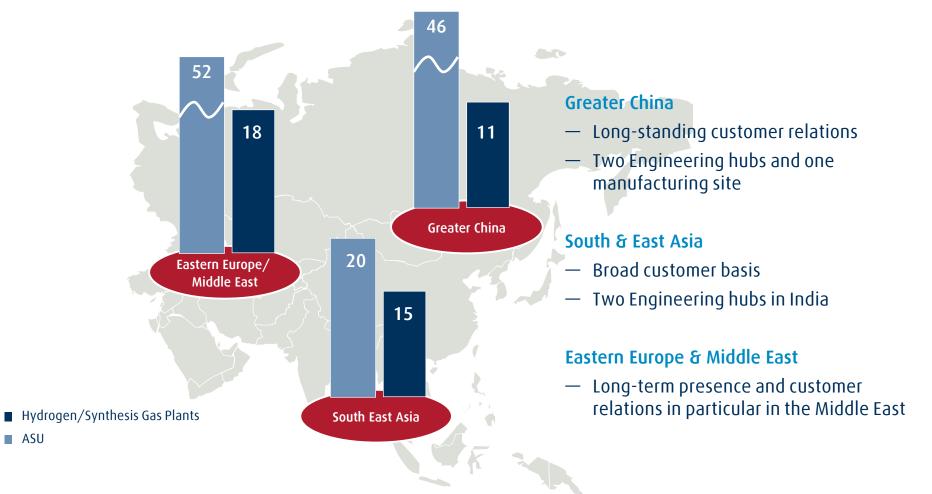




## Mega-trend Growth Markets Long-term Engineering footprint in Asia enables growth

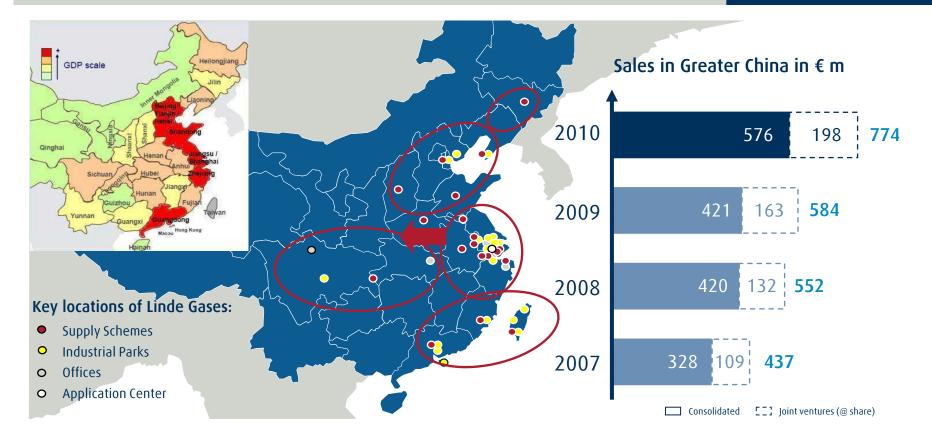


Number of ASU and hydrogen/synthesis gas plants sold by Engineering in Middle East and Asia to external customers since the year 2000\*



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





- First international gases company in China in the 1980s
- Over 4,000 employees / around 50 wholly-owned companies and JVs / around 150 operational plants
- Serving pillar industries chemical, oil & petrochemicals, metallurgy, manufacturing, electronics
- Industry-leading remote operations center, nation wide monitoring capabilities based in Shanghai

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

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

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- 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

\*Assuming 100% Build Own Operate

and excluding sale of equipment

- Clean Energy,
   e.g. Clean Coal
- Other, e.g.
   Photovoltaic,
   Coal-to-Gas

and plants

Existing growth markets Future growth markets € 80 -140 bn € 14 -19 bn € 5 -7 bn **CLEAN COAL CO2 HANDLING** H<sub>2</sub> FUELING EOR (N2 / NRU / CO2) LNG Other (e.g. Photovoltaic, Coal-to-Gas) 2015 2020 2030

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

- Annual market revenue in the respective year
- Pilot projects and small volumes

(Please find assumptions for estimates on page 52)

## 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

markets



Example: Bio-to-Liquids, US





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 natrual gas
- 2010 California Governor's
   Environmental and Economic
   Leadership Award

#### Example: CO2-Handling, North Holland North Sea South Holland Westland Delfgauw Wilgenlei

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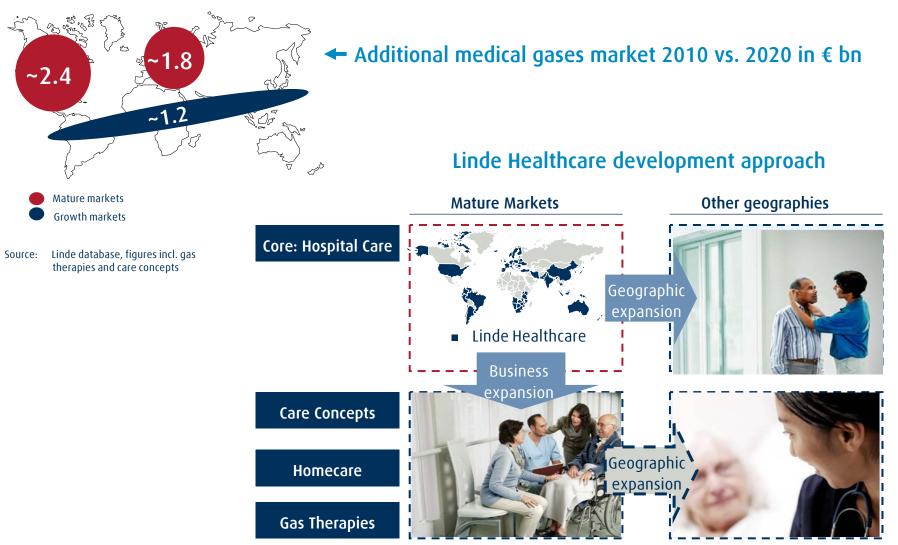
## Reduction of CO<sub>2</sub> Emission by 170k tons per annum:

