

Propane Dehydrogenation (PDH) to Propylene Market - A Global and Regional Analysis: Focus on Technology, Derivative, End User, and Region - Analysis and Forecast, 2022-2031

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Abstracts

Propane Dehydrogenation (PDH) to Propylene Market: Industry Overview

The global propane dehydrogenation (PDH) to propylene market is projected to reach \$22,721.2 million by 2031 from \$10,314.6 million in 2022, growing at a CAGR of 9.2% during the forecast period 2022-2031.

The production of polypropylene is increasing with the growing middle-class population across the globe, especially in developing countries. In these countries, demand for plastics increased significantly for consumer goods such as kitchen utensils, food containers, apparel, area rugs, batteries, and others. Polypropylene is one of the most versatile plastics and has huge demand. Traditional methods of propylene production as a by-product include fluid catalytic cracking and steam cracking. Propylene producers as a by-product are failing to cater to increasing demand from its derivatives, prominently polypropylene. This has led to an increased gap between supply and demand since 2011. Propylene producers are adopting on-purpose propylene production technologies to fulfil the demand-supply gap caused by increased demand. Propane dehydrogenation is a process where propane is converted to propylene with the option to use the by-product hydrogen for fuel or export for other uses. A PDH unit is easily integrated at a propane source or at a downstream polypropylene production plant. Various companies are developing PDH technology to be more efficient and economical. For instance, in December 2018, KBR, Inc. developed a proprietary propane dehydrogenation (PDH) technology, K-PRO. The technology is based on the company's catalytic olefins technology, K-COT, which is a fluidized-bed technology

used for converting low-value olefinic, paraffinic, or mixed streams into high-value propylene and ethylene.

Market Lifecycle Stage

The propane dehydrogenation (PDH) to propylene market has been in its growth stage, and much has been attributed to the increasing gap between propylene demand and supply and the high efficiency of PDH technology. The ecosystem of the propane dehydrogenation (PDH) to propylene market comprises feedstock suppliers, PDH to propylene producers, propylene derivatives producers, and end users. The market is still developing, with China at the forefront, followed by other regions such as North America, the Middle East and Africa, Europe, Asia-Pacific, South America, and the U.K.

Industrial Impact

Propylene derivatives are becoming more common in several industries, including transportation, healthcare, electrical and electronics, packaging, and others. Additionally, it is anticipated that during the forecast period 2022-2031, the expansion of the packaging industry in several emerging economies, including China, India, Japan, and Europe, as well as the rising adoption of polypropylene for the automotive industry, is expected to further fuel the growth of the global market for propylene and drive the propane dehydrogenation technology market as well. The market is anticipated to benefit from the growing preference for plastics over metals, as this enables high-temperature resistance and fosters market growth.

In the automobile industry, the demand for propylene derivatives such as propylene oxide and polypropylene is rising due to the increasing number of electric vehicles that are made from lightweight materials.

Impact of COVID-19

COVID-19 pandemic has had a severe impact on almost every sector across the globe, owing to countrywide lockdown, temporary shutdown of production facilities, and the slowdown of the overall global economy. The COVID-19 pandemic had a significant impact on society, populations, and enterprises. Numerous industry sectors' growth projections have been adversely affected, while several other market participants' production levels could be unaffected and look promising. The pandemic has shown a severe adverse impact on automotive, electrical and electronics, construction, and among other industries. Furthermore, the COVID-19 epidemic-related global lockdown

led to production halts, disruptions in supply chains, and manufacturing activity, all of which had a detrimental effect on the market for propane dehydrogenation (PDH) to propylene in 2020.

Market Segmentation:

Segmentation 1: by End User

Automotive and Transportation

Construction

Packaging

Textile

Electrical and Electronics

Consumer Goods

Medical and Healthcare

Others

Based on end users, the propane dehydrogenation (PDH) to propylene market is estimated to be led by the packaging segment during the forecast period of 2022-2031.

Segmentation 2: by Technology

CATOFIN

UOP Oleflex

Fluidized Catalytic Dehydrogenation (FCDh)

Steam Active Reforming (STAR)

Fluidized Bed Technology (K-Pro)

Others

Based on technology, the propane dehydrogenation (PDH) to propylene market is estimated to be led by the UOP Oleflex segment during the forecast period of 2022-2031.

Segmentation 3: by Derivative

Polypropylene

Propylene Oxide

Acrylonitrile

Cumene

Alcohols

Acrylic Acid and Acrylates

Others

Based on derivative, the propane dehydrogenation (PDH) to propylene market is estimated to be led by the polypropylene segment during the forecast period of 2022-2031.

Segmentation 4: by Region

North America - U.S., Canada, and Mexico

Europe - Germany, France, Italy, Spain, Russia, and Rest-of-Europe

China

U.K.

Asia-Pacific and Japan - Japan, India, South Korea, ASEAN, and Rest-of-Asia-Pacific and Japan

Middle East and Africa - Saudi Arabia, U.A.E., and Rest-of-Middle-East-and-Africa

South America

In the global propane dehydrogenation (PDH) to propylene market, China and North America are anticipated to gain traction in terms of propane dehydrogenation (PDH) to propylene production, owing to the presence of the world's largest manufacturers in those regions.

