

Market Study: Petrochemicals & Plastics - Iran



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Yours faithfully, Oliver Kutsch

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- **Gain new customers**
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- **Locate new procurement markets**
Recognize better or alternative sources of supply
- **Improve your understanding of your competitors**
Who exactly are your competitors - and what are their strengths and weaknesses
- **Obtain a more detailed picture of your segment**
Learn which time is the best for entering or leaving a market
- **Have a look at the future**
Find out if new investments and technologies are worthwhile and how to gain access to future markets. We also show possible market scenarios
- **Recognize opportunities and risks**
Identify opportunities and risks on your target markets in time

This study is useful for:

- Manufacturers and traders of ethylene, propylene, methanol, aromates, C4 fraction, and their Derivates
- Producers of natural gas, crude oil as well as ethane, naphtha, propane, and butane
- Producers and consumers of the plastics polyethylene (HDPE, LLDPE, and LDPE), polypropylene, PVC, polystyrene, and many others
- Associations and Institutes
- Executive board, technology and production, strategic planning, R&D, market research, marketing, sales and distribution, procurement

In this brochure you will find the following information:

- An introduction on page 3
- A summary of the table of contents on page 4
- Following this, there are example pages from the study
- Please use the form on the last page to easily order your copy or a free reading sample!

The end of economic sanctions against Iran creates a gold-rush atmosphere for many industries. The country counting 75 million inhabitants owns rich oil and gas resources and is returning to the world market. After almost ten years of isolation, there is an enormous pent-up demand of investments. Not only the market potential but also the need for information is high: Until business relations are completely normalized, many obstacles will have to be overcome. In this study, the market for petrochemical products and plastics in Iran is analyzed in detail for the first time: from raw materials such as methanol, ethylene, propylene, butadiene/ butylene and aromates, to their direct Derivates and intermediates, and to plastics such as polypropylene and polyethylene.

Considerable Increases in Capacity

Capacities and production of the petrochemical industry of the Iran were increased in the past years. In 2015, total capacity of methanol, ethylene, propylene, butadiene / butylene, aromates and the Derivates of these products amounted to 31 million tonnes. Production capacity for the production of ethylene thereby accounted for more than 23% of the total capacity. Furthermore, ethylene Derivates, such as ethylene dichloride (EDC) and ethylene glycol, accounted for almost 17% of capacity. Another 4.8 million tonnes of capacity were consumed by the three types of polyethylene plastics LDPE, LLDPE, and HDPE. In

the upcoming years, another expansion is planned. Part of this project is under construction already and is planned to be completed by 2018/19 - additional plants are being planned. Until 2023, 36 million tonnes of capacity are expected to be added.

Growing Export to Europe

Although the Iran is one of the largest domestic markets for petrochemical products in the Middle East, the focus of many Iranian companies is on export. Accounting for approx. 6.8 million tonnes, a major part of petrochemical products was exported already in 2015. We expect this volume to almost double until 2023. Methanol is the most commonly exported product - in 2015, export volume amounted to almost 3.4 million tonnes. The second most important export product was HDPE. Major part of the exports was delivered to the region Asia-Pacific, mainly to China. Although demand for imports in China is currently high, we expect growth rates to decrease in the long term. This limits the growth of export for products from Iran in the future. At the same time however, new possibilities are revealed: Especially exports to Western and Eastern Europe as well as to other Asian countries are expected to increase. To fulfill this aim, numerous constructions of petrochemical plants are supposed to be completed with the aid of foreign investors.

Profitable End of Sanctions

Due to the abolition of sanctions concerning the export

of petrochemical products in 2014, exports have been rising again. We assume that the economic situation of the Iran will improve considerably after the abolition of almost all sanctions. An important step thereby were the first easing of sanctions in January 2014 as well as the Vienna nuclear agreement in the middle of 2015. After the dismantling of the Iranian nuclear program could be confirmed according to the Vienna nuclear agreement, the United Nations and the European Union abolished their nuclear-related economic and financial sanctions against the Iran on January 16, 2016, the so-called "Implementation Day". Thus, numerous restrictions in the segments finance and energy are dropped. Financial relations are normalized like this and Iranian banks are connected to the SWIFT-system. Due to the abolition of financial and economic sanctions, we expect a partly massive increase of trade volume for various goods in the future. Presumably all industries of the Iran, from agriculture to the metal industry, will profit thereof - especially the petrochemical industry due to the high oil and natural gas deposits in the country.

