Investor Update

John McGlade
Chairman, President and CEO

Bank of America Merrill Lynch

Global Industries Conference

December 14, 2010



Forward Looking Statement

This presentation contains “forward-looking statements” within the safe harbor provisions of the Private Securities Litigation Reform Act of 1995, including earnings guidance; projections; targets; plans and expectations regarding growth opportunities, new projects, applications and technologies; and projections of synergies from the Company’s proposed acquisition of Airgas, Inc.. These forward-looking statements are based on management’s reasonable expectations and assumptions as of the date this Report is filed regarding important risk factors. Actual performance and financial results may differ materially from projections and estimates expressed in the forward-looking statements because of many factors not anticipated by management, including, without limitation, slowing of global economic recovery; renewed deterioration in economic and business conditions; weakening demand for the Company's products; future financial and operating performance of major customers and industries served by the Company; inability to collect receivables from or recovery of payments made by customers in bankruptcy proceedings; unanticipated contract terminations or customer cancellations or postponement of projects and sales; the success of commercial negotiations; asset impairments due to economic conditions or specific product or customer events; the impact of competitive products and pricing; interruption in ordinary sources of supply of raw materials; the ability to recover unanticipated increased energy and raw material costs from customers; costs and outcomes of litigation or regulatory activities; successful development and market acceptance of new products and applications, the ability to attract, hire and retain qualified personnel in all regions of the world where the Company operates; consequences of acts of war or terrorism impacting the United States and other markets; the effects of a natural disaster; the success of cost reduction and productivity programs and achieving anticipated acquisition synergies; the timing, impact, and other uncertainties of future acquisitions or divestitures; significant fluctuations in interest rates and foreign currencies from that currently anticipated; the continued availability of capital funding sources in all of the Company's foreign operations; the impact of environmental, healthcare, tax or other legislation and regulations in jurisdictions in which the Company and its affiliates operate; the impact of new or changed financial accounting guidance; the timing and rate at which tax credits can be utilized and other risk factors described in the Company’s Form 10K for its fiscal year ended September 30, 2010. The Company disclaims any obligation or undertaking to disseminate any updates or revisions to any forward-looking statements contained in this document to reflect any change in the Company’s assumptions, beliefs or expectations or any change in events, conditions, or circumstances upon which any such forward-looking statements are based.

ADDITIONAL INFORMATION

On February 11, 2010, Air Products Distribution, Inc. ("Purchaser"), a wholly owned subsidiary of Air Products and Chemicals, Inc. ("Air Products"), commenced a cash tender offer for all the outstanding shares of common stock of Airgas, Inc. ("Airgas") not already owned by Air Products, subject to the terms and conditions set forth in the Offer to Purchase dated as of February 11, 2010 (the "Offer to Purchase"). The purchase price to be paid upon the successful closing of the cash tender offer is $70.00 per share in cash, without interest and less any required withholding tax, subject to the terms and conditions set forth in the Offer to Purchase, as amended. The offer is scheduled to expire at midnight, New York City time, on January 14, 2011 unless further extended in the manner set forth in the Offer to Purchase.

This communication does not constitute an offer to buy or solicitation of an offer to sell any securities. The tender offer is being made pursuant to a tender offer statement on Schedule TO (including the Offer to Purchase, a related letter of transmittal and other offer materials) filed by Air Products with the U.S. Securities and Exchange Commission ("SEC") on February 11, 2010.

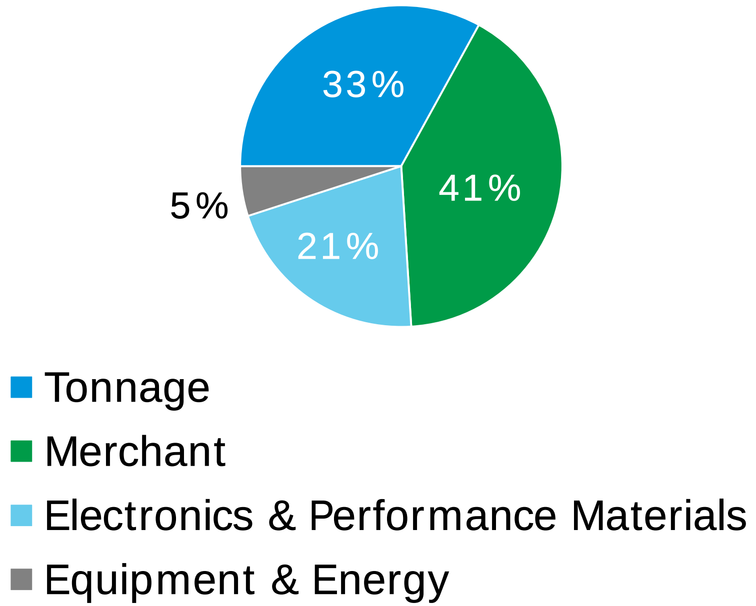
INVESTORS AND SECURITY HOLDERS OF AIRGAS ARE URGED TO READ THESE AND OTHER DOCUMENTS FILED WITH THE SEC CAREFULLY IN THEIR ENTIRETY BECAUSE THEY CONTAIN IMPORTANT INFORMATION ABOUT THE PROPOSED TRANSACTION. Investors and security holders can obtain free copies of these documents and other documents filed with the SEC by Air Products through the web site maintained by the SEC at http://www.sec.gov. The Offer to Purchase and related materials may also be obtained for free by contacting the Information Agent for the tender offer, MacKenzie Partners, Inc., at 212-929-5500 or toll-free at 800-322-2885.

CERTAIN INFORMATION REGARDING PARTICIPANTS

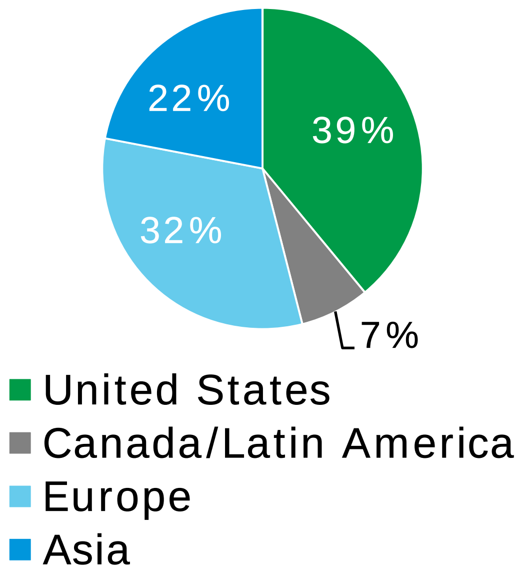
Air Products, Purchaser, and certain of their respective directors and executive officers may be deemed to be participants in the proposed transaction under the rules of the SEC. Security holders may obtain information regarding the names, affiliations and interests of Air Products' directors and executive officers in Air Products' Annual Report on Form 10-K for the year ended September 30, 2010, which was filed with the SEC on November 23, 2010, and its proxy statement for Air Products' 2010 Annual Meeting, which was filed with the SEC on December 10, 2009; and of Purchaser's directors and executive officers in the Offer to Purchase. These documents can be obtained free of charge from the sources indicated above. Additional information regarding the interests of these participants in the proxy solicitation and a description of their direct and indirect interests, by security holdings or otherwise, will also be included in any proxy statement and other relevant materials to be filed with the SEC when they become available.

