

Goldman Sachs European Chemicals 2020 Vision Conference **Profitable Growth.** 

Lead**Ing.** 

THE LINDE GROUP

#### 19 June 2012

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



#### Highlights

Group sales increased by 5.4% to € 3,505 m Group operating profit\* grew by 6.2% to € 808 m Group margin increased by 20 basis points to 23.1% EPS of € 1.68 (3M 2011: € 1.67\*\*) and adjusted EPS of € 1.89 (3M 2011: € 1.88\*\*)

#### **Operations**

Solid growth in all markets

Operating margin of the Gases Division at 27.5% (+20 bp)

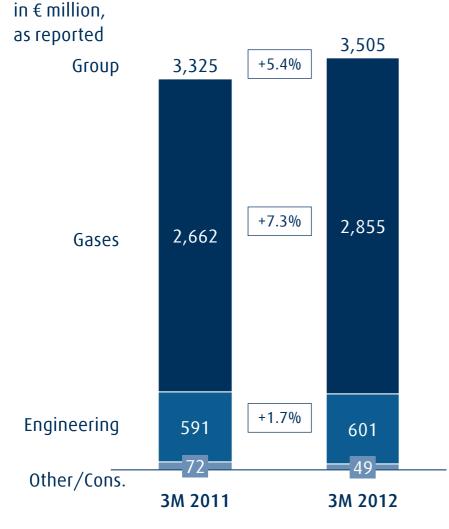
#### 2012 Outlook reinforced

Growth in sales and operating profit vs. record year 2011 HPO: € 650-800 m of gross cost savings in 2009-2012

<sup>\*</sup>Operating profit defined as EBITDA incl. share of net income from associates and joint ventures \*\*Including positive one-time effects

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

# THE LINDE GROUP



#### **Gases Division**

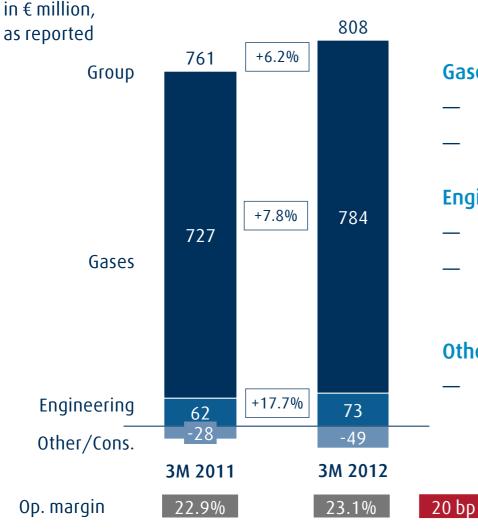
- Continued growth in all regions with comparable growth\* of 4.1%
- Growth in all product areas led by Bulk

#### **Engineering Division**

- Strong order intake with more than half of the orders from Asia and Middle East
- Order backlog increased

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

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#### **Gases Division**

- Operating profit\* further increased
- Operating margin up by 20 bp to 27.5%

#### **Engineering Division**

- Operating margin of 12.1% on high level
- Margin development driven by successful execution of individual projects

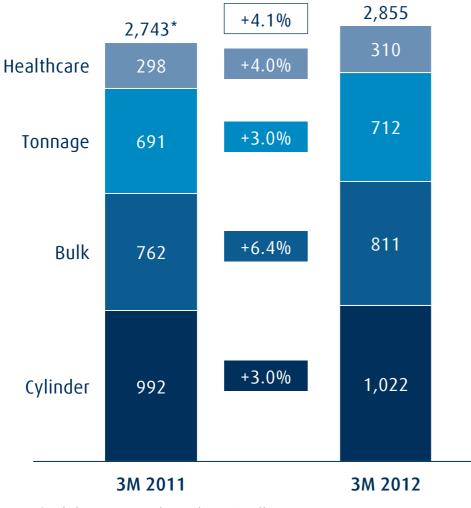
#### Other/Cons

 € 16 m positive one-time effect from changes made to the UK pension plan in 3M 2011

## **Gases Division, sales by product areas** Overall strong growth of joint ventures



in € million, comparable\* (consolidated)



#### **Gases Division**

Including joint ventures\*\* comparable growth of the Gases Division 4.8%

#### Tonnage

Including joint ventures\*\* comparable growth of Tonnage 5.7%

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





\*excluding currency and natural gas price effect

# **Engineering Division, key figures** Strong performance



- Tonnage business supports high order intake
- Order backlog on solid level
- Strong operating profit\* margin

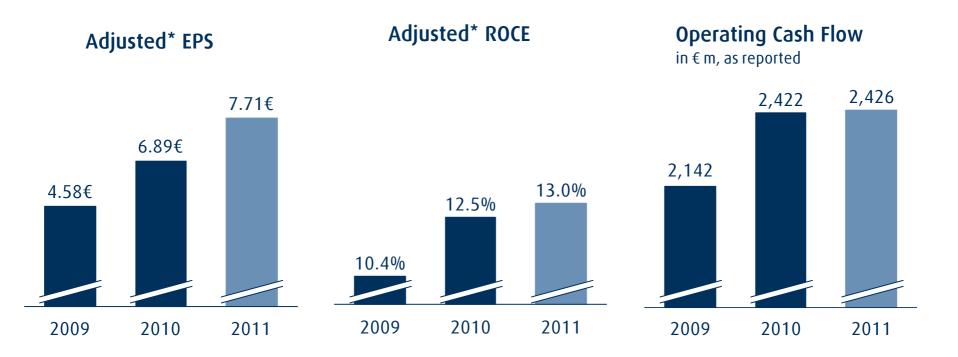


\*EBITDA incl. share of net income from associates and joint ventures

### **Group** Financial key indicators again on record levels

#### Profitable growth for our shareholders

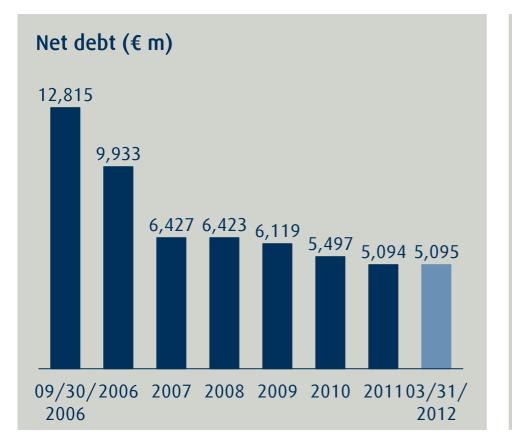
- adjusted EPS up by 11.9%
- adjusted ROCE further improved by 50 bp



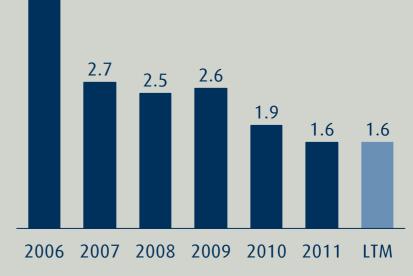


# Group, solid financial position Sound financial strategy





# Net debt/EBITDA 4.8



#### **Credit Ratings**

- Moody's:

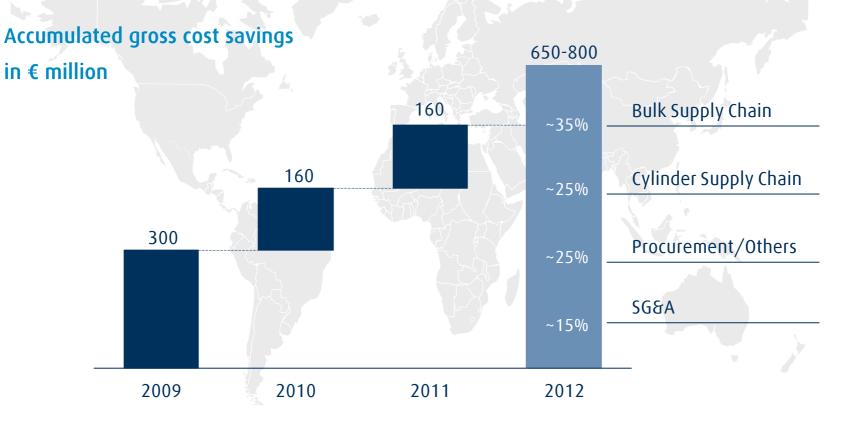
Standard&Poor's: A/A-1 with stable outlook (05/25/2012\*) A3/P-2 with stable outlook  $(05/16/2012^*)$ 

\* Date of latest rating report

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

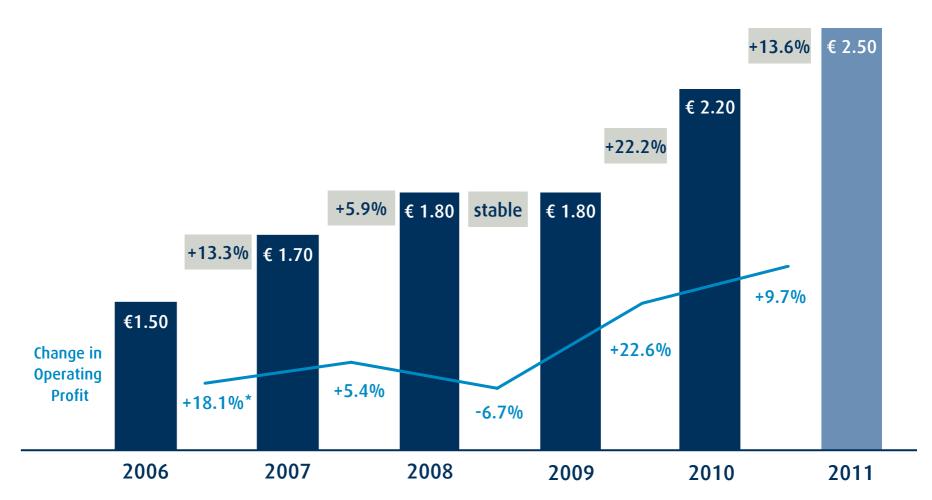


- HPO is fully on track with savings additional savings of ~ € 160 m in 2011
- Initiatives have been launched and rolled out in all relevant areas
- Contribution expected also in 2013 ff.
- Gross cost savings increased to € 620 m



# **Group, dividends** Dividend increased by 13.6% to € 2.50





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

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





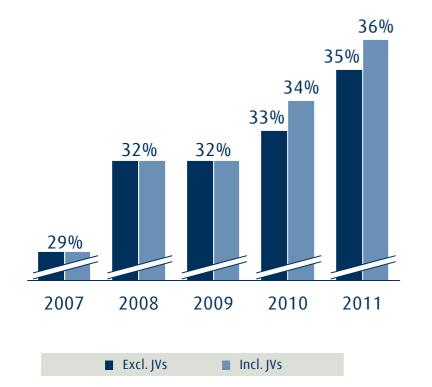
Leveraging Gases & Engineering business synergies

# Mega-trend Growth Markets Strong investments in future growth



Growth Markets exposure further increased

Growth Market sales (% of Gases sales)



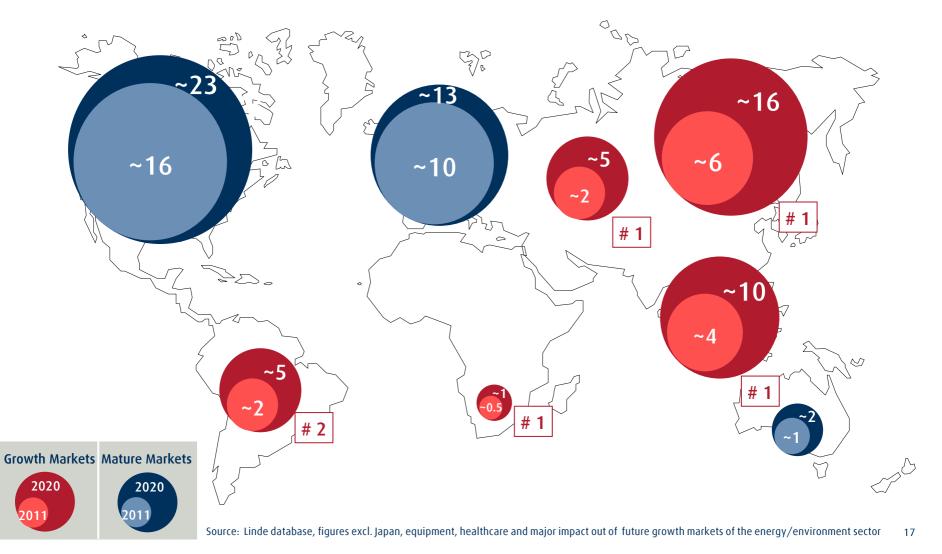
Majority of Capex 2011 invested in Growth Markets Gases Capex 2007 – 2011 in € bn



#### Mega-trend Growth Markets Industrial gases market 2011 vs. 2020 in € bn



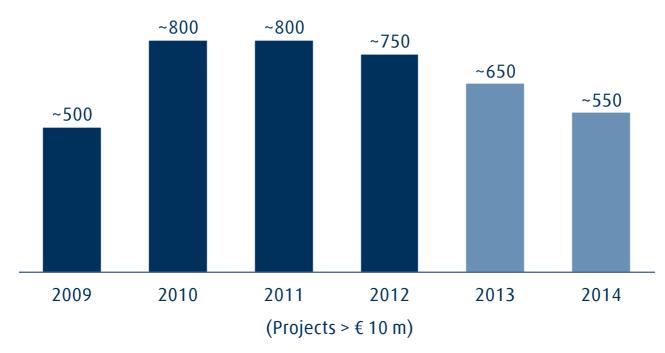
#### Market leader in 4 out of 5 Growth Markets



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



- $\in$  4.1 bn investments between 2009-2013 (thereof  $\in$  0.6 bn in JVs @ share)
- Project amount for 2012 and 2013 further increased by around € 200 m
- 2014 project amount already at around € 550 m
- Around 70% of total project-Capex allocated to Growth Markets
- Amount of project opportunities remains with € 4.3 bn on a high level