- 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

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

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## Agenda

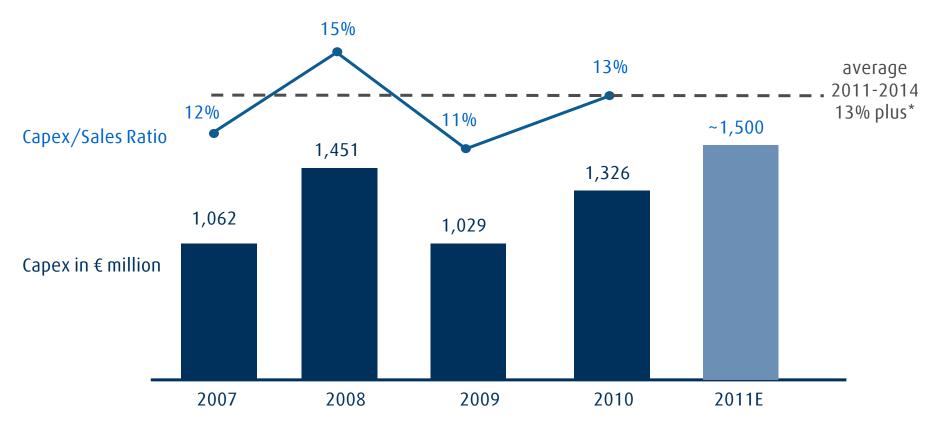
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#### Appendix

### **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>

### **Summary** Continuously Improving.

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#### New record levels achieved in 2010

Group sales and profit on record levels Group operating margin and Gases operating margin further improved Strong operating cash flow further improved Net debt reduced to € 5.5 bn (Net debt/EBITDA ratio of 1.9x) Proposed increase of dividend by 22.2% to € 2.20

## Competitive set-up for sustainable profitable growth Strong market position in Growth Markets Leveraging business synergies of Gases & Engineering Focus on Mega-trends Energy/Environment and Healthcare Based on sustainable cash flow generation and solid long-term financing Implementation of High Performance Organisation on track

Well prepared for realisation of growth potentials



## Agenda

# THE LINDE GROUP

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  - Growth Potential Mega-trends
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#### Appendix

## **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, Q4 2010** Key P&L items



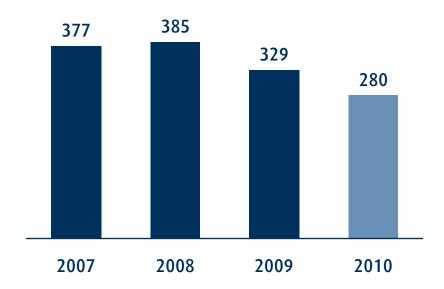
in € million	Q4/2009	Q4/2010	Δ in %
Sales	2,898	3,463	19.5
Operating Profit	644	780	21.1
Margin	22.2%	22.5%	+30bps
EBIT before PPA depreciation	381	509	
PPA depreciation	-72	-63	
EBIT	309	446	
Financial Results	-82	-50	
Taxes	-30	-80	
Net income – Part of shareholders Linde AG	174	307	
Net income adjusted	203	342	68.5
EPS in €	1.04	1.81	
EPS in € adjusted	1.20	2.01	67.5

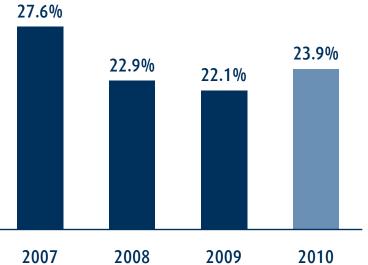
### **Group** Financial Result and Tax Rate



