



# The Global Industrial Gases Business

*Current Trends and Issues*

**John Raquet**

British Cryogenics Council's Cluster Day  
September 2013

# Introduction

## John Raquet



- Began life at



- Moved to ...



Taylor-Wharton

- Escaped and became a General Consultant –



- Set up what became Spiritus in 1995
  - 100% focused on industrial gases business

- Founded gasworld.com (2003):



- Acquired CryoGas International (July 2013)



# Agenda



- Global Gases Business: Overview
- The Bulk and Cryogenics Business
- Summary

# Global Gases Business

## *Current Realities of the Industry*



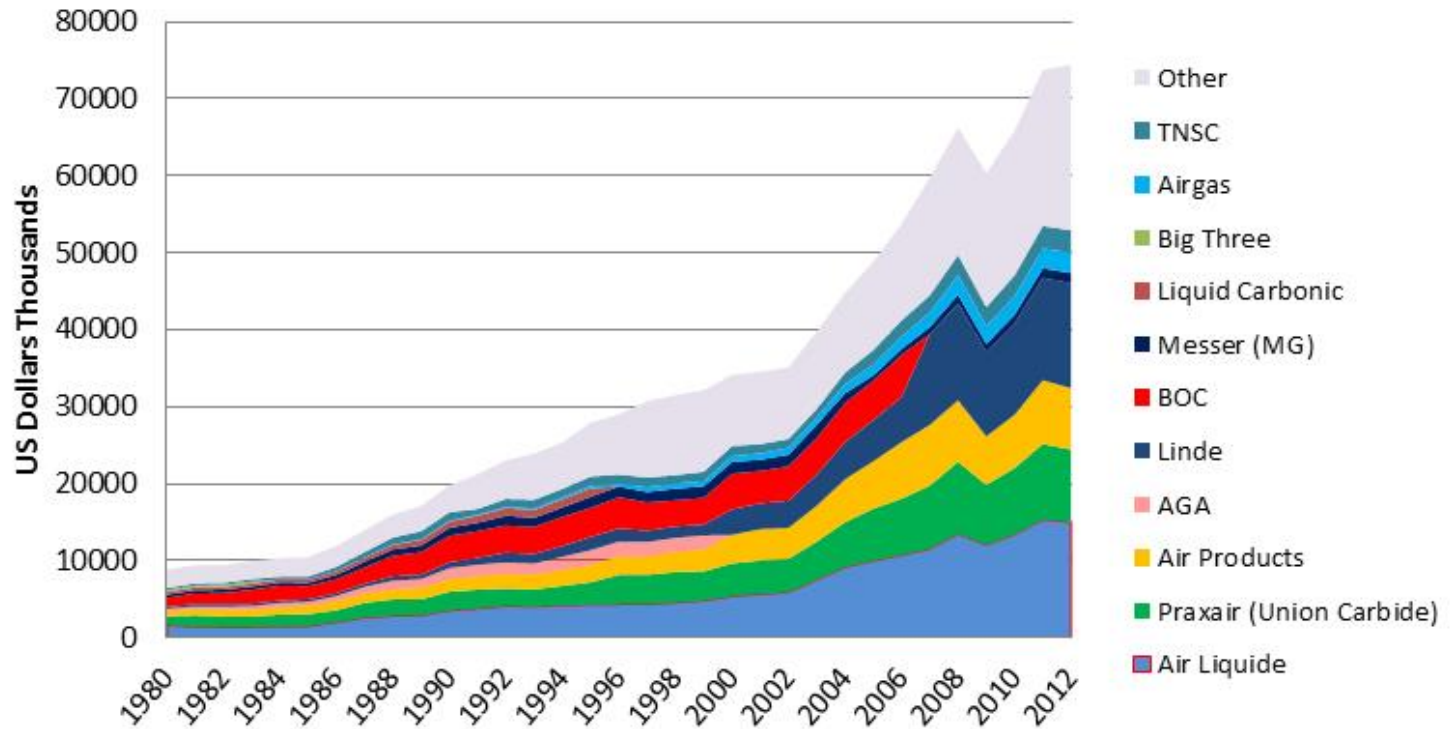
- **Industry reached c. \$74.5 Bn in 2012 (+1% on 2011)**
  - excl. equipment sales, wholesales and non-gas business
- **6 Months 2013 shows improvement to about 6% for the year**
  - Both volume driven
- **Spiritus 5-year forecast predicts 7-7.5% CAGR**
- **The industrial gases business may have become global but is executed on a local basis**
- **Capex requirements very dependent on business mix (on-sites v bulk v cylinder) and demand for gases**
- **Consolidation Continues across the world**
- **Industrial gases remains moderately profitable**
  - c 16-18% EBIT but provides consistent shareholder value.