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

## **Mega-trend Growth Markets** Comprehensive strategy to capture growth potential in Asia

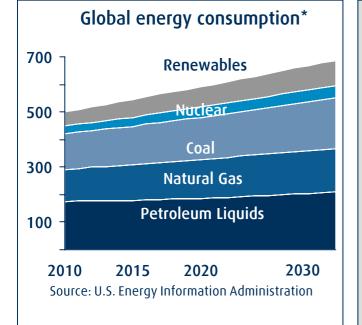




#### Mega-trend Energy/Environment LeadIng joint capabilities & access to Energy/Environment sector THE LINDE GROUP **Engineering Division Gases Division Mega-projects** Proven technology and project execution Proven long-term operations track record **Technology Know-How** LNG (Merchant/Floating), EOR/EGR, Coal-to-X, Gas-to-X, Bio-to-X, Geothermal **Energy:** OxyFuel, Post-combustion CO<sub>2</sub>-capture and handling, H<sub>2</sub>-fueling **Environment:** Efficiency & Applications: Higher energy efficiency of plants, REBOX® oxy-fuel, WASTOX® Long-term Customer Relations **Competitive Products and Services Plant Sales Commodity Customers** for with focus on price/energy efficiency (TCO) and reliability captive customer

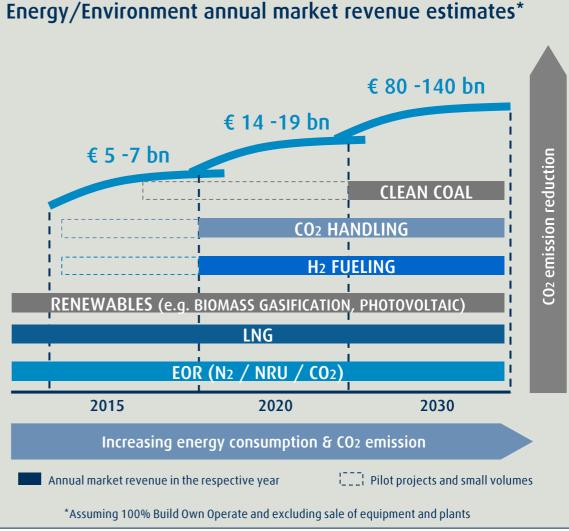
## Mega-trend Energy/Environment Importance of new technologies & industrial gases applications





- Fossil resources remain dominant energy source
- Fossil resources becoming scarce
- CO<sub>2</sub>-emissions steadily increasing
- Importance of renewable energy increasing but still limited reach

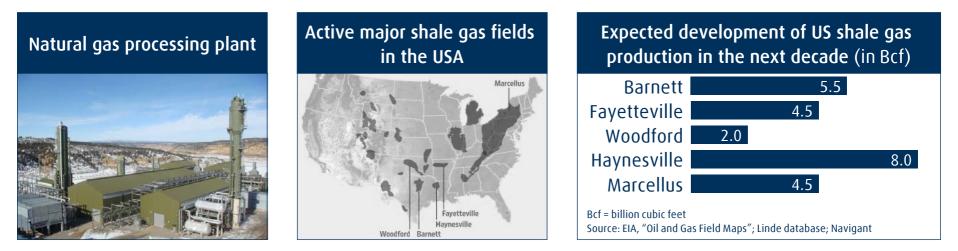
\*in quadrillion British Thermal Units (equals around 10<sup>27</sup> Joules)



(Please find assumptions for estimates on page 54)

# Mega-trend Energy/Environment Opportunities in shale gas business: Example US





#### Engineering

- Total order intake since 2010 > € 400 m
- Opportunities within the field of shale gas:
  - Natural gas processing plants: driven by the necessity of gas treatment for pipeline and bulk use
  - Small-mid-scale LNG plants: driven by increasing demand for merchant LNG
  - Ethane cracker: feasible for gas fields without petrochemical clusters

#### Gases

- Potential leverage of our operation experience into the area of shale gas
- Based on shale gas new chemical clusters develop with the need for industrial gases supply

## Mega-trend Healthcare Market environment and drivers

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#### Market environment

Increasing and ageing population

Increasing wealth in Growth Markets

Healthcare budget pressure and regulation

#### **Drivers of development**

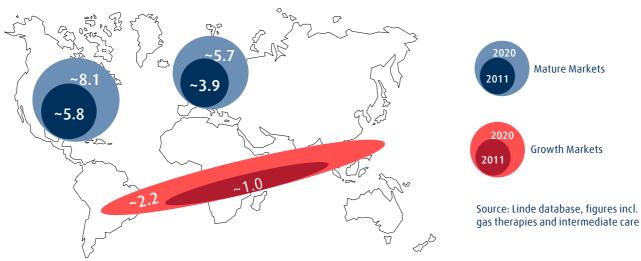
New and innovative pharmaceutical gases and services

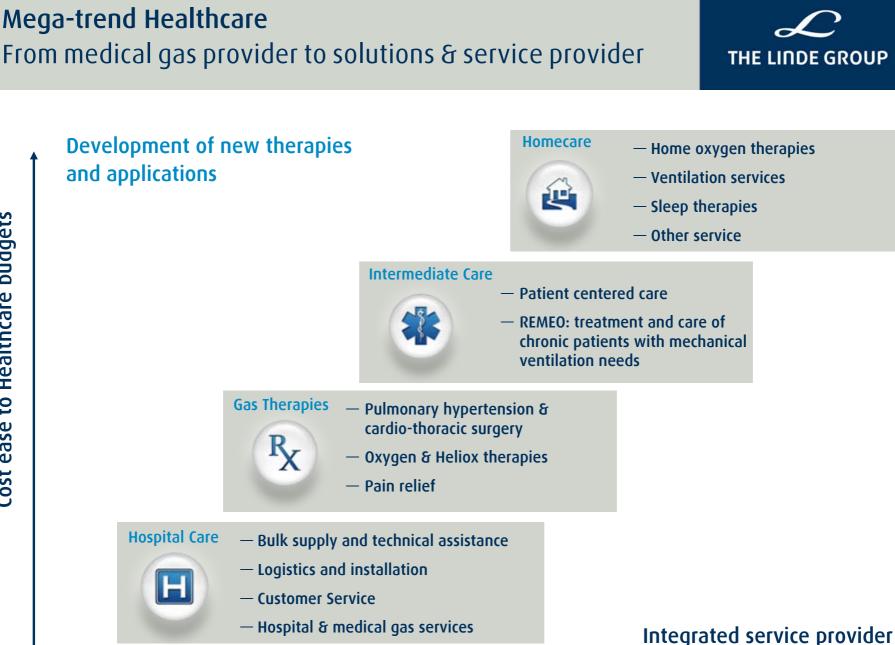
#### Quality and optimum care for patients

Value creation by cost-effective and reliable products and services

**Regional expansion** 

#### Relevant Healthcare markets 2011 vs. 2020 in € bn





#### Mega-trend Healthcare Homecare: growth through innovation and regional expansion THE LINDE GROUP **EMEA AMERICAS** Linde Homecare sales ASIA/ 2011 78% 18% by operating segments PACIFIC **Ventilation Services** Home Oxygen Therapy Sleep Therapy Chronic respiratory diseases, **Obstructive Sleep Apnea**, Advanced respiratory diseases patients need mechanical patients need oxygen patients need positive air (COPD, Asthma) pressure during sleep ventilation support Products: LOX, GOX and **Products:** Mechanical **Products:** Positive Airway

Synergies: sales & marketing, logistics, integrated patient management, care center, adherence programme, technology development