#### Financial Result (in € million)







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



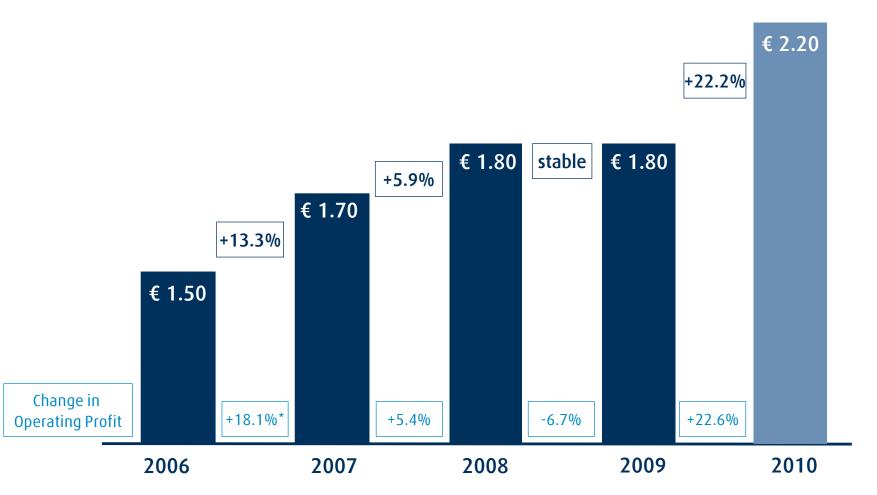
in € million	Q1/10	Q2/10	Q3/10	Q4/10	2010	2009
Operating Profit	641	755	749	780	2,925	2,385
Change in Working Capital	-98	-3	-25	210	84	160
Other changes	-146	-247	-93	-101	-587	-403
Operating Cash flow	397	505	631	889	2,422	2,142
Investments in tangibles / intangibles	-223	-280	-261	-428	-1,192	-1,104
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 $\mathcal{L}$ Free Cash Flow before Financing (2010 vs. 2009) THE LINDE GROUP in € million Investing CF **Operating CF** Free CF 2010 vs. 2009 2010 -191 397 206 (+58.5%) Q1 2009 -282 412 130 -245 260 2010 505 (+48.6%) Q2 -254 429 2009 175 631 2010 -227 404 Q3 +0.0% 583 -179 2009 404 487 -402 2010 889 Q4 +9.9% -275 718 2009 443 Total 2010 1,357 -1,065 2,422 (+17.8% Total 2009 2,142 1,152 -990

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

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#### **Consistent dividend policy**

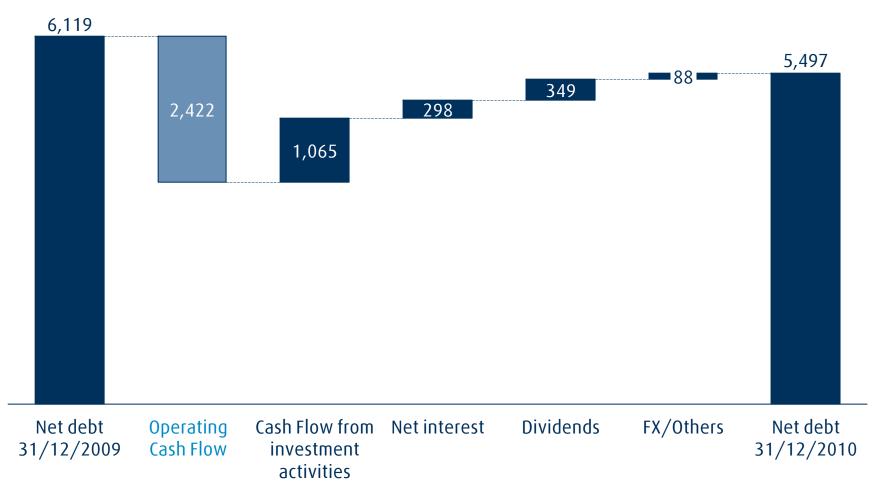


\* Comparable change: prior year figures including twelve months of BOC

## **Group, solid financial position** Net debt reduction of € 622 million



#### in € million



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

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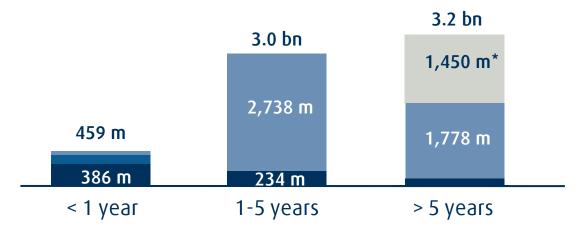
#### Well-spread and long-dated maturity profile

- 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

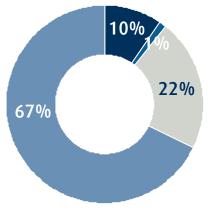
#### Balanced mix of various financing instruments

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

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









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

#### Group, solid financial position Liquidity reserve further strengthened

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3,200

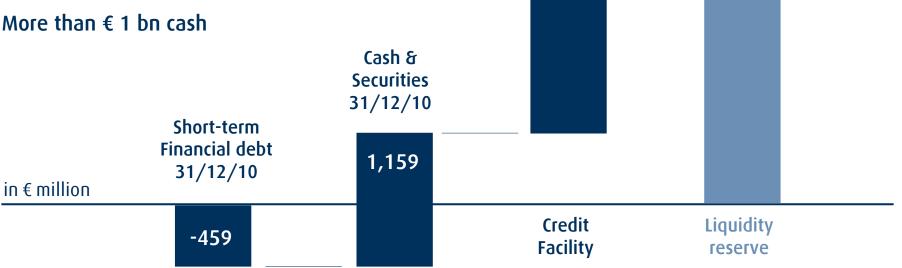
#### € 2.5 bn committed revolving credit facility maturing in 2015