Air Products
At a Glance

Business Segment Sales



Geographic Sales



- $9 billion company
- Diverse markets and geographies
- Positioned for continued long-term value creation

Air Products Supply Modes

Stability and Profitable Growth

Onsite/Pipeline

15-20 year Contracts
Limited Volume Risk
Energy Pass through

Package Gases & Specialty Materials

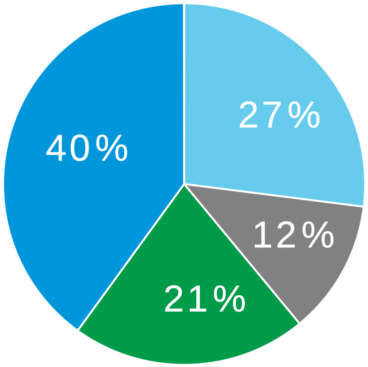
Short-Term Contracts
Differentiated Positions

Liquid/Bulk

3-5 year Contracts
Cost Recovery

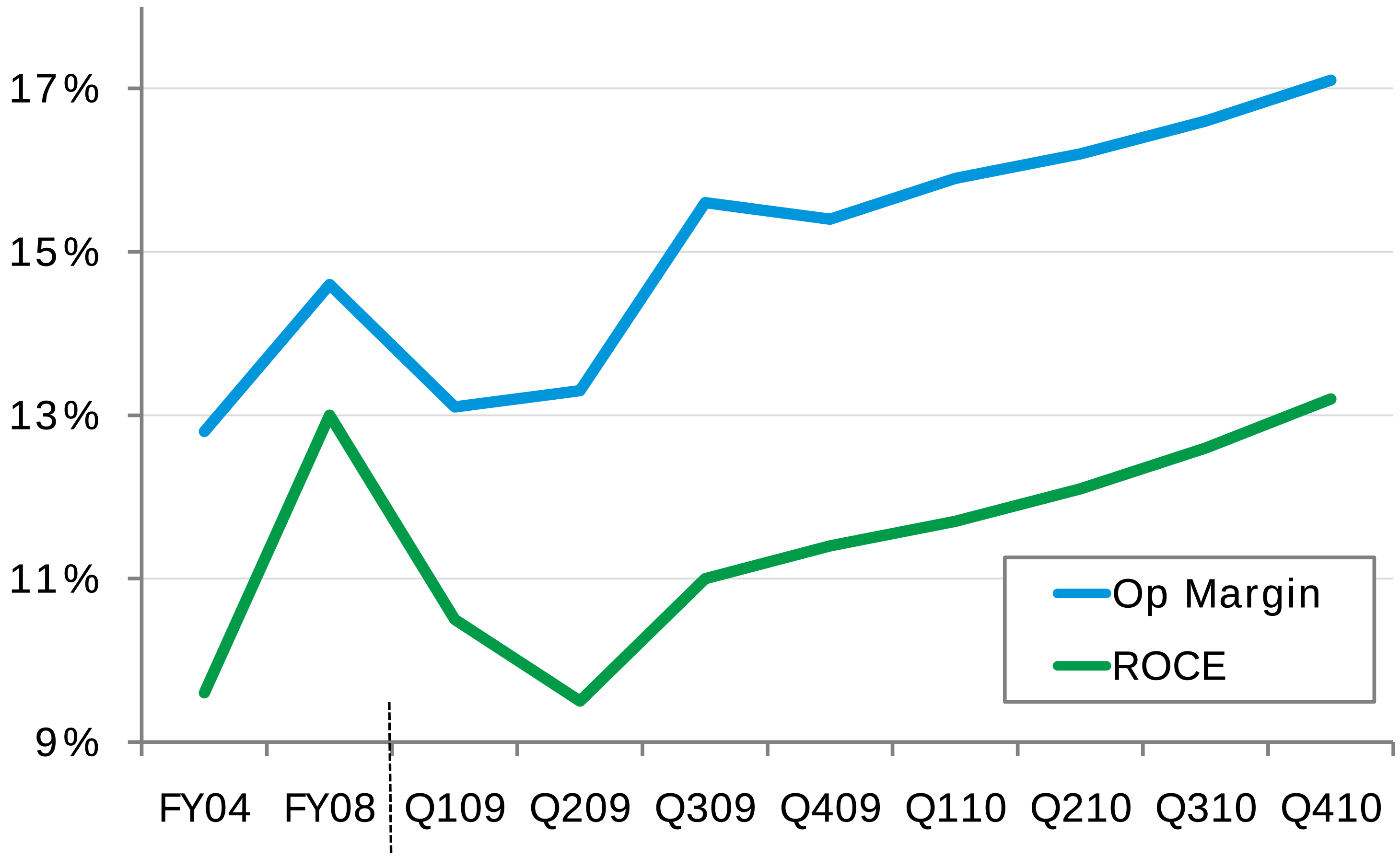
Equipment & Services

Sale of Equipment
PO Based



- Onsite/Pipeline
- Packaged Gases & Specialty Material
- Equipment & Services
- Liquid/Bulk

Financial Performance



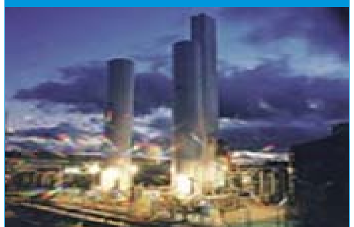
non-GAAP, see appendix for reconciliation

Macro Trends Drive Growth

Hydrogen Energy

- Leading refinery H_2 supplier
- Leader in H_2 fueling infrastructure; game-changing compression-less H_2 fueling technology