Pressure Devices, Masks

Concentrators

Ventilators, Equipment

# Agenda

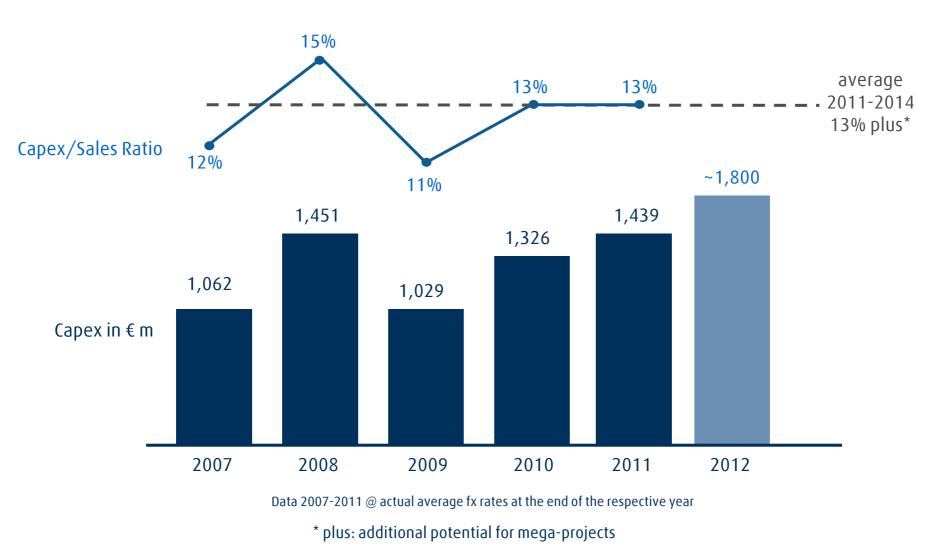


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### Gases, Capex Development Capex Sales Ratio 2007-2011





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## **Outlook - confirmed** Profitable Growth.



2012	Group	<ul> <li>Growth in sales and operating profit vs. 2011</li> <li>Confirmation of HPO-programme: € 650-800 m of gross cost savings in 2009-2012</li> </ul>
	Gases	<ul> <li>— Sales increase vs. 2011</li> <li>— Continuous improvement of productivity</li> </ul>
	Engineering	<ul> <li>Sales at the same level as in 2011</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>

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## **Group, Q1 2012** Key P&L items



in € million	Q1/2011	Q1/2012	Δ in %
Sales	3,325	3,505	5.4
Operating Profit	761*	808	6.2
Margin	22.9%	23.1%	+20 bp
EBIT before PPA depreciation	507	537	5.9
PPA depreciation	-61	-61	0.0
EBIT	446	476	6.7
Financial Results	-49**	-92	-87.8
Taxes	-94	-76	-19.1
Net income	303	308	1.7
Net income – Part of shareholders Linde AG	284	287	1.1
EPS in €	1.67	1.68	0.6
Adjusted EPS in €	1.88	1.89	0.7

\*Including € 16 m one-time effect from changes to the UK pension plan \*\*Includes positive one-time effect of € 30 m (repayment of BOC Edwards vendor loan)

# **Group, FY 2011** Key P&L items



in € million	2010	2011	Δ in %
Sales	12,868	13,787	7.1
Operating Profit	2,925	3,210	9.7
Margin	22.7%	23.3%	+60 bp
EBIT before PPA depreciation	1,933	2,152	11.3
PPA depreciation	-254	-242	-5.0
EBIT	1,679	1,910	13.8
Financial Results	-280	-291	3.9
Taxes	-335	-375	11.9
Net income	1,064	1,244	16.9
Net income – Part of shareholders Linde AG	1,005	1,174	16.8
EPS in €	5.94	6.88	15.8
Adjusted EPS in €	6.89	7.71	11.9



EMEA (€ m)	Q1 2011	Q2 2011	Q3 2011	Q4 2011	FY 2011
Sales	1,393	1,431	1,434	1,414	5,672
Operating profit*	395	412	408	419	1,634
Operating margin	28.4%	28.8%	28.5%	29.6%	28.8%
Asia/Pacific (€ m)	Q1 2011	Q2 2011	Q3 2011	Q4 2011	FY 2011
Sales	707	766	810	793	3,076
Operating profit*	196	210	228	238	872
Operating margin	27.7%	27.4%	28.1%	30.0%	28.3%
Americas (€ m)	Q1 2011	Q2 2011	Q3 2011	Q4 2011	FY 2011
Sales	580	593	605	606	2,384
Operating profit*	136	134	135	130	535
Operating margin	23.4%	22.6%	22.3%	21.5%	22.4%

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

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



Financial Result (in € m) **Tax Rate** 23.9% 23.2% 22.9% 22.1% 

# **Group, Q1 2012** Cash Flow Statement



in € million	Q1/2011	Q1/2012
Operating profit	761	808
Change in Working Capital	-180	-318
Other changes	-141	-105
Operating Cash Flow	440*	385**
Investments in tangibles/intangibles	-237	-321
Acquisitions/Financial investments	-13	-3
Other	43	43
Investment Cash Flow	-207	-281
Free Cash Flow before Financing	233	104
Interests and swaps	-45	-68
Dividends and other changes	-2	-33
Net debt increase (+)/decrease (-)	-186	-3

\* Includes positive one-off effect of € 59 m (repayment of BOC Edwards vendor loan) \*\* A lower level of advance payments received from customers had an adverse impact

# **Group, FY 2011** Cash Flow Statement



in € million	Q1 11	Q2 11	Q3 11*	Q4 11*	2011*	2010
Operating profit	761	798	804	847	3,210	2,925
Change in Working Capital	-180	6	60	39	-75	84
Other changes	-141	-267	-142	-159	-709	-587
Operating Cash Flow	440	537	722	727	2,426	2,422
Investments in tangibles/intangibles	-237	-310	-346	-452	-1,345	-1,192
Acquisitions/Financial investments	-13	-1	-41	-23	-78	-68
Other	43	33	40	53	169	195
Investment Cash Flow	-207	-278	-347	-422	-1,254	-1,065
Free Cash Flow before Financing	233	259	375	305	1,172	1,357
Interests and swaps	-45	-114	-123	-56	-338	-298
Dividends and other changes	-2	-385	-7	-11	-405	-280
Net debt increase (+)/decrease (-)	-186	240	-245	-238	-429	-779

\* excluding investments in securities of  $\in$  600 m in Q3 and  $\in$  1,052 m in Q4

# **Group, solid financial position** Early refinancing of existing financial debt

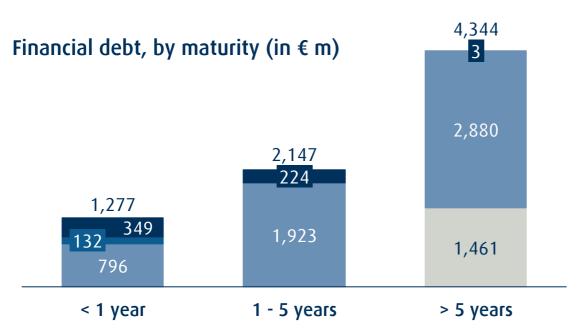


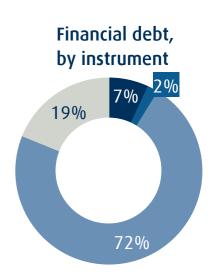
#### Continuous efforts to extend the Group's maturity profile