- 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



— Fully undrawn

#### More than € 1 bn cash



2,500

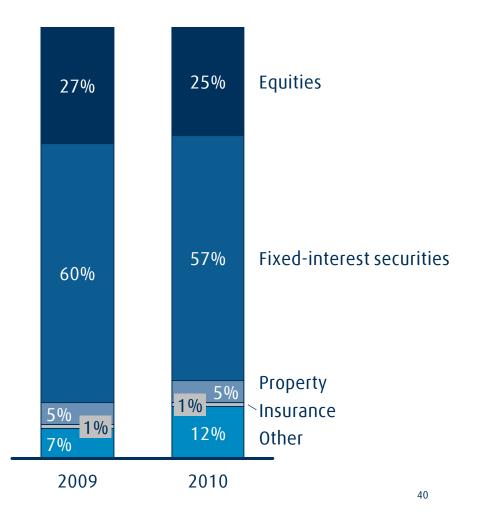
### **Group, Pensions** Key figures



#### Net obligation

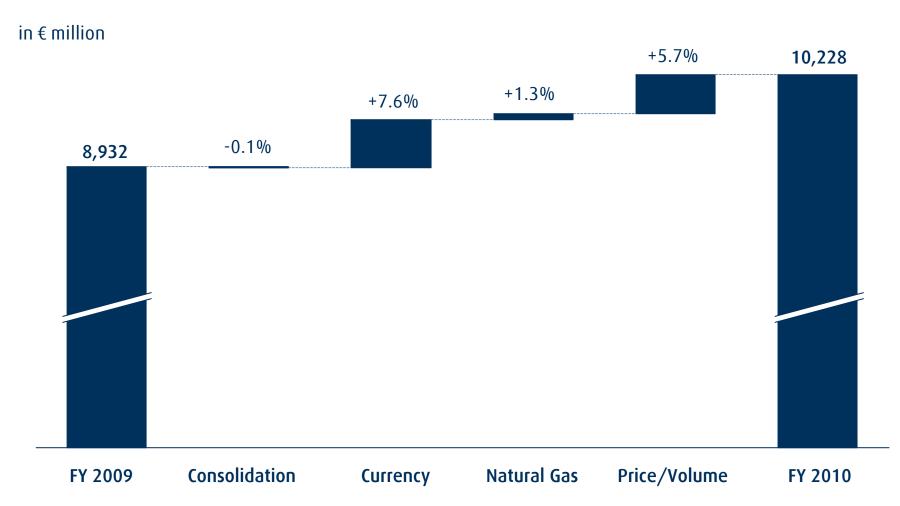
	DBO	Plan	Net
in € million		asset	obligation
01.01.2010	4,744	3,896	848
Service costs	93		93
Net financing	265	246	19
Actuarial gains/losses	-92	141	-233
Contributions/payments	-217	-9	-208
FX	209	200	9
Other	-31	-7	-24
31.12.2010	4,971	4,467	504

#### Pension plan assets portfolio structure



### **Gases Division, 2010 sales bridge** Comparable growth of 5.7%

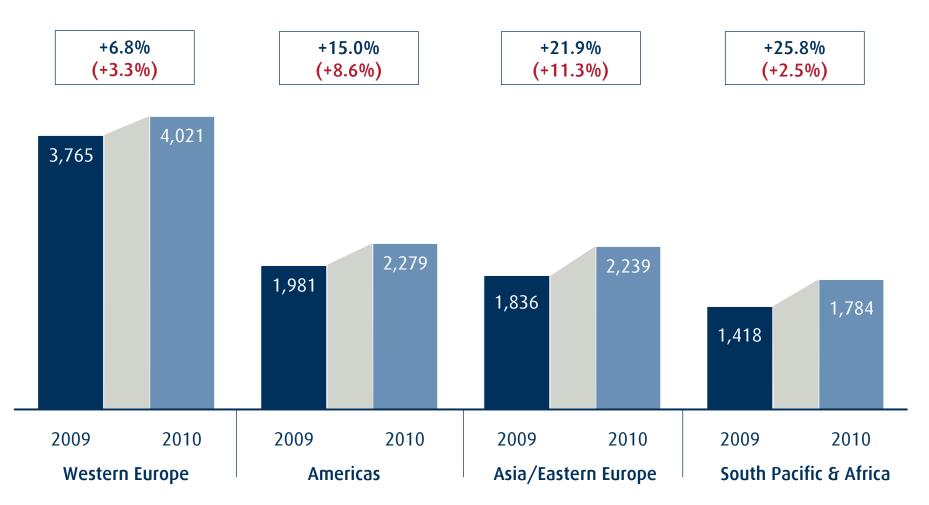




### **Gases Division, sales by operating segment** Growth markets show strongest momentum

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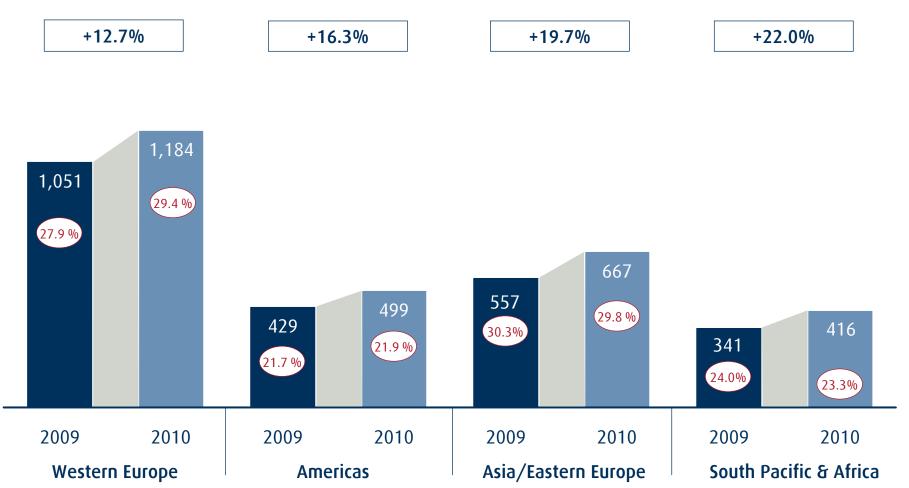
#### in € million (comparable\*)