# Market Research

## *Global Gases Business*



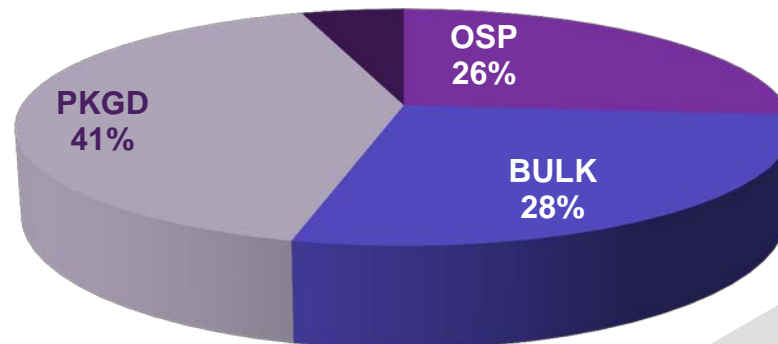
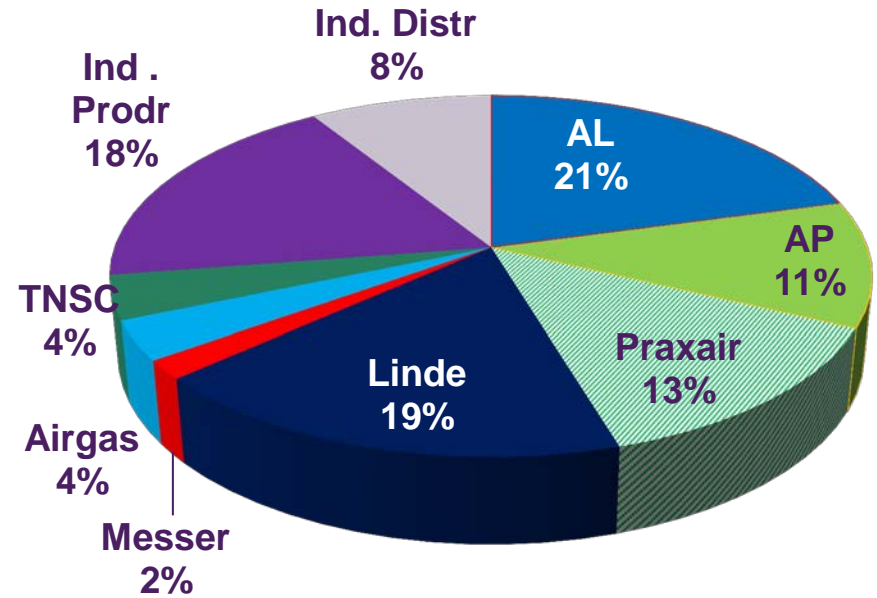
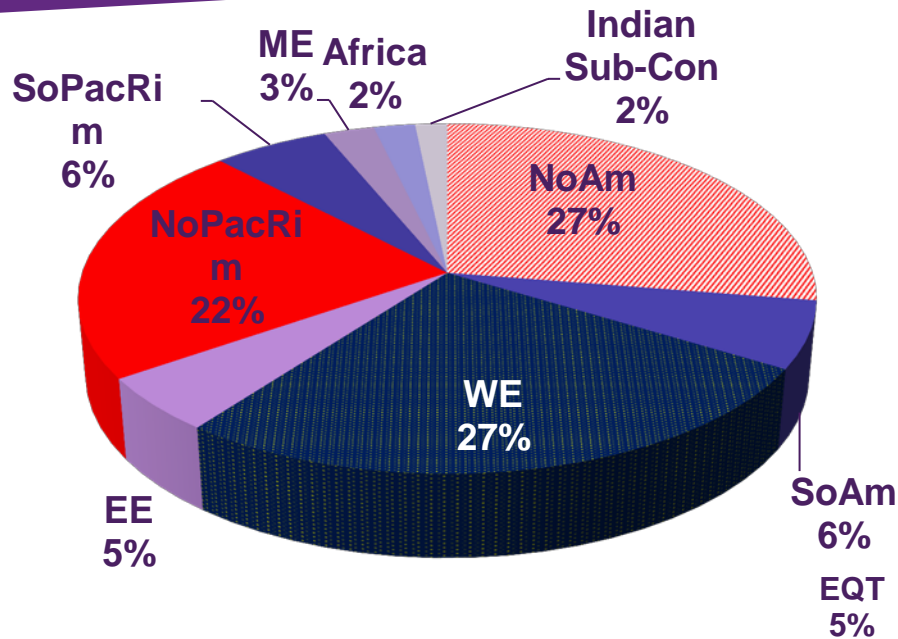
### Global Gases Business 1980-2012