- Issuance of € 500 m 7 years senior notes in June 2012
- More than 80% of total financial debt is due beyond 2012
- Approx. 56% of total financial debt has a longer maturity than 5 years

#### Balanced mix of various financing instruments

- Strong focus on long-term bond financing
- Strategic funding in EUR, GBP, USD and AUD





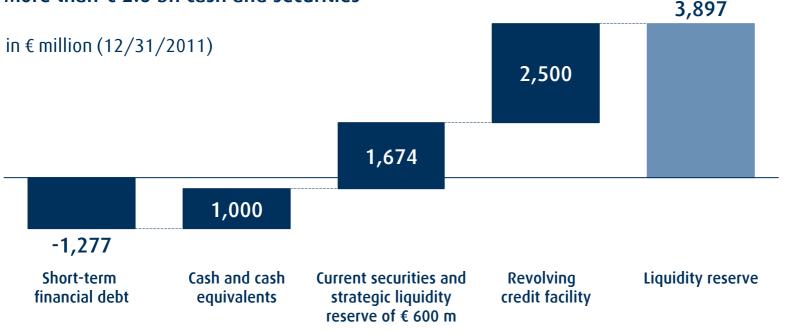
- Other Bonds
- Subordinated Bonds (\*callable in 2013/2016)
- Commercial Paper
- Bank Loans

Figures as of March 2012

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

- Arranged in May 2010 with 25 national and international banks
- Maturing in 2015
- No financial covenants
- Fully undrawn

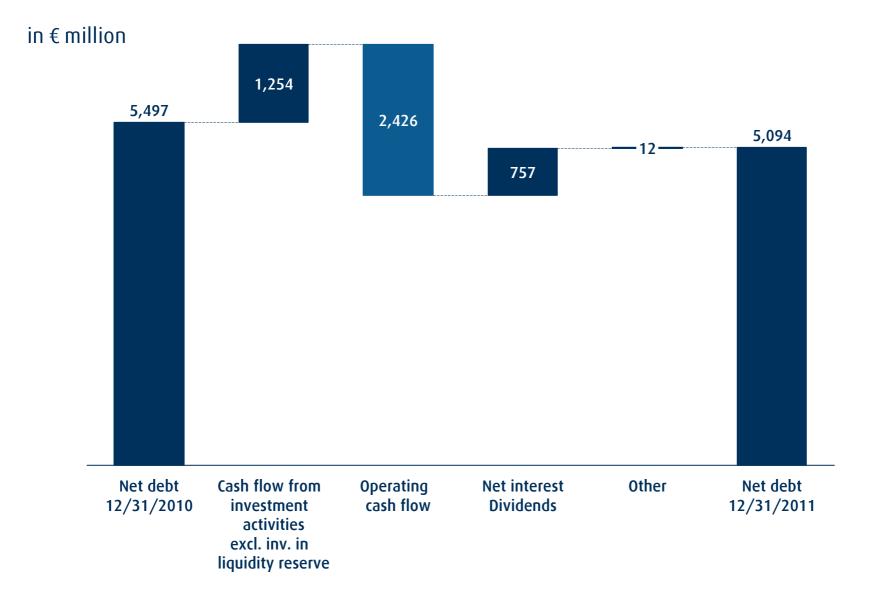
#### More than € 2.6 bn cash and securities





#### **Group, solid financial position** Net debt reduction of € 403 million





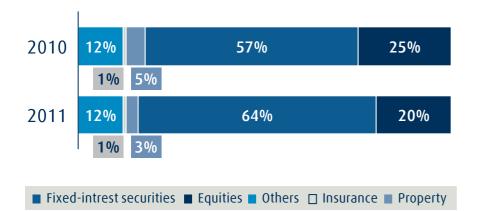
#### **Group, Pensions** Performance and key figures 2011



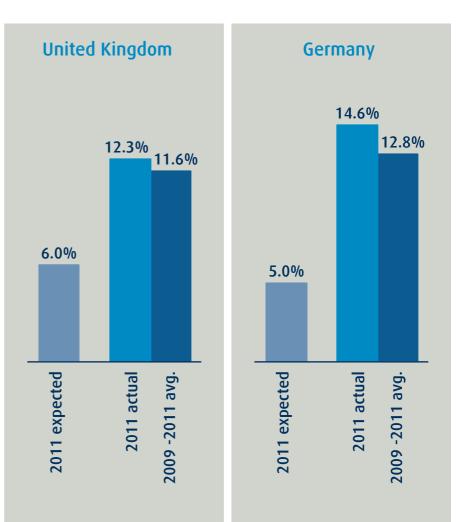
#### Net obligation

in € million	DBO	Plan asset	Net obligation
01/01/2011	4,971	4,467	504
Service costs	88		88
Net financing	253	254	-1
Actuarial losses/gains	335	153	182
Contributions/payments	-213	-13	-200
Other	-33	-19	-14
12/31/2011	5,401	4,842	559