## **Gases Division, operating profit by operating segment** Growth in all regions supported by HPO

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#### in € million ○ Operating margin



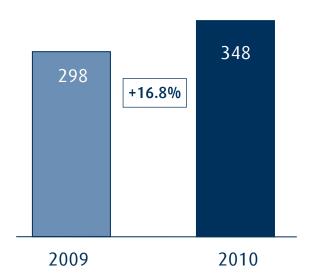
### Gases Division Joint ventures

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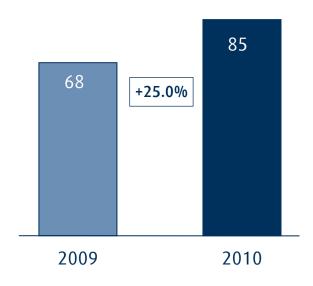
#### $\mathsf{in} \in \mathsf{million}$

#### Proportionate Sales

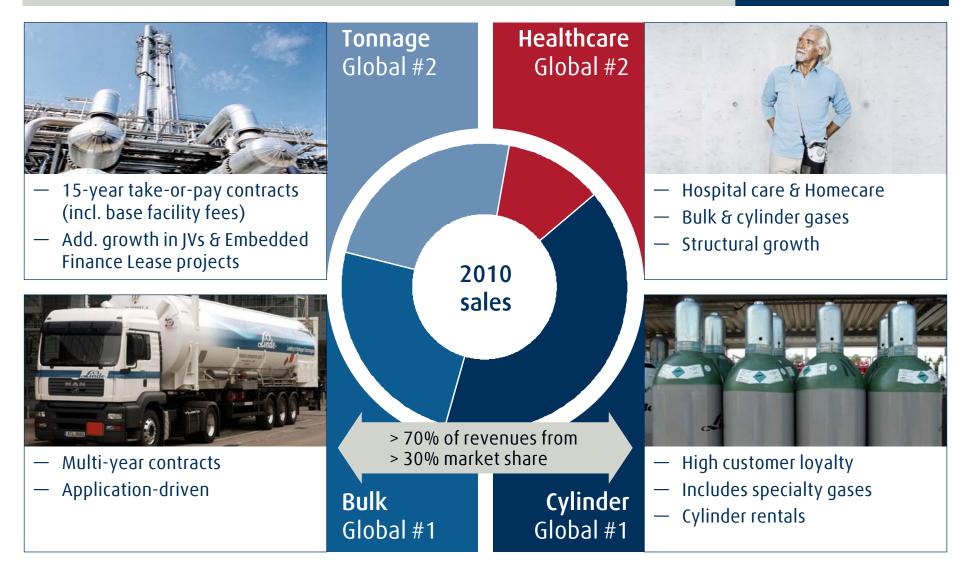
(not incl. in the Group top-line)



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



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



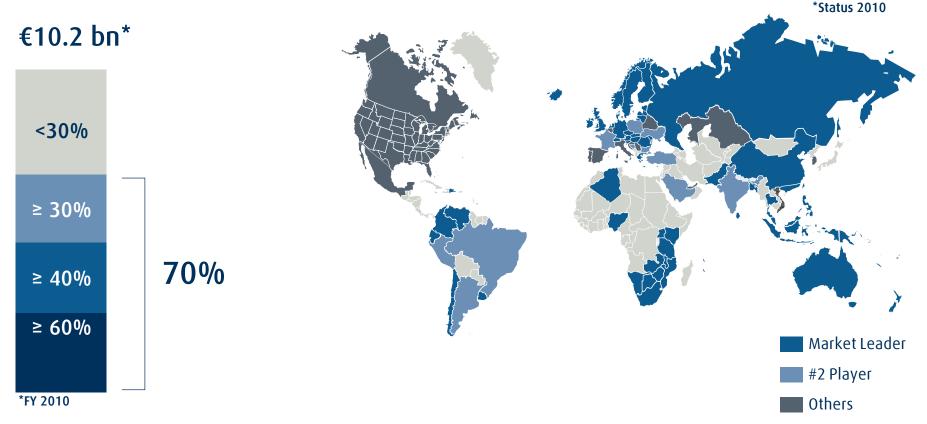
### **Gases Division, local business model** 70% of revenues come from a leading market position