Current US\$

# Global Gases Business

## Est. 2012 Structure

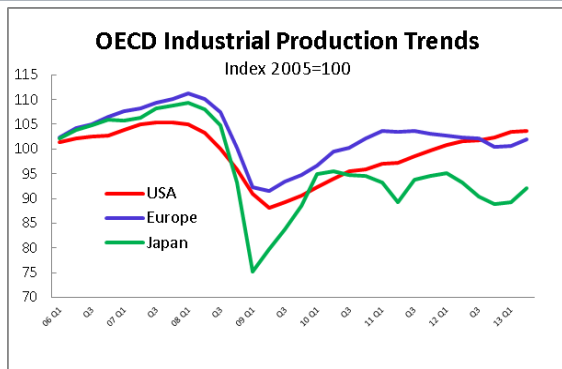


# Global Gases Business

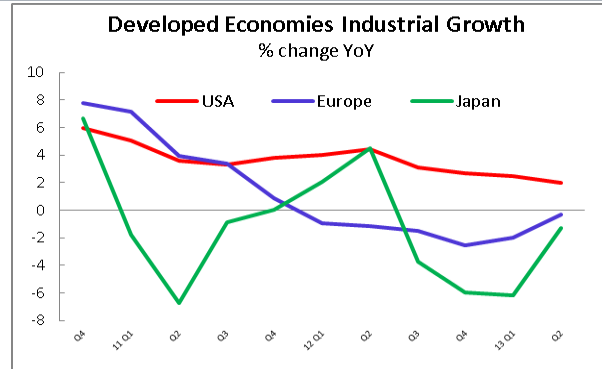
## Q2 2013 Performance Dashboard



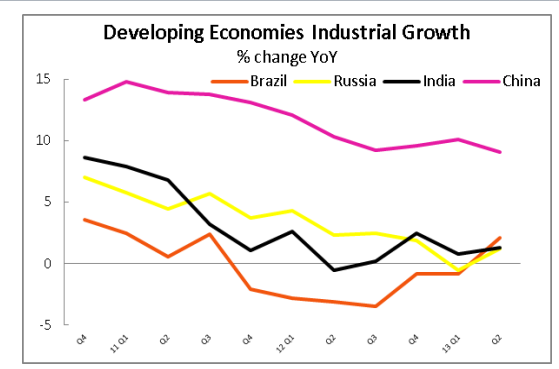
### INDUSTRIAL PRODUCTION DEVELOPED COUNTRIES