#### Pension plan assets portfolio structure



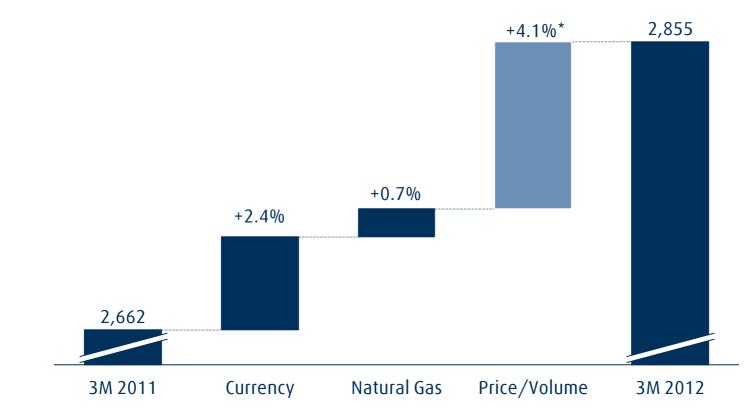
#### Performance of major pension plans



#### Gases Division, sales bridge Q1 2012 sales increased by 4.1% on comparable basis



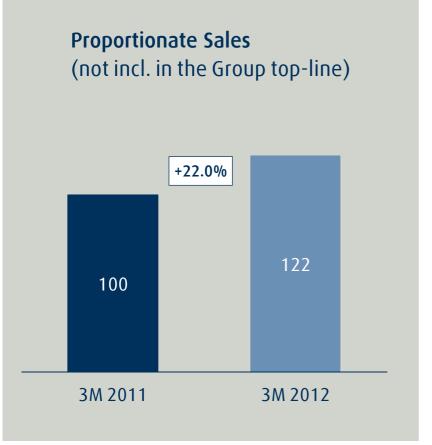
in € million



#### Gases Division Joint ventures



#### in € million

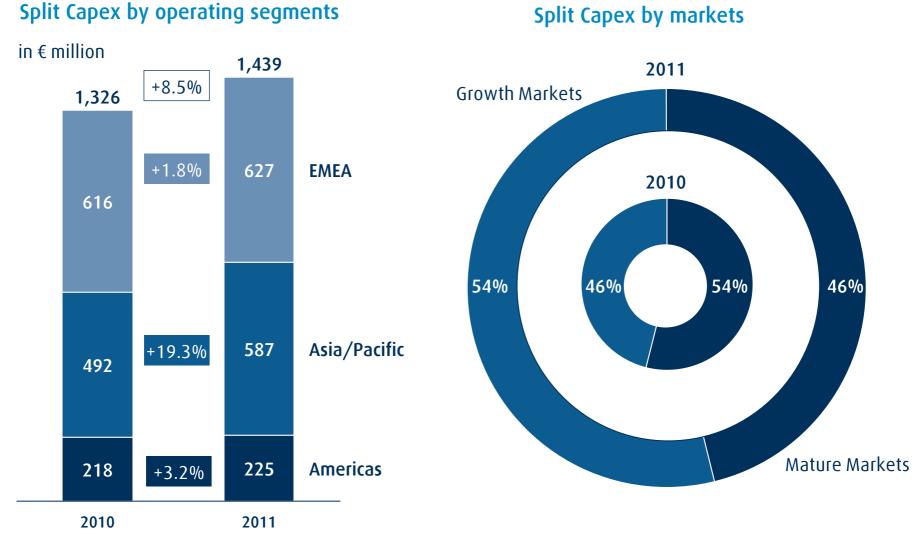


#### Share of Net Income (contribution to operating profit)



# Gases Division, Split of Capex Growth Markets Capex increased to above 50 percent

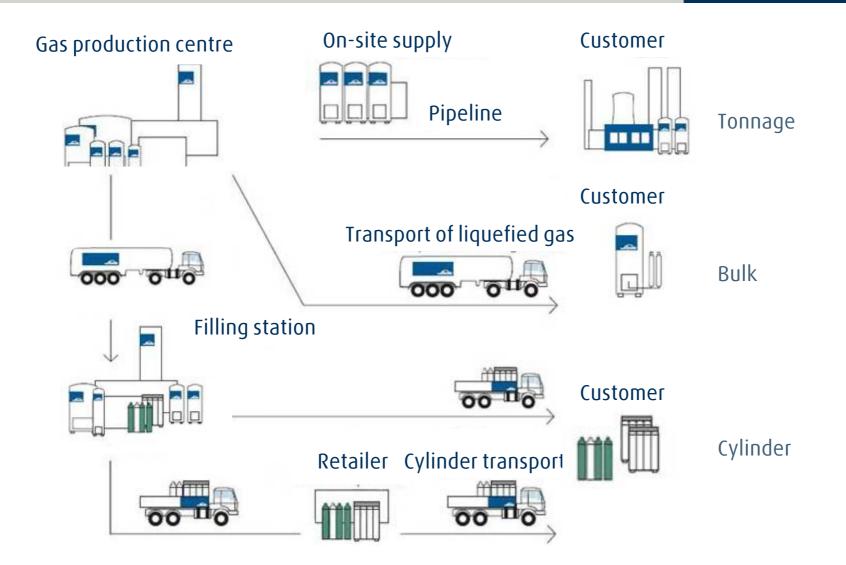




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#### **Gases Division** From source to customer





# Gases Division Various distribution mix served from one product source

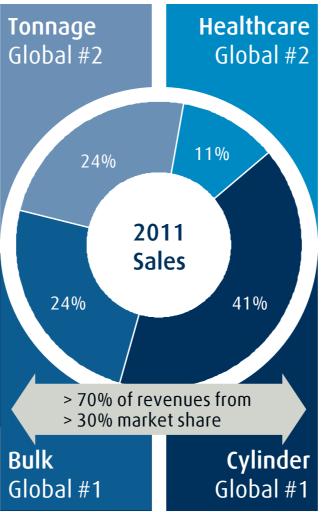




- 15-year take-or-pay contracts (incl. base facility fees)
- Add. growth in JVs & Embedded Finance Lease projects



- Multi-year contracts
- Application-driven





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

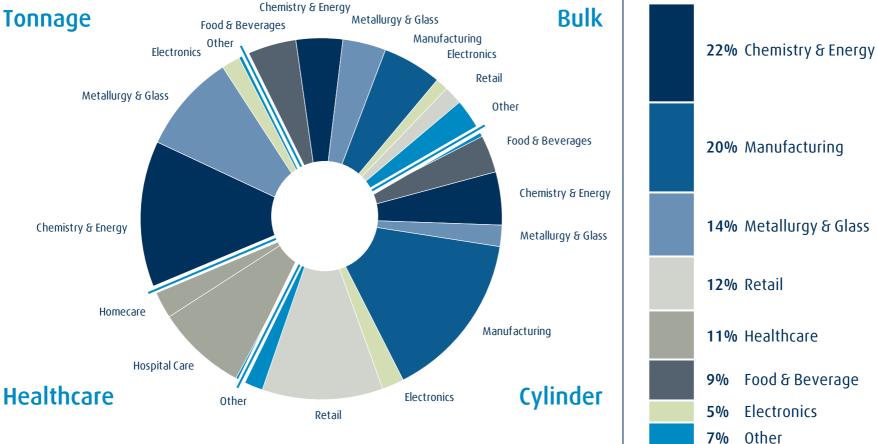


- High customer loyalty
- Includes specialty gases
- Cylinder rentals

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

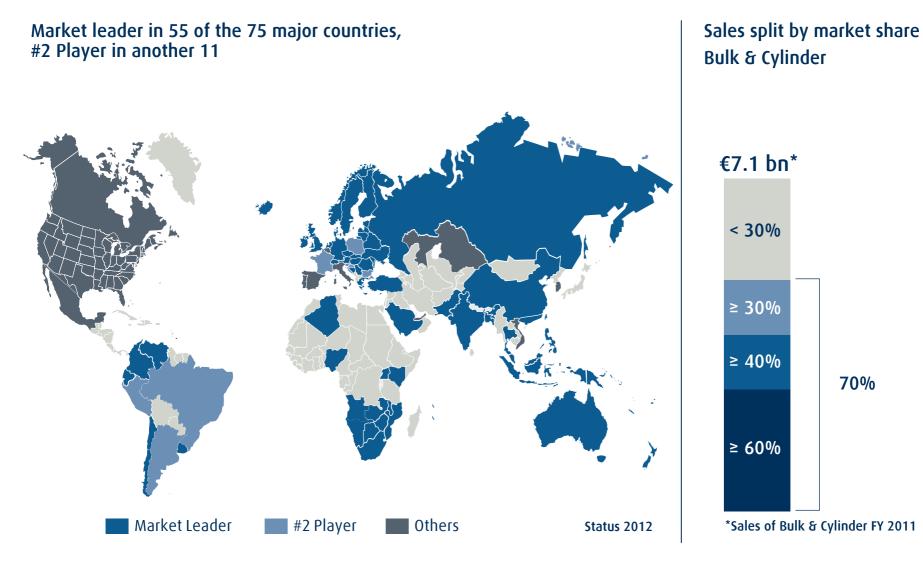


2011: Split of product areas by major end-customer groups



#### 2011: Split of sales by major end-customer groups

20%	Manufacturing
14%	Metallurgy & Glass
12%	Retail
11%	Healthcare
9%	Food & Beverage
5%	Electronics
7%	Other

