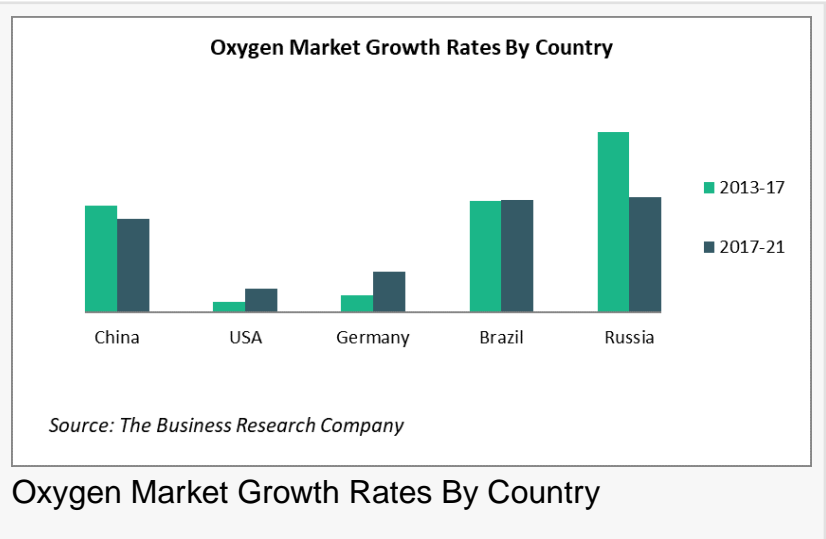


Mobile Pressure Swing Adsorption Is Boosting Industrial Oxygen Market Growth

LONDON, GREATER LONDON, UK, April 26, 2018 /EINPresswire.com/ -- The global market for industrial gases is growing at nearly 4.5% a year, [a report from The Business Research Company shows](#), a rate that has accelerated recently. One influence on the market is the use by industrial gas companies of pressure swing adsorption (PSA) technology as a cost-effective and highly efficient method to produce industrial gases. PSA systems operate on the process of static separation of ambient air (comprising oxygen, nitrogen, and other gases) using an adsorbent capable of extracting the target gas at high pressure.



For instance, mobile PSA systems are being increasingly adopted in the healthcare and hospital sectors and are slowly replacing high-pressure cylinders. Oxygen for the healthcare sector is now being produced onsite with the help of mobile PSA systems, thereby replacing the need for the delivery and storage of oxygen, thus reducing costs. These PSA systems are portable, easy to transport, and eliminate the risk associated with high-pressure cylinders. They are therefore being increasingly installed in military hospitals and ambulances. In 2015, the first PSA oxygen unit in an ambulance in China was installed. By replacing the use of oxygen cylinders in ambulances the risk of oxygen deficiency leading to loss of life because long-distance travel or traffic is reduced.

Innovative new uses are adding to the growth rates of the oxygen market in developed economies, and helping slow or stall falls in the growth rates of the market in emerging economies. A major use for oxygen is as an assist gas for laser cutting in automobile parts manufacturing. As a result, the market is growing faster in industrializing countries like China, Brazil, and Russia, the largest economies of their respective regions Asia Pacific, South America and Eastern Europe, than in the USA and Germany. In the industrializing countries, however, sales of oxygen are closely linked to the state of the overall economy, so that market growth rates in both China and Russia have slowed, particularly in Russia where the low global oil price and sanctions have impacted the economy.

By type of gas, nitrogen is the largest segment of the global industrial gas market, followed by oxygen, hydrogen and carbon dioxide in that order. However, this varies considerably by region and country. For instance, whereas nitrogen followed by oxygen are the largest segments in Asia Pacific, that order is reversed for Western Europe. Similarly, whereas China's market for nitrogen is its largest segment, in Japan, oxygen is the largest segment and accounts for a higher proportion of the total than nitrogen does in China. These variations follow from the differing importance of the end user industries in different regions and countries.

Where To Learn More

Read the [Industrial Gas Global Market Report 2018](#) from [The Business Research Company](#) for information on the following:

Markets Covered: Industrial gas market, nitrogen, hydrogen, oxygen, carbon dioxide, other industrial gases, chemicals market

Industrial Gas Companies Covered: L'Air Liquide S.A, The Linde Group, Praxair Inc., Air Products and Chemicals Inc., Taiyo Nippon Sanso Corporation

Regions: North America, Asia Pacific, Western Europe, South America, Eastern Europe, Middle East, Africa.

Countries: USA, China, Japan, Germany, Brazil, France, Italy, UK, Australia, India, Spain, Russia.

Time Series: Five years historic (2013-17) and forecast (2017-21).

Data: Industrial gas market size and growth for 7 regions and 12 countries; global regional and country industrial gases market size and growth segmented by type of gas - nitrogen, hydrogen, oxygen, carbon dioxide, other industrial gases; global, regional and country industrial gases market size and growth segmented by end user industry - manufacturing, metallurgy, chemicals, healthcare, food and beverages, other end users; global, regional and country industrial gases per capita consumption and market size as a percentage of GDP 2013-21; L'Air Liquide S.A, The Linde Group, Praxair Inc., Air Products and Chemicals Inc., Taiyo Nippon Sanso Corporation financial performance 2013-21; global chemicals market size and growth rate 2013-17 and 2017-21.

Other Information: PESTEL analysis, drivers and restraints, customer and operational insights, industrial market by country covering opportunities, industrial gas associations, investment and expansion plans, corporate tax structure and competitive landscape; Industrial gas market trends and strategies.

Sourcing and Referencing: Data and analysis throughout the report are sourced using end notes. Sources include primary as well as extensive secondary research.

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