Iran Petrochemical Industry

NPC





NPC Organization Chart

Ministry of Petroleum

National Petrochemical Co. (NPC)

Projects

Production Pla Control Dev

Planning & Development

Administration & Training

Finance

Iran's Proven Oil Reserves

Global Crude Oil Proven Reserves (End of 2012) 1,669 billion barrels

PC





Natural Gas Proven Reserves

Global Natural Gas Proven Reserves (End of 2012): 187.3 trillion cubic meters





Major Advantages of Iran's Petrochemical Industry

Iran has numerous advantages in petrochemical industry

Availability of colossal oil-based feedstock (world's 4th largest oil reserves)

Availability of huge gas resources containing over 10% C2+ in gas-phase (world's 2nd largest natural gas reserves)

Well-developed export & import infrastructure (ports, ...)

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Major Advantages of Iran's Petrochemical Industry

Access to international waters

Large & growing domestic market

Qualified and trained manpower

50 years of experience in petrochemical industry, the oldest in the Middle East

Rin



Major Advantages of Iran's Petrochemical Industry

Proximity & access to European and Asian markets especially the huge Indian & Chinese marketplaces

Development of metal (steel & aluminum) and other energy-intensive industries

Existence of domestic engineering and availability of contracting companies & equipment manufacturers reducing costs of projects implementation

Petrochemical Development Zones



Petrochemical Special Economic Zone

Imam Khomeini Petrochemical

Razi

Bandar Imam

(Mahshahr)

Crsian Gu



NPC





10

Assaluyeh

NPC

West Ethylene Pipeline



Capacity By the End of 2013



Iran Petrochemical Output Capacity Growth



13

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Iran Petrochemical Export & Domestic Demand



14



15

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16



New Investment Opportunities

No. of Projects	36
Design Capacity	60 Million Tons/ Yr
Saleable Products	28 Million Tons/ Yr
Value of Saleable Products	30 Billion USD/ Yr
Total Capital Investment	42 Billion USD

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PRIVATIZATION

Petrochemical industry's privatization gained momentum according to Article 44 of IRAN's Constitution.

Based on the Article, NPC, as a state-owned company has investment restriction.

Best option for private sector investment is investing in basic, mid & downstream production chain projects.



Gulf

19

ANP.C.

Iran's Share of the World and Mid East Ethylene Capacity



The international trade of **ethylene** is quite limited due to expenses associated with transportation. As a result, most ethylene that crosses international borders is in the form of derivative chemicals, such as polyethylene, ethylene glycol, and EDC.

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Iran's Share of the World and Mid East **Polyethylene** Capacity & Trade



Iran's Share of the World and Mid East Ethylene Glycol Capacity & Trade



Iran's Share of the World and Mid East Propylene Capacity



World

Middle East

International trade of propylene monomer is quite limited because of the costs of transporting highly pressurized or refrigerated liquids. Most of the propylene trade crossing international borders is in the form of derivative chemicals, such as polypropylene and acrylonytrile.

Iran's Share of the World and Mid East **Polypropylene Capacity & Trade**



Iran's Share of the World and Mid East Methanol Capacity & Trade



✤ Iran has the potential to take about 50% of global trade in 2017.

Most of methanol capacities in future projects, will be used to produce olefins through new technologies (MTO and MTP). Dec 2014



THANK

YOU