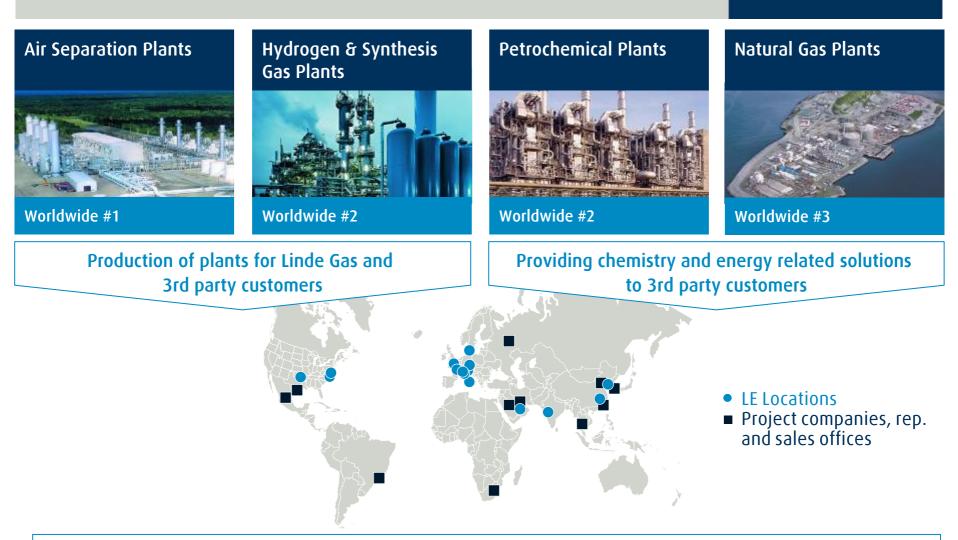


#### Gases Division, local business model 70% of revenues come from a leading market position



# Linde Engineering with leading market position in all segments

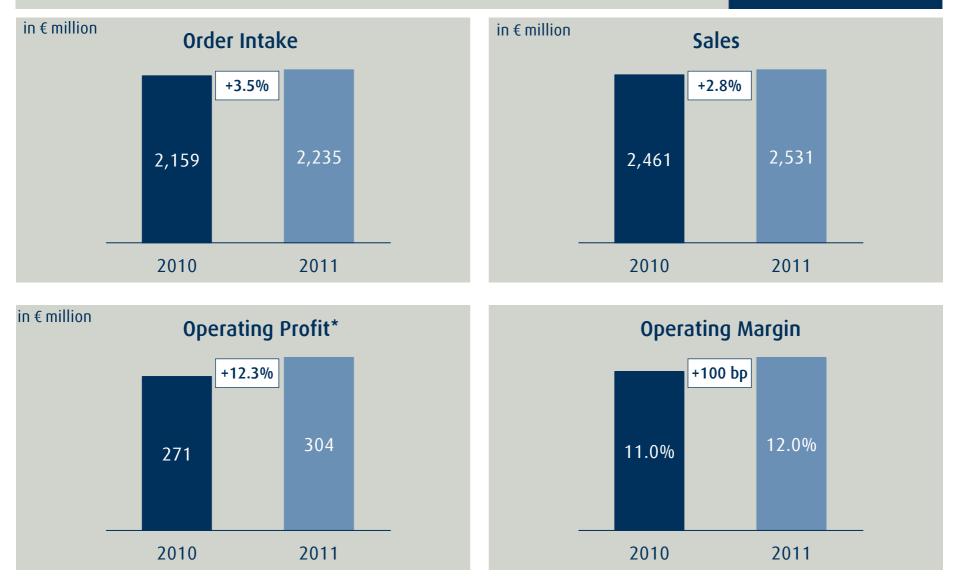




Supporting the energy/environmental mega-trend and leveraging customer relations for gas projects

# **Engineering Division, key figures** Order intake up by 3.5%



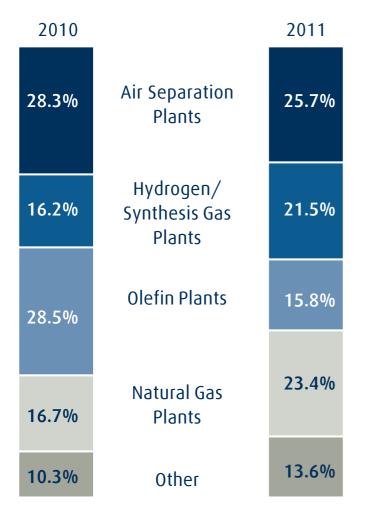


\*EBITDA incl. share of net income from associates and joint ventures

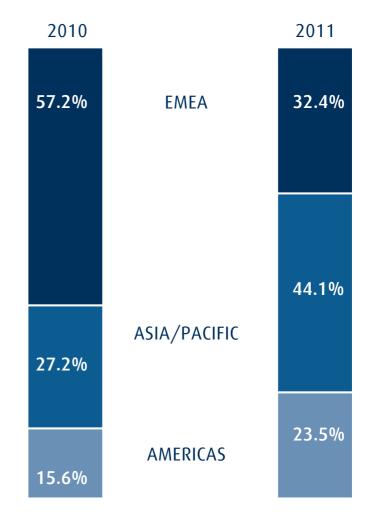
#### **Engineering Division** FY 2011 order intake by plant type and region



Order Intake by Plant Type



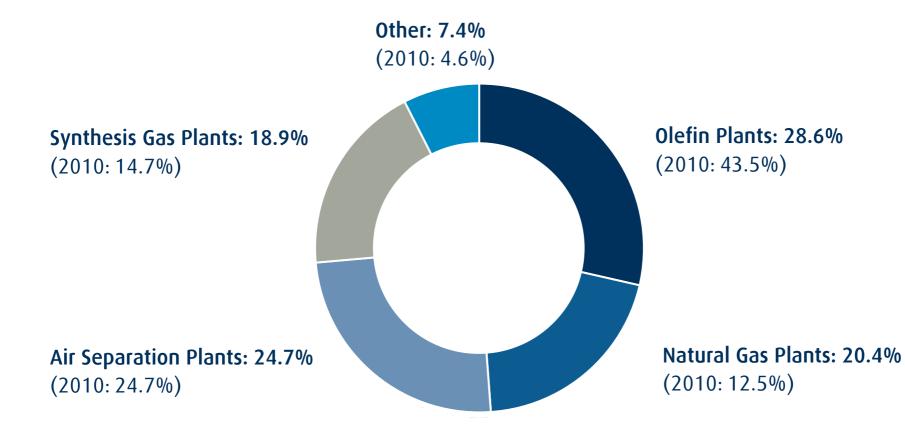
Order Intake by Region



#### **Engineering Division** Solid and diversified order backlog

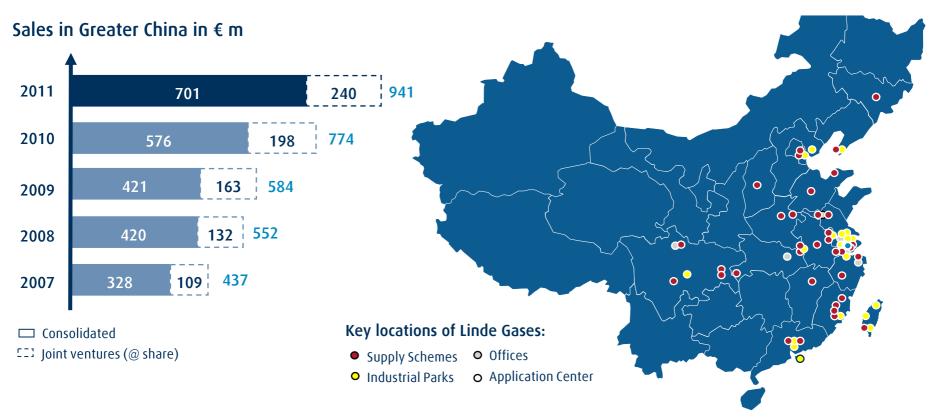


Order backlog by plant type (12/31/2011)