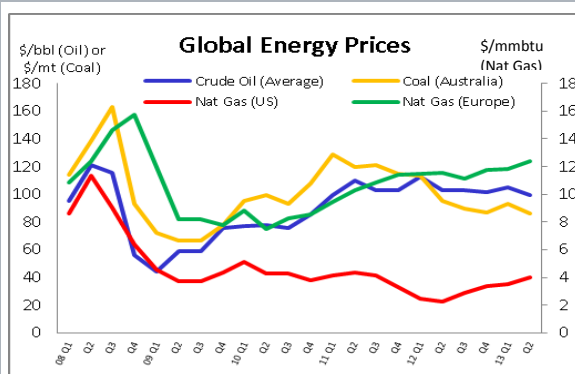
### DEVELOPED ECONOMIES GROWTH



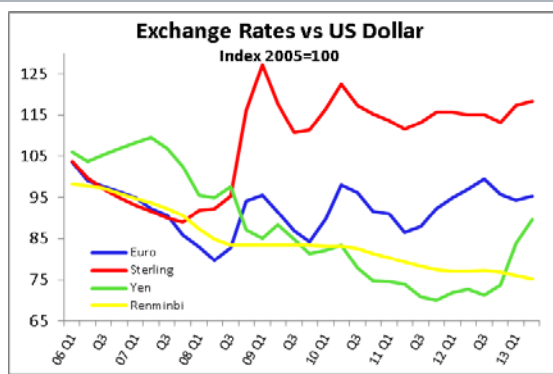
### DEVELOPING ECONOMIES GROWTH



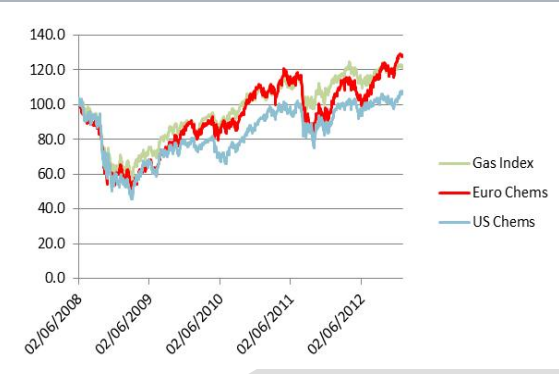
### GLOBAL ENERGY PRICING



### MAJOR CURRENCIES



### STOCK MARKET PRICES



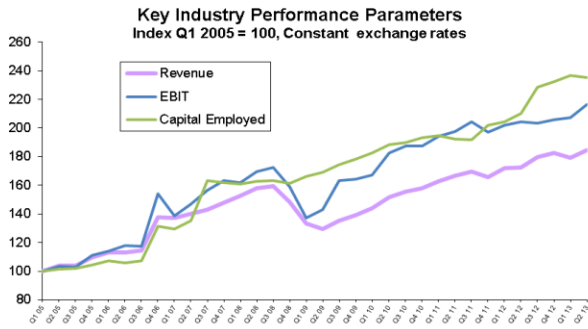
**Global output up modestly in Q2 – China and US highest YoY growth, Japan & Europe weakest; Energy prices mixed – natural gas up; Currency movements dominated by swing in Yen**