1 Market data –

Overview

Capacities
Production and Trade

2 Methanol

Demand
Production and Trade
Capacities

3 Ethylene

Demand
Production and Trade
Capacities

3.1 Polyethylene – HDPE

Demand
Production and Trade
Capacities

3.2 Polyethylene – LDPE

Demand
Production and Trade
Capacities

3.3 Polyethylene – LDPE

Demand
Production and Trade
Capacities

3.4 Ethylene Dichloride (EDC)

Demand
Production and Trade
Capacities

3.4.1 Vinyl Chloride (VCM) / Polyvinyl Chloride (PVC)

Demand
Production and Trade
Capacities

3.5 Other Ethylene Derivates

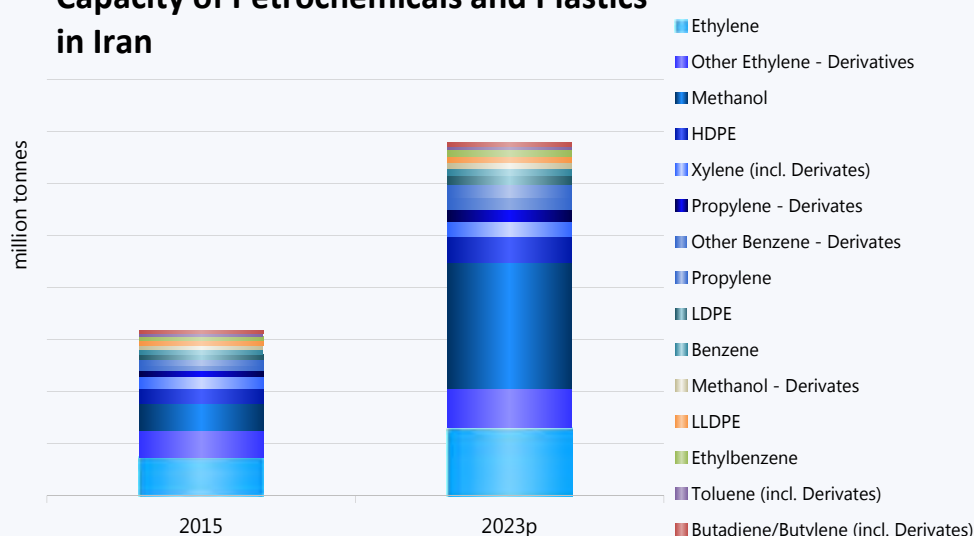
Demand
Capacities

4 Propylene

Demand
Production and Trade
Capacities

Capacity of Petrochemicals and Plastics in Iran

Ceresana



4.1 Polypropylene

Demand
Production and Trade
Capacities

4.2 Other Propylene Derivates

Demand
Capacities

5 Butadiene / Butylene

5.1 Butadiene

Demand
Production and Trade
Capacities

5.2 Butylene

Demand
Capacities

6 Benzene / Toluene / Xylene

6.1 Benzene

Demand
Production and Trade
Capacities

6.1.1 Ethylbenzene / Styrene

Demand
Production and Trade
Capacities

6.1.1.1 Polystyrene

Demand
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Polystyrene (EPS)

Demand
Production and Trade
Capacities

6.1.1.3 Acrylonitrile Butadiene Styrene (ABS)

Demand
Production and Trade
Capacities

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Demand

6.2 Toluene

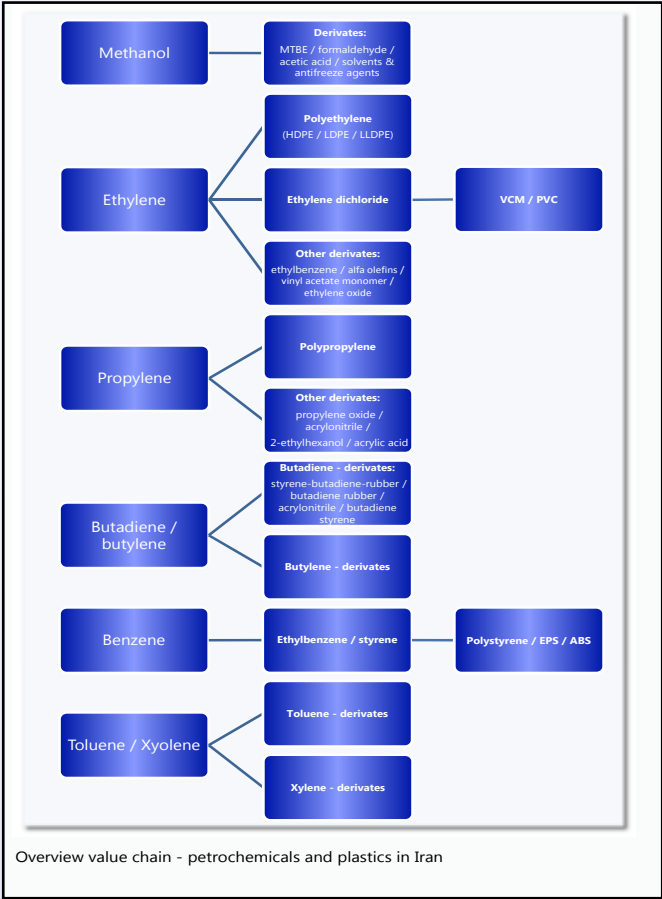
Demand
Production and Trade
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6.3 Xylene