Recent Developments in Propane Dehydrogenation (PDH) to Propylene Market

In March 2022, KBR and ExxonMobil Catalysts and Licensing collaborated on the advancements of propane dehydrogenation (PDH) technology. Under the collaboration, ExxonMobil's proprietary catalyst technology would be combined with KBR's proprietary K-PRO PDH technology to convert propane into propylene.

In January 2022, Hyosung Chemical started the production of propylene by PDH technology for the production of polypropylene units. Before the start-up of this plant, the polypropylene units were dependent on imported propylene.

In December 2021, GAIL (India) Ltd. announced to start its propane dehydrogenation (PDH) facility and polypropylene (PP) plant in Usar, Maharashtra, by 2024. The company has recently chosen Lummus Technology's CATOFIN process and Clariant's tailor-made catalysts for India's first PDH plant. The capacity of the plant is expected to be around 500 kilo tons per annum and will be integrated with the downstream PP unit.

In August 2019, Dow Chemical Company announced the retrofit of one of its Louisiana steam crackers with its proprietary fluidized catalytic dehydrogenation (FCDh) technology to produce on-purpose propylene. The retrofit would produce more than 100,000 tons of on-purpose propylene.

Demand - Drivers and Limitations

The following are the demand drivers for propane dehydrogenation (PDH) to propylene market:

Increasing Regulations to Promote the Use of Lightweight Materials

Rising Demand for Polypropylene in Food Packaging over Other Plastics

The market is expected to face some limitations due to the following challenges:

Volatile Raw Material Prices

Strict Government Regulations for the Plastic Industry

How can this report add value to an organization?

Product/Innovation Strategy: The product segment helps the reader understand the different technologies and derivatives involved in the propane dehydrogenation (PDH) to propylene market. The technology segment has been segmented into CATOFIN, UOP Oleflex, Fluidized Catalytic Dehydrogenation (FCDh), Steam Active Reforming (STAR), Fluidized Bed Technology (K-Pro), and others. The derivative segment has been segmented into polypropylene, propylene oxide, acrylonitrile, cumene, alcohols, acrylic acid and acrylates, and others. Moreover, the study provides the reader with a detailed understanding of the propane dehydrogenation (PDH) to propylene market based on end users, including automotive, construction, packaging, textile, electrical and electronics, consumer goods, medical and healthcare, and others. The increasing adoption of propane dehydrogenation (PDH) to propylene in advanced manufacturing technology is fuelling the growth of the market.

Growth/Marketing Strategy: The propane dehydrogenation (PDH) to propylene market has seen major development by key players operating in the market, such as business expansions, partnerships, collaborations, mergers and acquisitions, and joint ventures. The favored strategy for the companies has been business expansions to strengthen their position in the propane dehydrogenation (PDH) to propylene market. For instance, in July 2019, Borealis planned to invest in a new, world-scale propane dehydrogenation (PDH) plant located at the existing production site in Kallo (Antwerp), Belgium. The PDH

plant would have a targeted production capacity of 750,000 tons of propylene per annum.

Competitive Strategy: Key players in the propane dehydrogenation (PDH) to propylene market analyzed and profiled in the study involve propane dehydrogenation (PDH) to propylene producers and the overall ecosystem. Moreover, a detailed competitive benchmarking of the players operating in the propane dehydrogenation (PDH) to propylene market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, acquisitions, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

Propylene is a colorless, flammable, gaseous hydrocarbon obtained from petroleum, and large quantities of propylene are used in the manufacturing of resins, fibers, and elastomers. Propane dehydrogenation (PDH) technology is used to produce high-purity polymer-grade propylene from a propane-rich stream. The process comprises two steps, i.e., dehydrogenating the hydrocarbon feed and removal of the hydrogen that is being formed by a specific dehydrogenation reaction. The polypropylene segment dominated the propane dehydrogenation (PDH) to propylene market in 2021 and is the largest segment owing to growing demand from end-use industries such as automotive, electrical and electronics, medical devices, aerospace and defense, and packaging. Polypropylene is a tough, rigid plastic and is produced in a variety of molecular weights and crystallinities.

Some of the prominent producers of propane dehydrogenation (PDH) to propylene are:

Company Type 1 (by Technology): UOP Oleflex

LyondellBasell Industries Holdings B.V.

Borealis AG

Williams

Oriental Energy Co. Ltd.

Ascend Performance Materials

BASF SE

Company Type 2 (by Technology): CATOFIN

INEOS Group Limited

GAIL (India) Limited

Jinneng Science and Technology Company Limited

Shaanxi Yanchang Petroleum (Group) Co., Ltd.

Company Type 3 (by Technology): Fluidized Catalytic Dehydrogenation (FCDh)

Dow Chemical Company

Koch Industries, Inc.

Company Type 4 (by Technology): Steam Active Reforming (STAR)

Formosa Plastics Corporation

Company Type 5 (by Technology): Fluidized Bed Technology (K-Pro)

KBR Inc.

Various players are involved in the market, which has been covered in different sections of the report. Most of the players are also involved in providing custom solutions to customers.

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