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

Sales split by market shares

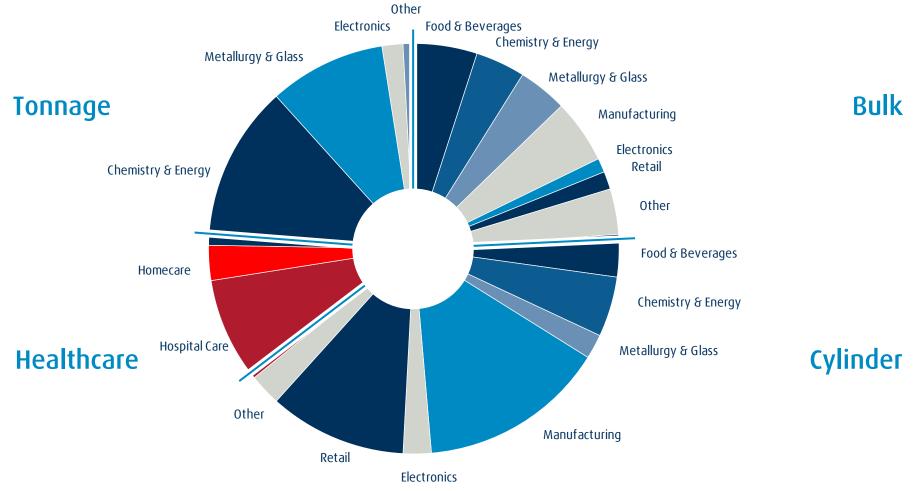
Market leader in 47 of the 75 major countries, #2 Player in another 15



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

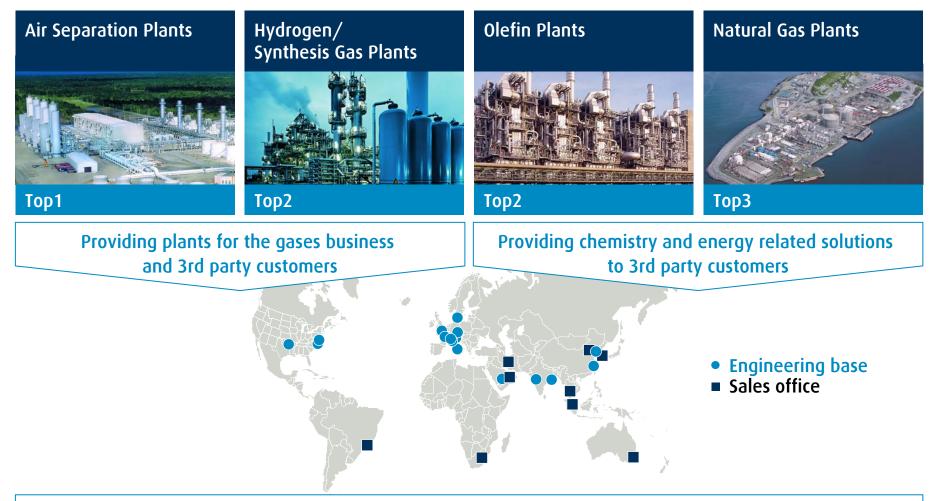
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#### 2010: Split of product areas by major end-customer groups



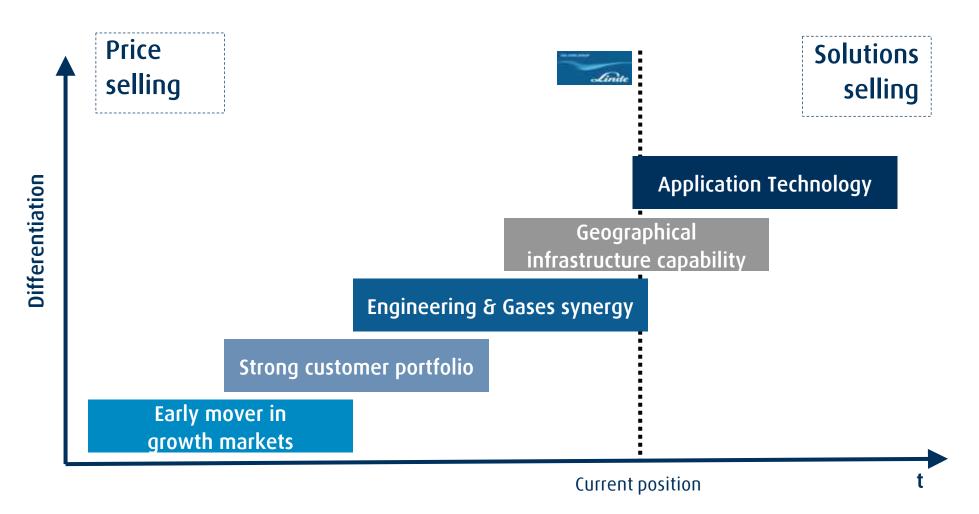
## **Engineering Division** Global set-up with leading market position in all segments

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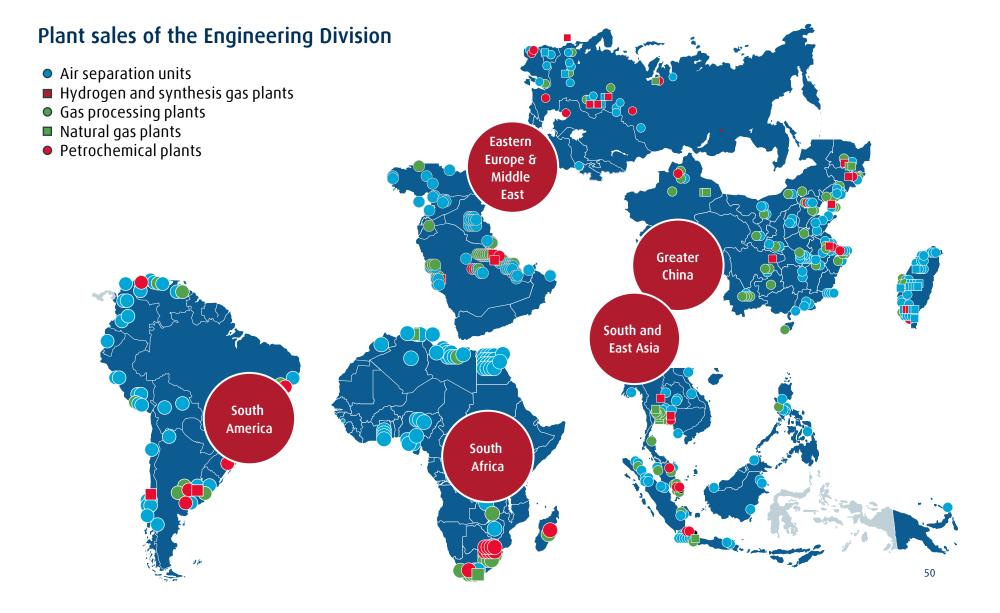


