

September 2016

An Introduction

Demand Centers

Global Industry



### **An Introduction | Distribution Channels**

- Industrial gases encompass a large number of products that are gaseous at room temperature and pressure, and while they may actually be stored as a liquid or solid, they are commonly used in gaseous form.
- The most common industrial gases are oxygen, hydrogen, nitrogen, carbon dioxide, and noble gases such as argon, neon, xenon, and krypton.

## Distribution Channels

<u>Packaged:</u> Compressed in metal cylinders for customers

**Merchant:** Supply of gases in cryogenic tankers

**On-Site:** Direct supply to customers via pipeline

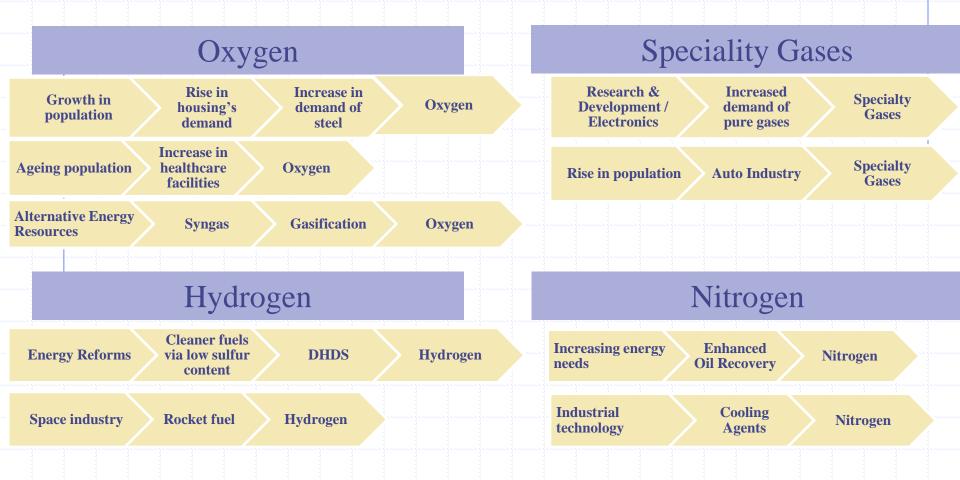
Packaged segment dominates the market and account for ~45% of the market share

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## PACR

### **Demand Centers**



• Petroleum refining segment has the largest share in the global industrial gases market followed by chemical manufacturing, food processing, pharmaceuticals, and metal processing.

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## Global Players

- The Global industrial gases market is estimated at ~ US\$ 50bln.
- The industry is expected to grow at a CAGR of ~6% with the major growth factors of rapid industrialization and increasing population.
- Asia Pacific held the largest share of ~
   39% with the greater contribution from China and India.
- Going forward, Asia pacific would continue to remain the demand centre with increasing industrial activity and economic growth
- The global market is dominated by few large players that hold more than 60% share
- Most of the large players in the industry have high margins

#### **International Players**

	(US\$ mln)	Linde Group	Air Liquide	Praxair	Air Products & Chemicals
	Revenue	19,604	16,572	10,776	9,895
~~~	Operating Profit/ (loss)	2,232	4,513	2,321	1,702
	Gross Margin	40%	40%	40%	20%
Ì	Operating Margin	10%	, , , ,		, , ,
İ	Operating ividingin	10,0	2370	2070	17,0
Į	Country of Origin	German	France	US	US

### **Regional Players**

 (US\$ mln)	Taiyo Nippon Sanso	India Glycols	Yingde Gases	
 Revenue	4,642	1,899	1,220	
 Operating Profit/ (loss)	293	(9)	289	
 Gross Margin	30%	30%	30%	
 Operating Margin	10%		20%	
 Country of Origin	Japan	India	Hong Kong	

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## **The Domestic Industry**

Manufacturer	North (tpd)	South (tpd)	West / Dedicated	Planned (tpd)	<b>Capacity Share</b>
Linde Pakistan	130	125			32%
Ghani Gases	100	100		100 (southern Region)	25%
Sharif Gases	60	-	50		14%
Agha Steel	_	60			8%
Fine Gases	100	50			19%
Others	10	10			3%
Total	400	345	50		

- The northern region has a slightly larger share (55%) in the country's overall production capacity of ~800tpd.
- The industry is dominated by few large players with the largest two representing ~58% of the total production capacity.
- The major consumption centres in the country are ship breaking industry, oil and exploration and hospitals.
- With the announcement of a third gases plant by Ghani Gases in the southern region of ~100tpd would enhance its share in the domestic market to an estimated 33%.

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### The Domestic Industry

Players	Market share		
Linde Pakistan	45%		
Ghani Gases	33%		
Sharif Gases	14%		
Fine Gases	3%		
Others	5%		

	Linde Group			Ghani Gases		
PKR (mln)	2015	2014		2015	2014	
Revenue	3,914	3,925		1,720	1,347	
Operating Profit/ (loss)	318	295		363	155	
Gross Margin	21%	18%		33%	24%	
Operating Margin	8%	7%		21%	11%	
Capacity Utilisation	61%	64%		64%	63%	

- The country's overall production capacity is in surplus to the domestic demand.
- The two large players cater for ~78% of the country demand with Linde in the leading position having a share of ~45%.
- The non-operational status of one of the large player in the northern market (Fine Gas 100tpd) enabled the industry leaders to enhance their share in the overall pie.
- Going forward, the expected uptick in the industrial activity in the southern region mainly owing to the CPEC would enhance the overall demand.

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# Thank You

Management System & Business Financial Risk Risk