Large-scale O_2



- Clean / efficient combustion
- Gasification (IGCC, GTL, CTL, CTC)
- Oxyfuel / carbon capture

Electronic Materials

- Semiconductor and TFT-LCD materials
- SunSource™ solutions for PV; driving for grid parity

Clean Water

- Wastewater, drinking water and water reuse
- Halia™ ozone-based advanced oxidation technology

Energy, Environmental and Emerging Markets

Integrated Industrial Gas Model provides real benefits – locally and globally

Supply Chain Leverage

- Co-product economics
- Liquid back-up

- Density
- Product supply/outlet
- Molecule balance

Tonnage/ Onsites

Liquid/ Bulk

Packaged Gases

Market Opportunity

- New segments
  – PG only
  – Bundled
- Sales
  – Greater presence
  – Cross-selling opportunities
- Brand recognition

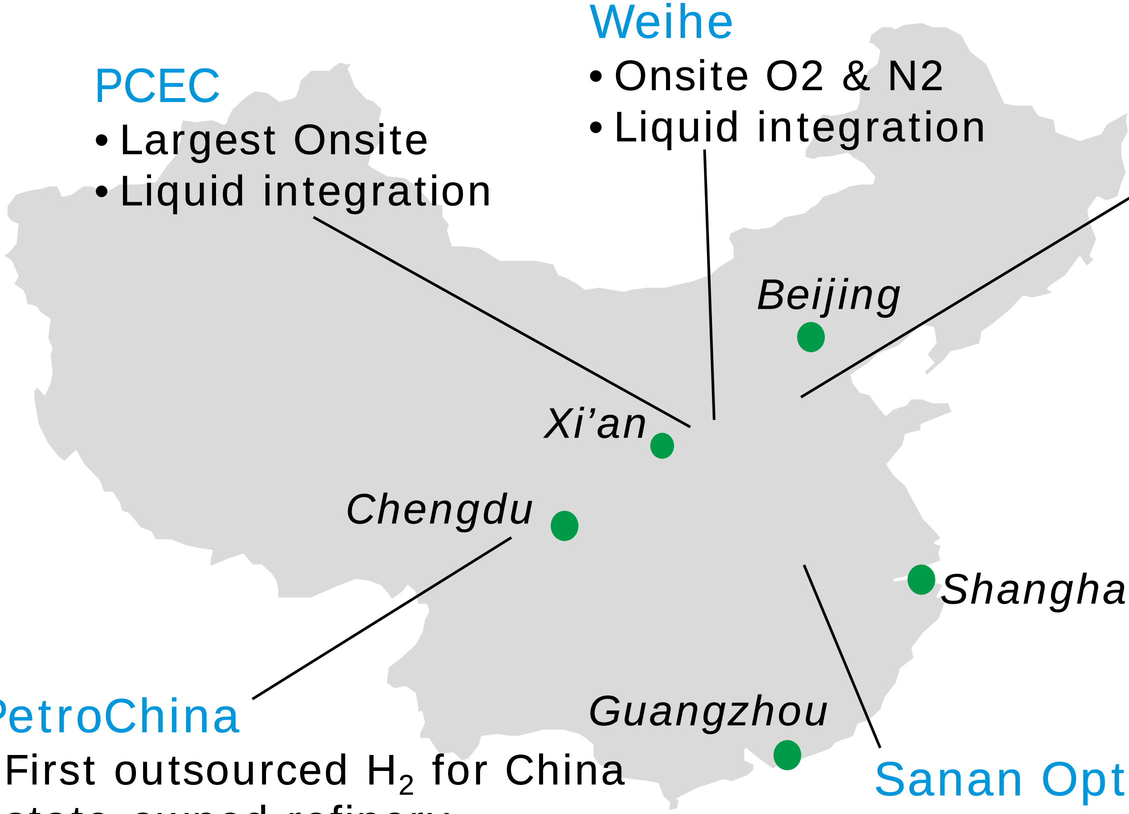
Global Scale

- Innovation
- Productivity and best practices
- Enterprise systems & processes

Outcome = Higher Growth and Higher Profitability

AIR PRODUCTS

Integrated Model in China



Weihe
- Onsite O2 & N2
- Liquid integration

PCEC
- Largest Onsite
- Liquid integration

Xingtai Steel
- Existing Asset Purchase
- New ASU
- Liquid integration

PetroChina
- First outsourced H_2 for China state-owned refinery
- Oxygen and Nitrogen

Sanan Optoelectronics
- First On-site Specialty Gas Plant
- Ammonia (NH_3) for LED

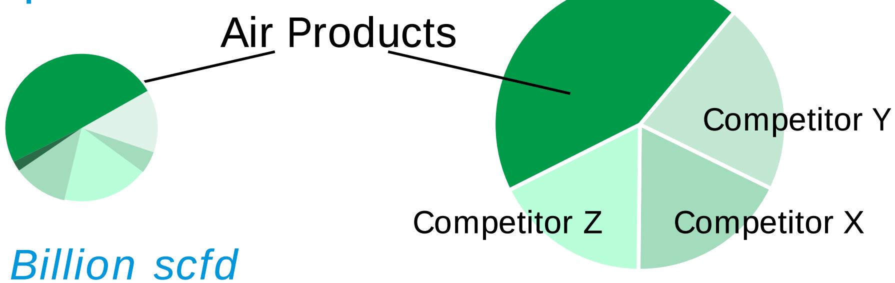
Packaged gas plants co-located with key merchant markets & assets
Over 2000 CryoEase® Services microbulk installations

Air Products: #1 Global H_2 Position in high growth market

- Maintained 40+% share over 20 years (2 x closest competitor)
- Significant Global Pipeline Networks
- Highly probable Market Growth Drivers