Supporting the energy/environmental mega-trend and leveraging customer relations for gas projects

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



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



## Clean Energy market estimation 2020 & 2030 top down

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#### General assumptions:

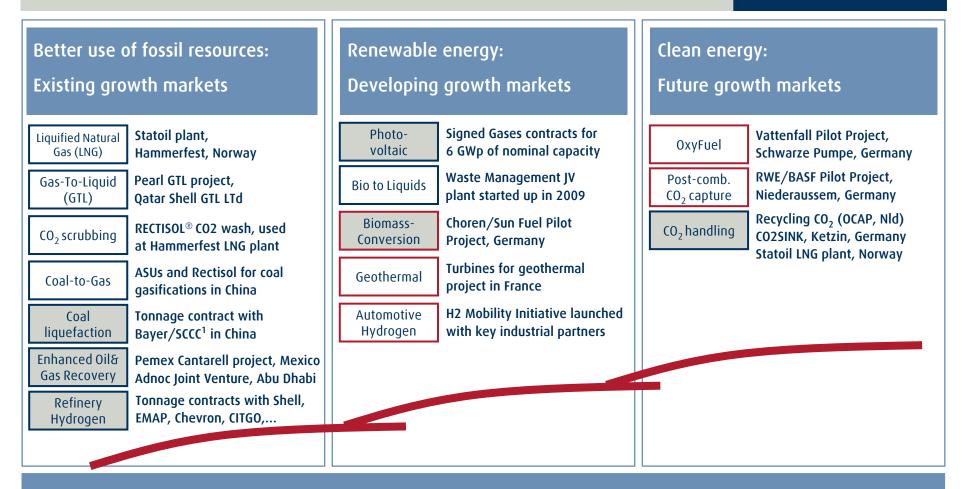
- Market numbers are directional only and w/o inflation or fx -
- Oil price development at 80-100 USD/bll -
- Outsourced gases market only (excl. captive market or equipment sales), -

	Market size in € bn			
	Assumptions for 2030	2015	2020	2030
LNG 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 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 & Clean Coal	<ul> <li>Triple-digit number of 1 GW Carbon Capture (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 (1.5 Gt/a handling fee CO2 at EUR 10-15/t)</li> </ul>	small	1	15-25
Hydrogen 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	1	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

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**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

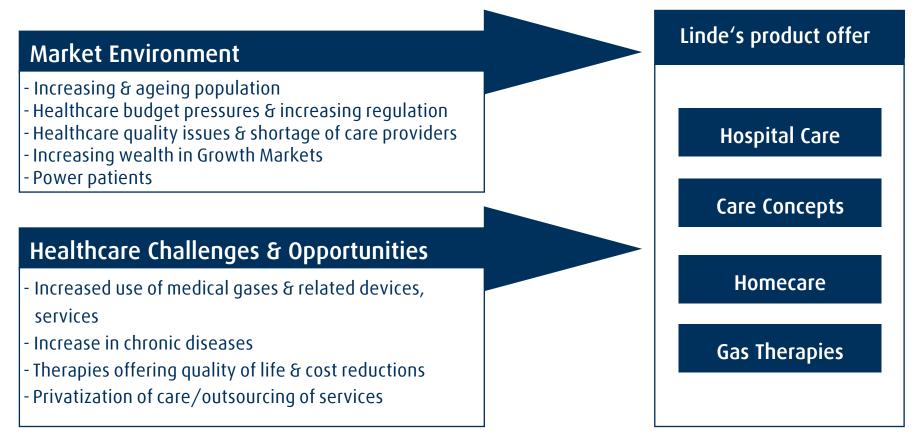
Business model Linde: 🔲 Engineering 🔲 Gas Supply

### Mega-trend Healthcare

#### High potential for medical gases and related services

#### Linde Global Business Unit Healthcare :

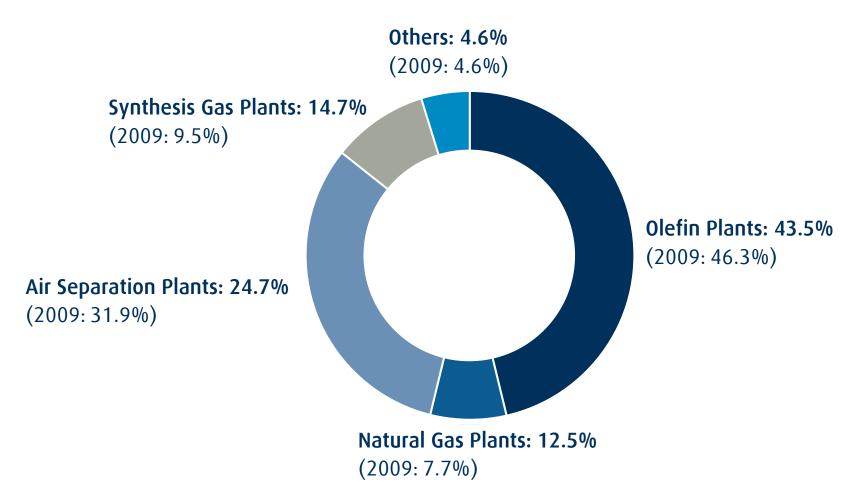
- Second largest global medical gas business
- Active in more than 50 countries with approx 3,000 employees