Demand
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Capacities

7 Company Profiles

7.1 Iran (36 Producers)



3 Ethylene

Ethylene can be manufactured from a range of different feedstocks: among these are ethane, butane, propane, naphtha, and gas oil. In Iran, the ethane made from natural gas dominates with a share of 95% as primary product. For an extensive analysis of the Iranian ethylene market, examination of downstream product markets is crucial (sub-chapters 3.1 - 3.5). The most important application areas for ethylene are polyethylene – split by the types HDPE, LLDPE, and LDPE – as well as ethylene dichloride (EDC).

in 1.000 tonnes	2007	2009	2011	2013	2015	2017p	2019p	2021p	2023p	2015-2023
Production	X	X	X	X	X	X	X	X	X	X% p.a.
Export	X	X	X	X	X	X	X	X	X	X% p.a.
Import	X	X	X	X	X	X	X	X	X	X% p.a.
Demand	X	X	X	X	X	X	X	X	X	X% p.a.

Table: Market overview ethylene

Demand

Demand for ethylene in Iran amounted to X million tonnes in 2015. Consumption had thus risen by an average of X% p.a. since 2007. We expect market volume to continue to increase more slowly at an average growth rate of X% p.a., amounting to approx. X million tonnes in 2023.

In 2015, X million tonnes of ethylene were used in the production of HDPE in Iran. Thus, HDPE was by far the most important application area for ethylene. LDPE ranked second at a large distance, accounting for X tonnes. However, HDPE will remain the major growth market in the upcoming eight years at rates of X% p.a.

Chapter 1: Extensive market data from 2007 to 2023:

- Production
- Demand
- Import and Export
- Capacities

Graph: Demand for ethylene from 2007 to 2023

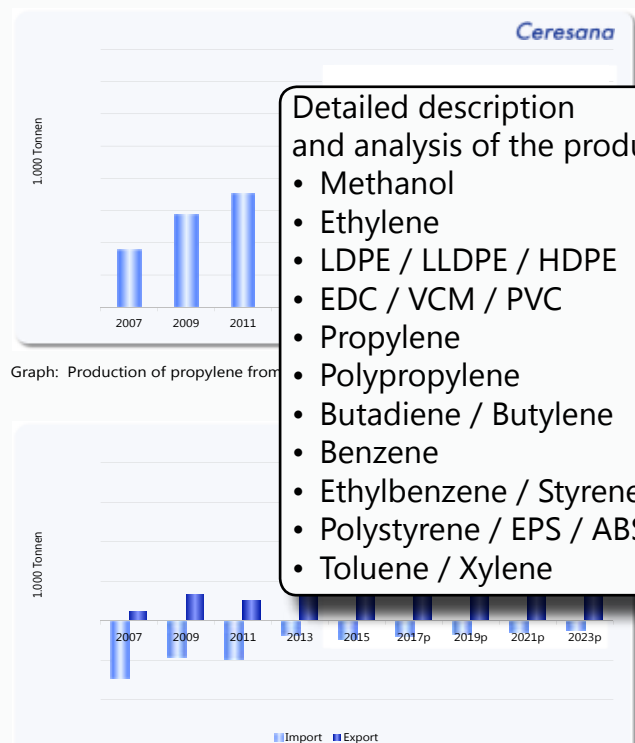
in 1.000 tonnes	2007	2009	2011	2013	2015	2017p	2019p	2021p	2023p	2015-2023
HDPE	X	X	X	X	X	X	X	X	X	X% p.a.
LDPE	X	X	X	X	X	X	X	X	X	X% p.a.
LLDPE	X	X	X	X	X	X	X	X	X	X% p.a.
EDC	X	X	X	X	X	X	X	X	X	X% p.a.
Others	X	X	X	X	X	X	X	X	X	X% p.a.
Total	X	X	X	X	X	X	X	X	X	X% p.a.

Table: Demand for ethylene from 2007 to 2023 – split by application

Production and Trade

Ethylene production accounted for X million tonnes in 2015. We forecast market volume to increase presumably by X% p.a. to approx. X million tonnes in 2023. In 2015, Iran exported about X tonnes of ethylene. Thus, export rate decreased since 2007 by X% p.a.

4.1 Polypropylene - Production and Trade



Graph: Import and export of polypropylene from 2007 to 2023

Iranian production of PP accounted for X million tonnes in 2015. We expect an output of about X million tonnes in 2023. Compared to 2015, this corresponds to an increase by an average of X % p.a. In 2015, a considerably larger amount of PP was exported than imported. Export volume is likely to increase further in the upcoming eight years and to amount to X tonnes in 2023.