On-stream
Sept 2001

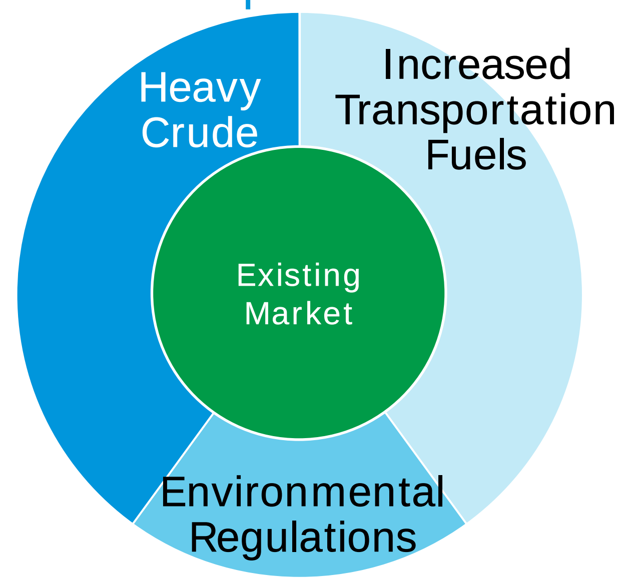
On-stream
Sept 2010



2.7 Billion scfd

5.4 Billion scfd

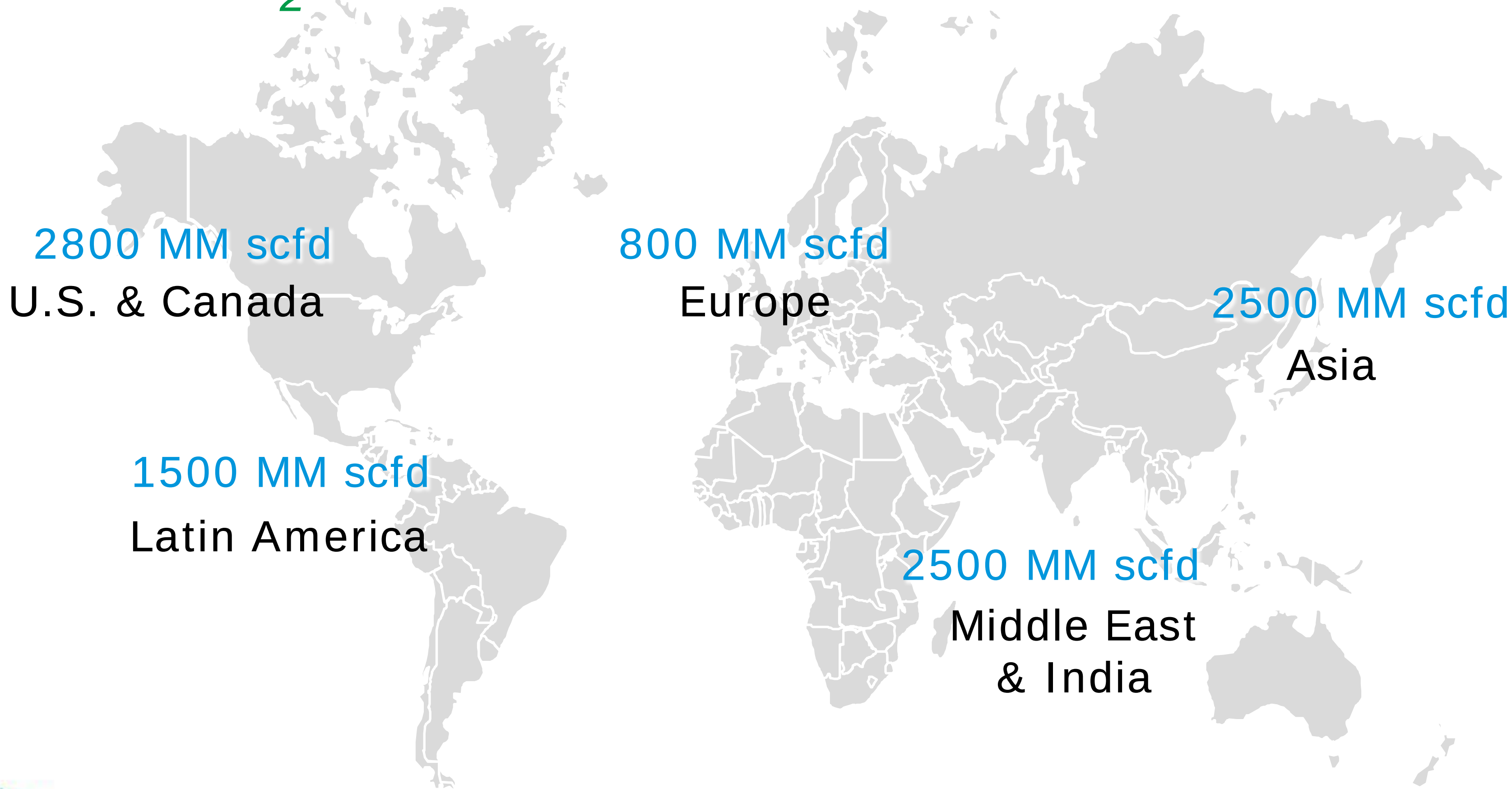
On-stream
Sept 2020



~11 Billion scfd

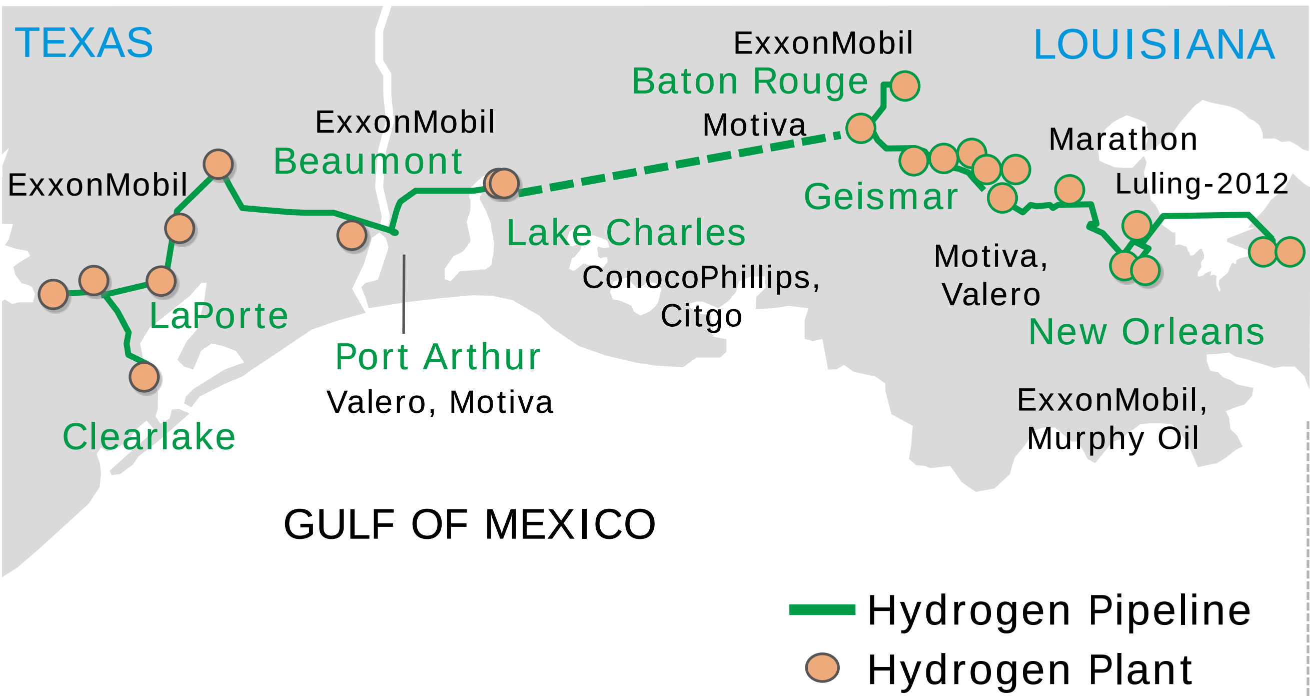
Global H_2 Market Growth* ~10 BSCFD

More geographically dispersed vs. earlier H_2 investments



*Based on estimates of H_2 2008 -2018 awards, on-stream by 2020

Air Products (Texas-Louisiana) USGC H_2 Pipeline Networks - 2010 / 2012



- > 1billion SCFD of capacity
- > 20 plants
- > 600 miles of pipeline driving:
  - Improved Supply Reliability
  - System Efficiency Optimization
  - Demand/Supply Balance
  - Future Project Development

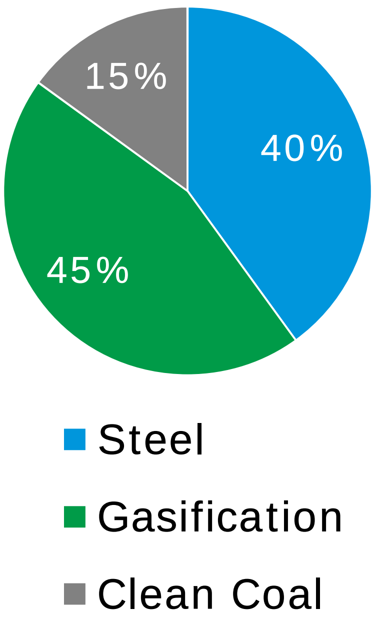
Tonnage Gases
Significant New Markets for Oxygen

- Steel
  - Asian infrastructure growth