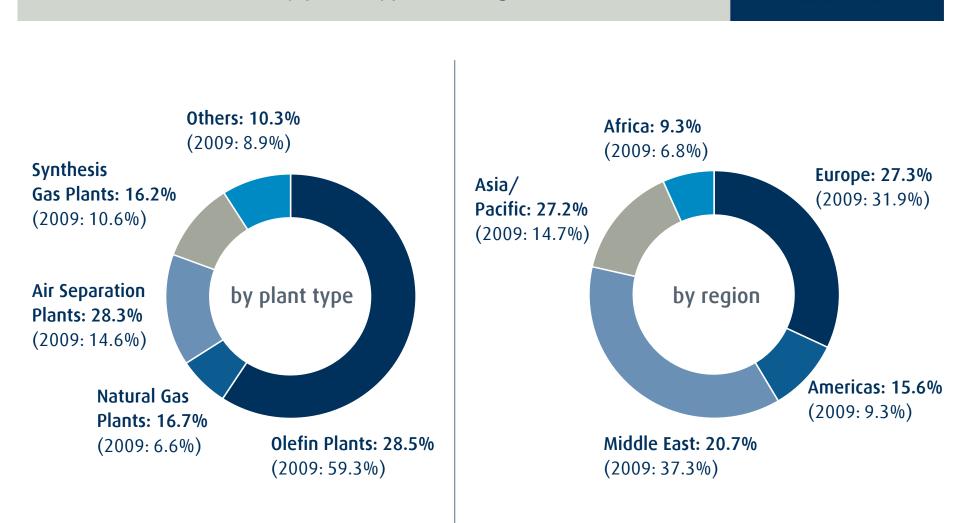


### **Engineering Division** Order backlog diversified and of high quality

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





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

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## **Group** Reconciliation of Capital Employed



	31.12.2009	31.12.2010			
in € million	Key Financial Figures	As reported	Non-GAAP adjustment	Key Financial Figures	Effects
Equity incl. minority interest	8,235	11,362	-790	10,572	PPA and disposal effects
Plus: net debt	6,119	5,497		5,497	
Plus: liabilities from financial services	28	49		49	
Less: receivables from financial services	645	392		392	
Balance of financial debt	5,502	5,154		5,154	
Net pension obligations	887	552		552	
Capital employed	14,624	17,068	-790	16,278	
Average Capital employed	14,066	16,322		15,451	
Return on Capital Employed (ROCE)	10.4 %	10.3 %		12.5 %	

### **Group** Reconciliation of EPS

	31.12.2009	31.12.2010			
in € million	Key Financial Figures	As reported	Non-GAAP adjustment	Key Financial Figures	Effects
EBIT before special items	1,460	1,679	254	1,933	РРА
Taxes on income	-297	-335	-92	-427	deferred taxes on PPA
Earnings after taxes and minority interest	772	1,005	162	1,167	
EPS (in €)	4.58	5.94		6.89	
Weighted average no. of shares (in million)	168,6	169,3		169,3	

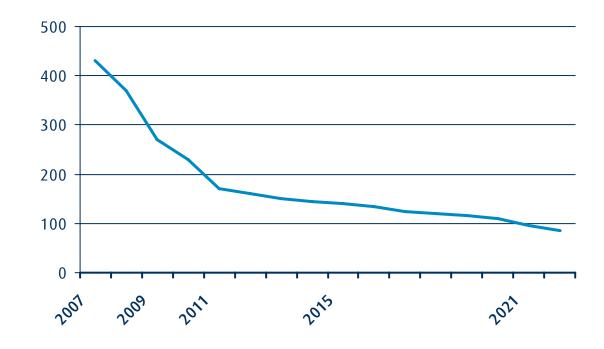
### **Group, Purchase Price Allocation** Confirmation of expected Depreciation & Amortisation

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

## Expected range

2011	> 200 - 250
2012	> 175 – 225
•••	
2022	< 100



## Group, Definition of financial key figures

Operating 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 ROCE	Return	Operating profit - depreciation / amortisation excl. depreciation/amortization from purchase price allocation
	Average Capital Employed	equity (incl. minorities) + financial debt + liabilities from financial services + net pension obligations - cash and cash equivalents - receivables from financial services
adjusted EPS	Return	earnings after tax and minority interests + depreciation/amortization from purchase price allocation +/- special items
	Shares	average outstanding shares

#### **Investor Relations**

# THE LINDE GROUP

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#### **Financial Calendar**

- Interim Report January to March: 4 May 2011
- Annual General Meeting: 12 May 2011
- Interim Report January to June: 29 July 2011
- Interim Report January to September: 28 October 2011