# Mega-trend Growth Markets LeadIng player in Greater China





- First international gases company in China in the 1980s
- Around 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

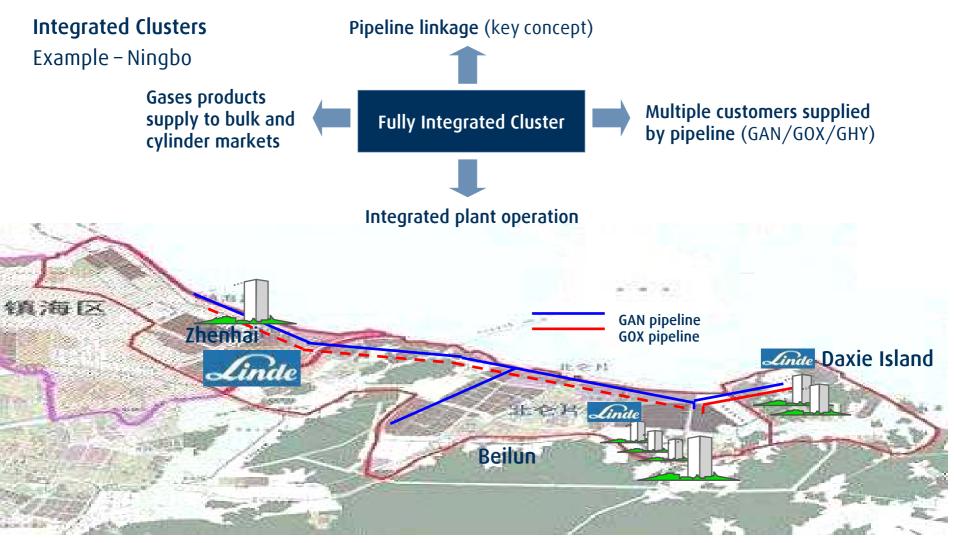
# **Growing with leading companies in key industries** A diverse customer portfolio to match an integrated business





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





# Clean Energy market estimation 2020 & 2030 top down



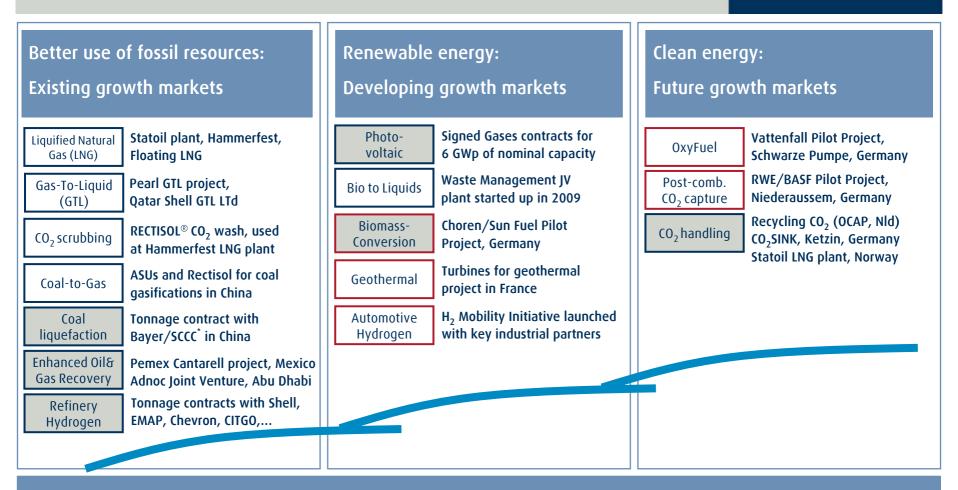
Market size in € bn	2015	2020	2030	Assumptions for 2030
Clean Coal			20 - 40	<ul> <li>Triple-digit number of 1 GW Carbon Capture (1.5 Gt/a CO<sub>2</sub> at EUR25-40/t)</li> </ul>
CO <sub>2</sub> networks	small	1	15 - 25	<ul> <li>Installation of significant pipeline network and corresponding compression         <ul> <li>(1.5 Gt/a handling fee CO<sub>2</sub> at EUR 10-15/t)</li> </ul> </li> </ul>
H <sub>2</sub> fueling	small	1	10 - 15	<ul> <li>Installation of a significant fuel station infrastructure</li> <li>Corresponding annual H<sub>2</sub> consumption of some bn tons p.a.</li> </ul>
EOR/EGR*	1.5	4 - 5	18 - 35	<ul> <li>Single to double digit number of large N<sub>2</sub> EOR/NRU projects</li> <li>Double digit number of large CO<sub>2</sub> EOR projects including industrial CO<sub>2</sub> capture and pipeline (overlapping w/CCS)</li> </ul>
LNG	3 - 4	6 - 10	11 - 23	<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>
Renewables	1	2	3	<ul> <li>Includes mainly gases used for manufacturing of photovoltaic cells</li> </ul>
Range	5 - 7	14 - 19	18-140	* Assuming 100% Build Own Operate and excluding sale of equipment and plants.

General assumptions:

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

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

# THE LINDE GROUP

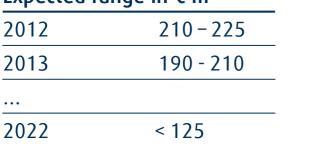


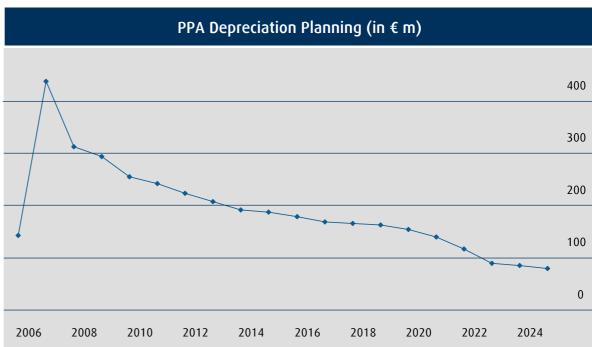
**Higher efficiency in energy use: Sustained growth in traditional end markets** REBOX® oxy-fuel (steel), WASTOX® (aluminium), Oxygen burner (glass), Water Treatment, ...

\*Shanghai Cooking & Chemical Corporation

#### **Group** PPA – Expected Depreciation & Amortisation

- Development of depreciation and amortisation
- Impact in Q1 2012: € 61 million





#### Expected range in € m



# 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 leases + net pension obligations - cash, cash equivalents and securities - receivables from financial leases
adjusted 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**

- Interim Report January to June: 27 July 2012
- Interim Report January to September: 29 October 2012