  - Mill modernization
- Gasification
  - Power
  - Feedstock independence
  - Low BTU hydrocarbons
- Cleaner coal
  - Power
  - CO_2 capture

200,000-300,000 tons-per-day new oxygen capacity by 2018

100⁺ new plants

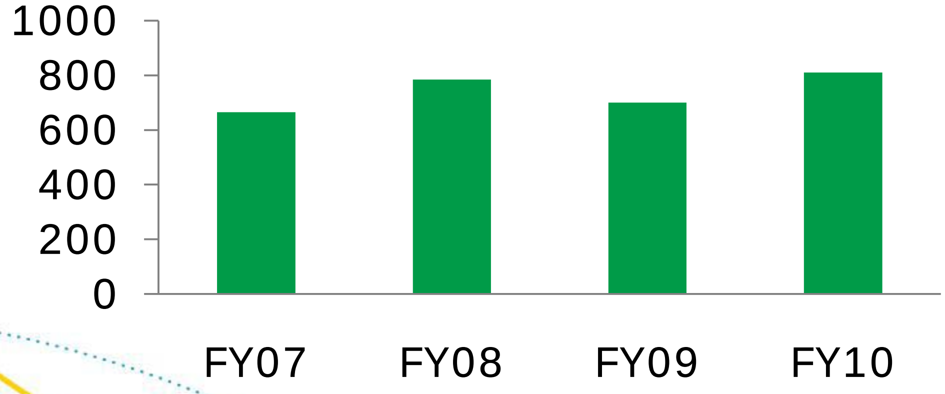
New Market Growth for Oxygen



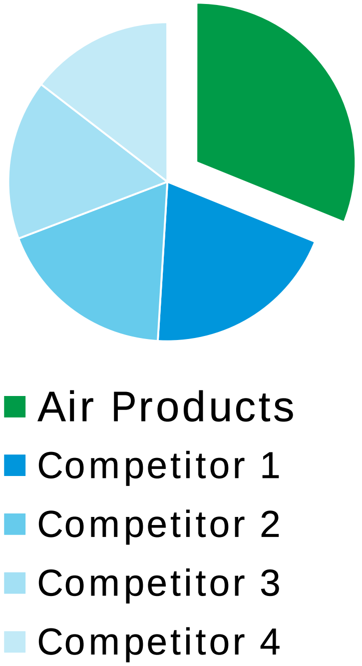
Merchant Gases
Strong growth in Asia

- Largest Liquid/Bulk Share in China
- Leading Merchant positions in Taiwan, Korea and Thailand
- Leading Merchant Gases supplier in India
- Generating growth through applications and product expertise

Asia Merchant Revenues ($ MM)



China Liquid Share 2009 – Majors



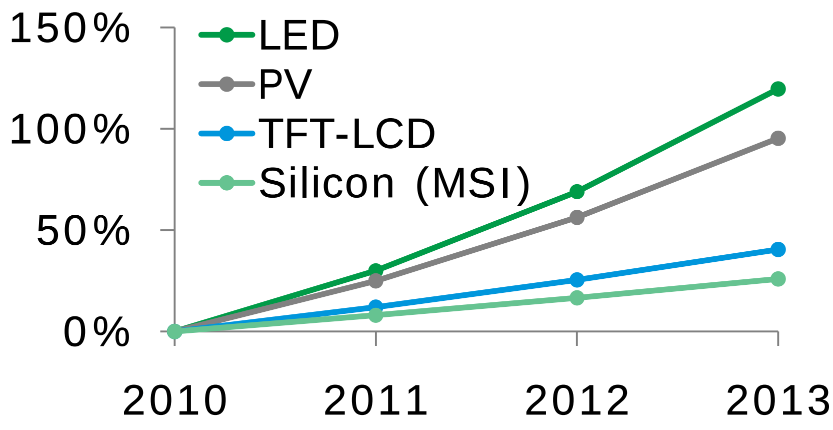
Merchant Gases

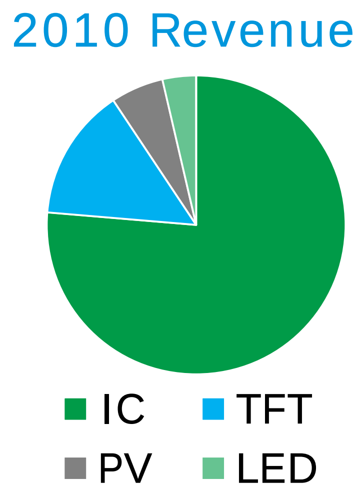
Applications technology drives higher growth