# Global Gases Business

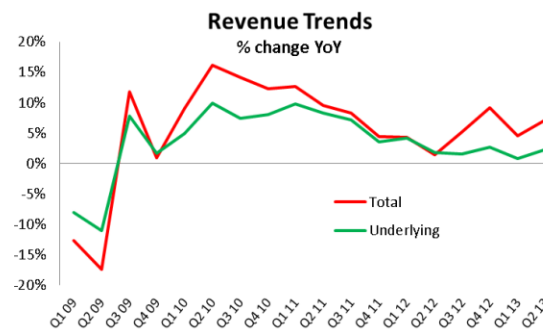
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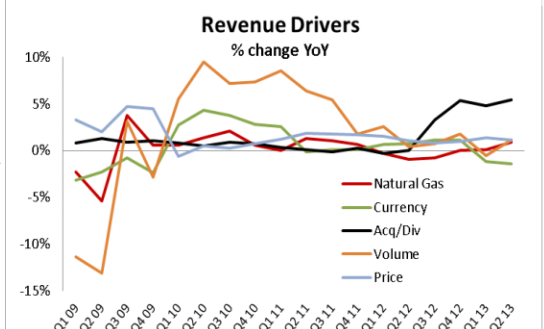
### GAS MAJORS' PERFORMANCE