Capacities

Compared to polyethylene, the polypropylene industry in Iran is relatively small. Aggregated capacity of the six manufacturers amounts to only X million tonnes at present. In the upcoming years, an expansion of this capacity by another X Tonnes is planned.

Company	in tonnes
Jam Polypropylene Co.	XXX
Marun Petrochemical Company	XXX
Navid Zar Chimi Industrial Co.	XXX
Polynar Petrochemical Co.	XXX
Regal Petrochemical Co.	XXX
Shazand (Arak) Petrochemical Company	XXX
Total	XXX

Table: Polypropylene capacity in 2015 – split by producer

Company	in tonnes	Year
Mehr Petrokimiya Company	XXX	2017
Di Arya Polymer Company	XXX	2018
Total	XXX	

Table: Changes in polypropylene capacity – split by producer

Tabriz Petrochemical Company (TPC)

Tabriz Petrochemical Complex Road
Tabriz, Azarbaijan Province
Iran

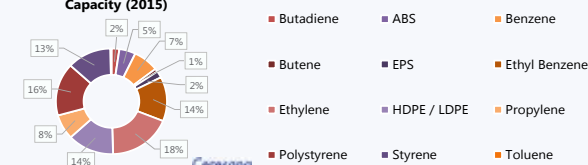
Tel.: +98 41 3428 00 00
Web: www.tpco.ir

Business Ownership



General Information about the Company

Capacity (2015)



Production Sites

The company's production site is located in:

- Tabriz, Iran

Profile Summary

Tabriz Petrochemical Company (TPC) was founded in 1988. TPC's design and engineering activities for the production complex started in the second half of 1989 and first installation works began in 1992. The complex was then built from the end of 1996 to early 1998. The total budget allocated and spent for the completion of the entire complex amounted to USD1,115 billion, which was provided by National Petrochemical Company (NPC) and the Iranian

Banking System. The complex encompasses an area of 391 hectares at an altitude of 1362 meters above the sea level and is situated in the south western part of Tabriz adjacent to Tabriz Refinery.

The company mainly produces chemical and polymer materials and the main products are Polyethylene, Polystyrene and ABS. In addition to the above mentioned petrochemicals the company manufactures C4 cut, C7-C9 cut, fuel oil and raffinate C4.

The company employs 940 people. TPC's quality, environmental and safety management system is ISO 9001, ISO 14001 and OHSAS 18001 certified.

Specific Information about Petrochemicals

Product Details The main feedstock for the complex is light naphtha (LSRG), heavy naphtha (HSRG), liquefied petroleum gas (LPG), acrylonitrile (ACN), alpha methyl styrene (AMS), mineral oil and polybutadiene rubber (PBR), which is mainly supplied by Tabriz and Tehran Refinery and other NPC complexes at southern Iran.

The following finished products are utilized in the afterwards stated applications:

LDPE/HDPE: Liquid containers, bags, plastic films, toys, home appliances

Expandable polystyrene: Ice containers, insulation, packing

General-purpose polystyrene: Pens, tooth brush, light bulb industry, refrigerators, automobiles, disposable containers

High-impact polystyrene: TV, radio and cassette player cases, refrigerator, washing machine and auto parts, home appliances, disposable containers

ABS: Monitor and typing machine cases, electronic parts, refrigerators,

telepho

Propyle

1-3 But

Toluene

Chapter 5: Data and facts on major producers, clearly arranged by:

- Contact details
- Turnover and profit
- Production sites and capacities
- Profile summary
- Product details

Expansion Projects:

TPC has commissioned and started the construction of a new high impact polystyrene (HIPS II) plant. A C4/C5 Hydrogenation Plant is also under construction. A capacity revamp of the olefins and polystyrene plants with minor modifications is planned. Furthermore, small size projects such as the toluene extraction, hexane and naphthalene production are under review and finalization. Moreover, a furnace revamp in the olefins plant, the construction of EB/SM units and the doubling of the polyethylene plant's capacity are foreseen.

Products (current)	Capacity (tonnes/year)
Butadiene	xxx
ABS	xxx
Benzene	xxx
Butene	xxx
EPS	xxx
Ethylbenzene	xxx
Ethylene	xxx
HDPE / LDPE	xxx
Propylene	xxx
Polystyrene	
Styrene	
Toluene	

Chapter 5: In-depth profiles for the largest manufacturers, including Arvand Petrochemical, Bandar Imam Petrochemical (BIPC), Esfahan Petrochemical, Fanavaran Petrochemical, Jam Petrochemical, National Petrochemical (NPC), Pars Petrochemical, and Tabriz Petrochemical (TPC).

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