Markets	Applications	Benefits: Quality	Benefits: Productivity	Benefits: Environment
 Glass	Cleanfire® HRi™ Burner		✓	✓
 Food	Freshline® Dual Mode Freezer	✓	✓	
 Electronic Packaging	NitroFAS™ II Wave soldering enhancement	✓	✓	✓
 Cement	O_2 Proprietary Nozzles For alternative and low BTU value fuels		✓	✓

Electronics
High Growth Markets

- Growth across all key markets
  - IC silicon (MSI) = 8%
  - TFT-LCD = 12%
  - PV = 25%
  - LED = 30%
- Majority positions with industry leaders
  - #1 in IC, TFT-LCD and foundry
- #1 in Electronic industry powerhouses Korea and Taiwan
- New IP Product Development to meet customer technology needs





Performance Materials
Earth-Friendly Solutions

Replacing Toxic or Emitting Materials

- Water-based construction materials
- Low emission polyurethane foams
- Low toxicity coatings additives

Higher Efficiency Insulation Materials

- Reduced energy consumption
- Lower carbon footprint buildings

Renewable Content

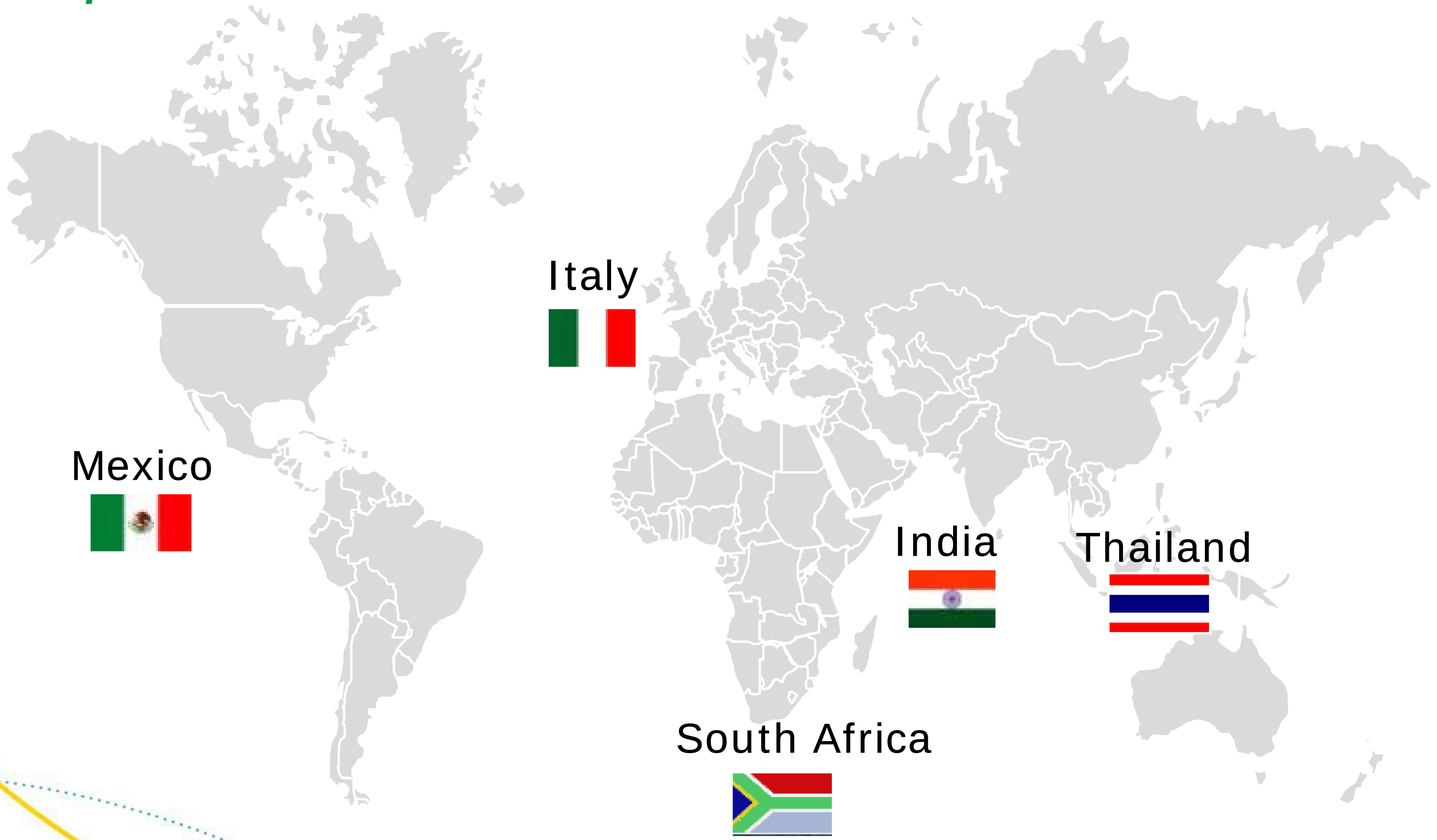
- Natural-based surfactants for I&I cleaning
- Enabling vegetable base polyols for polyurethane foams

AIR PRODUCTS

Equipment and Energy
Positioned for continued growth

- ~$0.5 billion in FY'10 sales
- Products
  - LNG heat exchangers, large air separation units, hydrocarbon separators, helium containers, hydrogen fueling systems
- Strategy
  - Leverage existing relationships
  - Develop energy projects
  - Leverage engineering technology and products to grow gases businesses

Equity Affiliates
$2.3B revenue on 100% basis
Important Source of Growth



Sustainability at Air Products

Business Value

Providing innovative solutions for the world's most pressing challenges

Environmental Stewardship

Responsibly managing our footprint through improvements and aggressive goals

Social Responsibility

Improving the quality of life for our employees and plant communities

Governance

Working with integrity and accountability for our stakeholders

Water
- Reduce consumption 10% globally by 2015

Greenhouse Gases
- Reduce by 7% indexed against production by 2015

FY’11 Full Year Outlook

- FY’11 overall… expecting a continued, gradual, global economic recovery
- WW manufacturing growth
  - Global 3% - 4%
  - US 3% - 4%
  - EU 1% - 2%
  - Asia 6% - 7%
- Silicon growth 5% - 10%
- Capex forecast …
  - ~$1.5B to $1.7B