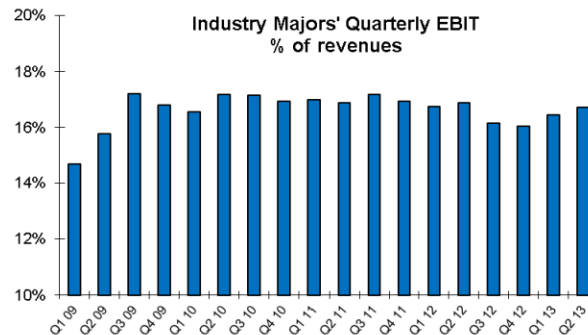
### INDUSTRY REVENUE TRENDS



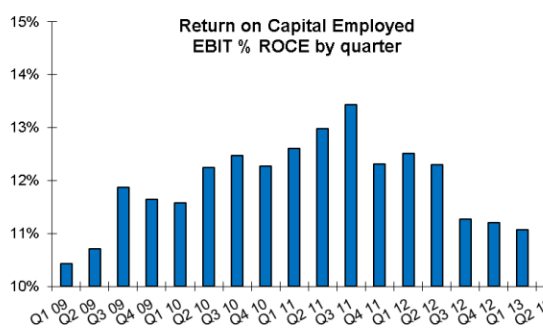
### INDUSTRY REVENUE DRIVERS



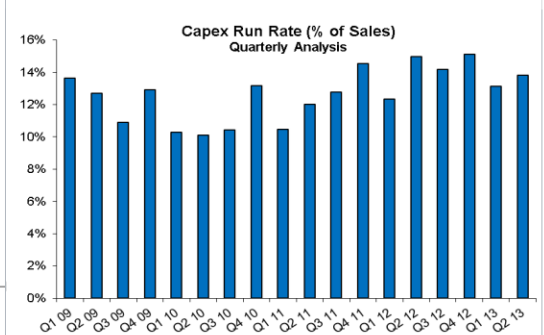
### INDUSTRY EBIT MARGIN



### RETURN ON CAPITAL EMPLOYED



### CAPEX RUN RATE

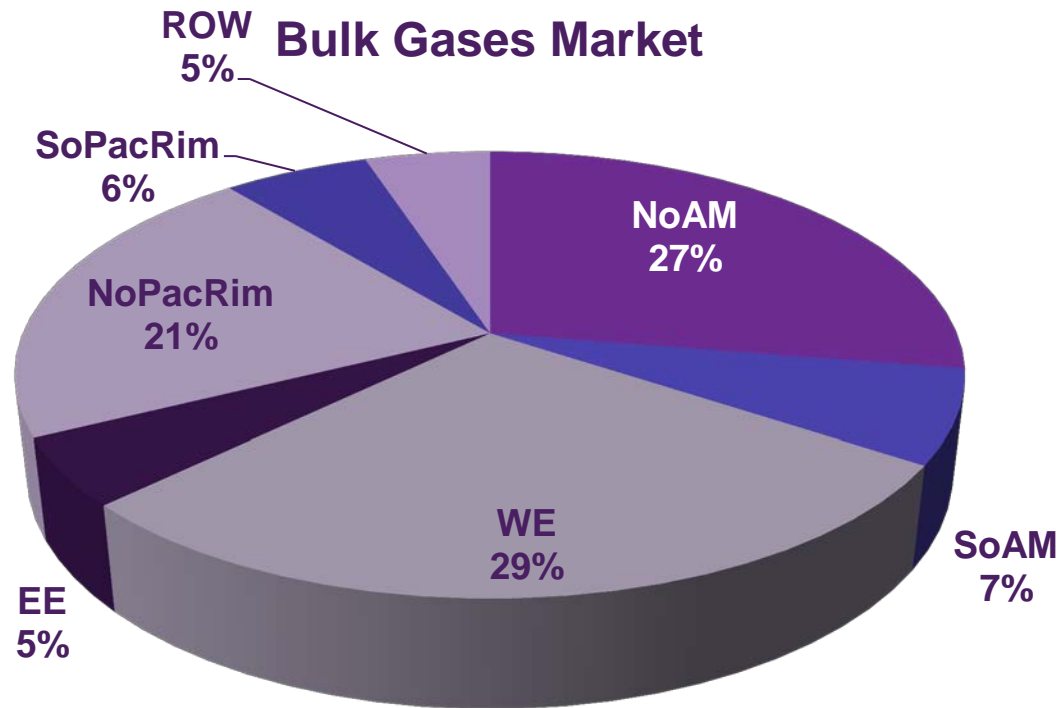


**Industry growth trend resumed; underlying drivers remain modest, major contribution from acquisitions; Profitability up but below peak margins; Capex rate edged up**



# Global Bulk Business

*Est. 2012*



# IG Cryogenics Equipment

## *Main Markets*



### ■ **Cryogenic Tanks**

- IG Worldwide Pool: 250,000 tanks
- IG Market growing at 7,000 / yr
- Polarisation (larger and Smaller tanks)

### ■ **Cryogenic Tankers**

- IG Worldwide Pool: 17,500 Tankers (>3000 M3)
- IG Demand growing at 800 / yr

### ■ **Cryogenic LGCs**

- IG Worldwide Pool: 600,000 LGCs (>160 litre <240 litre)
- IG Market growing at 50-80,000 / yr

# LNG Cryogenics Equipment

## *Main Markets*



- **Distribution/Transport Market**
  - In US and China, now 50% of cryo equipment sales for LNG
  - Northern and southern Europe, SE Asia, Australia, SoAm
- **Synergistic equipment and uses**
- **Short-medium term opportunity**

- **Moving into v. tight supply for next 2-3 months!**
  - ExxonMobil WY off line in October
  - Qatar II production issues in coldbox (commissioned but <50% operation)
  - Skikda (Helison) no feed gas to date
  - Arzew, approx 50% operating rate (feed gas issues)
  - BLM, well down from 2.1 BNSCF output at present
  - Big Piney (AP/Matheson) ??? No feed gas as yet
- **The BLM: D-Day Approaching**
  - 7 October, ceases production due to completion of funding arrangement with US Gov't
  - Renewal of funding (Helium Stewardship Act) at US Gov't Houses but caught in general Gov't Funding debate at present

# Summary



- **2012, saw a Slowdown in Growth**
  - Volumes slowed but Prices solid
  - Cost cutting going on
- **China / Developing Economies drive plant and equipment capex**
  - Outsourcing continues, Mega Energy (CTC)
  - BUT : Some ASU re-investment needed in N America
- **LNG dictating short-term marketing focus of equipment mfrs**
  - Will play an important revenue generator over next 5-10 year
- **IG Gases Business will still show good growth next decade**



spiritus

**Thank You**

**Q&A Time!**