- FY’10 Adjusted Diluted EPS $5.02
  - Merchant loading
  - Tonnage new projects/loading
  - E&E similar to last year
  - E&PM loading
  - Pension headwind
  - Tax rate about 25% - 26%

- FY’11 EPS $5.50-$5.70
  10% - 14% growth vs PY

non-GAAP, see appendix for reconciliation

The Air Products opportunity

Stability

- Long term contracts, consistent and predictable cash flow
- Diversified across markets, geographies and distribution channels
- Global opportunity to create competitive positions in all three supply modes

Growth

- Solid backlog and strong growth opportunities in all geographies
- New growth opportunities in energy, environment and emerging markets
- Global packaged gases opportunities broaden our growth portfolio

Results

- Double-digit EPS growth
- ROCE 3-5% above cost of capital
- Continued margin and return improvement

Well positioned for long-term value creation

AIR PRODUCTS

Appendix Slides

Non GAAP Appendix: *ROCE FY04 and FY08*

$ Millions	FY04					FY08				
Quarter Ended	Q403	Q104	Q204	Q304	Q404	Q407	Q108	Q208	Q308	Q408
Numerator										
Operating Income Reported		181.7	200.2	231.3	223.7		380.4	348.6	393.7	373.1
Equity Affiliate Income		17.8	19.2	19.8	21.8		25.3	42.4	46.5	30.8
Earnings before tax as reported		199.5	219.4	251.1	245.5		405.7	391.0	440.2	403.9
Pension Settlement Charge		0.0	0.0	0.0	0.0		0.0	26.3	0.0	0.0
Proforma Stock Option Expense		(12.0)	(12.1)	(12.7)	(12.2)		0.0	0.0	0.0	0.0
Earnings before tax ex items		187.5	207.3	238.4	233.3		405.7	417.3	440.2	403.9
Effective tax rate as reported		26.3%	27.7%	27.6%	25.2%		26.9%	25.3%	25.0%	23.3%
Earnings after tax as reported		147.0	158.6	181.8	183.6		296.6	292.1	330.2	309.8
Effective tax rate ex items		25.4%	27.0%	27.0%	24.5%		26.9%	26.1%	25.0%	23.3%
Earnings after tax ex items		139.9	151.3	174.0	176.1		296.6	308.4	330.2	309.8
4 Qtr trailing AT earnings (numerator) - as reported					671.0					1,228.7
4 Qtr trailing AT Earnings (numerator) - ex items					641.3					1,245.0
Denominator										
Total Debt	2,503.0	2,547.4	2,624.4	2,428.8	2,384.5	3,667.8	3,972.5	4,383.9	4,027.3	3,966.8
Air Products Shareholders' Equity	3,759.3	3,982.5	4,141.0	4,245.6	4,420.0	5,495.6	5,603.0	5,524.3	5,568.7	5,030.7
Noncontrolling Interest	105.2	107.3	99.3	85.1	88.8	92.9	99.3	117.4	115.5	136.2
Total Capital	6,367.5	6,637.2	6,864.7	6,759.5	6,893.3	9,256.3	9,674.8	10,025.6	9,711.5	9,133.7
5 Qtr Average Capital (denominator)					6,704.4					9,560.4
ROCE as rptd (4 Qtr trail AT earnings / 5 pt avg capital)					10.0%					12.9%
ROCE ex items (4 Qtr trail AT earnings/ 5 pt avg capital)					**9.6%**					**13.0%**

AIR PRODUCTS

Non GAAP Appendix:
ROCE Tax Rate FY04 and FY08

	Q104	Q204	Q304	Q404	Q108	Q208	Q308	Q408
Reported								
Income from Cont. Ops. Bef. Tax	169.0	187.6	221.8	217.6	364.9	352.1	400.7	361.1
Noncontrolling Interest	(1.9)	(4.1)	(3.3)	(2.5)	(6.1)	(4.5)	(7.6)	(4.8)
Income from Cont. Ops. Before Tax, after Noncontrolling Interest	167.1	183.5	218.5	215.1	358.8	347.6	393.1	356.3
Tax Expense	43.9	50.8	60.4	54.3	96.5	87.8	98.1	82.9
Tax Rate Reported	26.3%	27.7%	27.6%	25.2%	26.9%	25.3%	25.0%	23.3%
ITEMS								
Operating Income								
Proforma Option Expense	(12.0)	(12.1)	(12.7)	(12.2)				
Pension Settlement Charge						26.3		
Tax Exp								
Proforma Option Expense	(4.5)	(4.5)	(4.8)	(4.6)				
Pension Settlement Charge						9.8		
Ex Items								
Income from Cont. Ops. Before Tax	155.1	171.4	205.8	202.9	358.8	373.9	393.1	356.3
Tax Expense	39.4	46.3	55.6	49.7	96.5	97.6	98.1	82.9
Tax Rate ex Items	25.4%	27.0%	27.0%	24.5%	26.9%	26.1%	25.0%	23.3%

Non GAAP Appendix:
FY04 and FY08 Operating Margin

($ Millions)

FY04 and FY08 - Total Co.	GAAP Measure FY04	GAAP Measure FY08	Non GAAP Ajusts. FY04 (1)	Non GAAP Ajusts. FY08 (2)	Non GAAP Measure FY04	Non GAAP Measure FY08
Sales	6,163.2	10,414.5			6,163.2	10,414.5
Operating Income	836.9	1,495.8	(49.0)	26.3	787.9	1,522.1
Operating Margin	13.6%	14.4%			**12.8%**	**14.6%**

(1) Proforma Stock Option Expense
(2) Q208 Pension Settlement

Non GAAP Appendix: Operating Margin Trend

($millions)	Q109	Q209	Q309	Q409	Q110	Q210	Q310	Q410
Sales	2,195.3	1,955.4	1,976.2	2,129.3	2,173.5	2,249.0	2,252.3	2,351.2
GAAP Operating Income	114.1	260.4	143.8	328.0	345.0	340.6	336.4	367.0
GAAP Operating Margin	5.2%	**13.3%**	7.3%	**15.4%**	**15.9%**	15.1%	14.9%	15.6%
Non GAAP Adjustments								
Global Cost Reduction Plan	174.2		124.0					
Pension Settlement			8.0					
Customer Bankruptcy and Asset Actions			32.1					
Acquisition - Related Costs						23.4	37.9	34.7
Non GAAP Operating Income	288.3		307.9			364.0	374.3	401.7
Non GAAP Operating Margin	**13.1%**		**15.6%**			**16.2%**	**16.6%**	**17.1%**

AIR PRODUCTS

Appendix: *ROCE*

$ Millions												
Quarter Ended	Q108	Q208	Q308	Q408	Q109	Q209	Q309	Q409	Q110	Q210	Q310	Q410
Numerator												
Operating Income Reported		348.6	393.7	373.1	114.1	260.4	143.8	328.0	345.0	340.6	336.4	367.0
Equity Affiliate Income		42.4	46.5	30.8	24.5	27.0	28.5	32.2	26.9	32.2	32.5	35.3
Earnings before tax as reported		391.0	440.2	403.9	138.6	287.4	172.3	360.2	371.9	372.8	368.9	402.3
Global Cost Reduction Plan		0.0	0.0	0.0	174.2	0.0	124.0	0.0	0.0	0.0	0.0	0.0
Pension Settlement Charge		26.3	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0
Customer Bankruptcy and Asset Actions		0.0	0.0	0.0	0.0	0.0	32.1	0.0	0.0	0.0	0.0	0.0
Acquisition - Related Costs		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	37.9	34.7
Earnings before tax ex items		417.3	440.2	403.9	312.8	287.4	336.4	360.2	371.9	396.2	406.8	437.0
Effective tax rate as reported		25.3%	25.0%	23.3%	7.3%	26.0%	18.1%	26.0%	24.9%	25.2%	23.5%	25.6%
Earnings after tax as reported		292.1	330.2	309.8	128.5	212.7	141.1	266.5	279.3	278.9	282.2	299.3
Effective tax rate ex items		26.1%	25.0%	23.3%	24.0%	26.0%	26.1%	26.0%	24.9%	26.0%	24.9%	26.6%
Earnings after tax ex items		308.4	330.2	309.8	237.7	212.7	248.6	266.5	279.3	293.2	305.5	320.8
4 Qtr trailing AT earnings (numerator) - as reported					1,060.6	981.2	792.1	748.8	899.6	965.8	1,106.9	1,139.7
4 Qtr trailing AT Earnings (numerator) - ex items					1,186.1	1,090.4	1,008.8	965.5	1,007.1	1,087.6	1,144.5	1,198.8
Denominator												
Total Debt	3,972.5	4,383.9	4,027.3	3,966.8	4,169.2	4,102.4	4,145.2	4,501.5	4,418.7	4,343.4	4,188.0	4,128.3
Air Products Shareholders' Equity	5,603.0	5,524.3	5,568.7	5,030.7	4,726.1	4,638.1	4,928.3	4,791.9	5,033.9	5,265.6	5,231.4	5,547.2
Noncontrolling Interest	99.3	117.4	115.5	136.2	137.9	126.7	134.6	138.1	150.2	152.7	140.5	150.7
Total Capital	9,674.8	10,025.6	9,711.5	9,133.7	9,033.2	8,867.2	9,208.1	9,431.5	9,602.8	9,761.7	9,559.9	9,826.2
5 Qtr Average Capital (denominator)					9,515.8	9,354.2	9,190.7	9,134.7	9,228.6	9,374.3	9,512.8	9,636.4
ROCE as rptd (4 Qtr trail AT earnings / 5 pt avg capital)					11.1%	10.5%	8.6%	8.2%	9.7%	10.3%	11.6%	11.8%
ROCE ex items (4 Qtr trail AT earnings/ 5 pt avg capital)					12.5%	11.7%	11.0%	10.6%	10.9%	11.6%	12.0%	12.4%
Instantaneous ROCE ex items (Qtr earnings AT x 4) / 2 pt avg capital)					10.5%	9.5%	11.0%	11.4%	11.7%	12.1%	12.6%	13.2%

Appendix: *ROCE Tax Rate*

	Q208	Q308	Q408	Q109	Q209	Q309	Q409	Q110	Q210	Q310	Q410
Reported											
Income from Cont. Ops. Bef. Tax	352.1	400.7	361.1	102.1	257.4	144.8	332.3	340.3	343.3	338.9	371.5
Noncontrolling Interest	(4.5)	(7.6)	(4.8)	(5.0)	(1.6)	(4.8)	-	(5.0)	(6.4)	(8.1)	(5.9)
Income from Cont. Ops. Before Tax, after Noncontrolling Interest	347.6	393.1	356.3	97.1	255.8	140.0	332.3	335.3	336.9	330.8	365.6
Tax Expense	87.8	98.1	82.9	7.1	66.5	25.4	86.3	83.5	84.9	77.6	93.5
Tax Rate Reported	**25.3%**	**25.0%**	**23.3%**	**7.3%**	**26.0%**	**18.1%**	**26.0%**	**24.9%**	**25.2%**	**23.5%**	**25.6%**
ITEMS											
Operating Income											
Global Cost Reduction Plan				174.2		124.0					
Pension Settlement Charge	26.3					8.0					
Customer Bankruptcy and Asset Actions						32.1					
Acquisition - related costs									23.4	37.9	34.7
Tax Exp											
Global Cost Reduction Plan				58.1		39.8					
Supp. Pension Plan Charge	9.8					3.0					
Tax adjustments											
Customer Bankruptcy and Asset Actions						11.1					
Acquisition - related costs									8.8	14.2	12.9
Ex Items											
Income from Cont. Ops. Before Tax	373.9	393.1	356.3	271.3	255.8	304.1	332.3	335.3	360.3	368.7	400.3
Tax Expense	97.6	98.1	82.9	65.2	66.5	79.3	86.3	83.5	93.7	91.8	106.4
Tax Rate ex Items	**26.1%**	**25.0%**	**23.3%**	**24.0%**	**26.0%**	**26.1%**	**26.0%**	**24.9%**	**26.0%**	**24.9%**	**26.6%**

Appendix: FY11 Guidance

	Diluted EPS Continuing Ops
FY10 GAAP	$4.74
FY10 Acquisition - Related Costs	$0.28
FY10 Non GAAP	$5.02
FY11 Guidance (1)	$5.50-$5.70
% Change GAAP	16%-20%
% Change Non GAAP	10%-14%

(1) Excludes acquisition - related costs

Thank you…
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