

OLEFINS



1,321,000 TPA Ethylene & 305,000 TPA Propylene Plant (10th Olefin Complex)

One of the Largest Cracking Plants in the World

This Plant delivers the largest output of Ethylene to-date in the world and is the only large capacity steam-cracker using both gas and liquid as feedstocks to produce Ethylene and Propylene.

A Leader in the Ethylene Production in Iran

More than 75% of the Iranian Ethylene production capacity (i. e. 7,612,000 TPA) is achieved through NARGAN implemented Plants.



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10th Olefin Complex (Assaluyeh)

NARGAN has utilized Technip's know-how and technical support in Olefin Projects.

1,321,000 TPA Ethylene & 305,000 TPA Propylene Plant
10th Olefin Complex (Jam PC)
Assaluyeh

1,000,000 TPA Ethylene Plant
9th Olefin Complex (Aryasol Polymer Co.)
Assaluyeh

2 x 1,000,000 TPA Ethylene Plants
11th Olefin Complex (Kavian PC)
Assaluyeh

1,000,000 TPA Ethylene Plant
14th Olefin Complex (Firouzabad PC)
(Basic & Detail Engineering Design)

1,000,000 TPA Ethylene Plant
16th Olefin Complex (Bushehr PC) - Assaluyeh
(Basic & Detail Engineering Design)

500,000 TPA Ethylene Plant
5th Olefin Complex (Morvarid PC)
Assaluyeh

485,000 TPA Ethylene Plant
13th Olefin Complex (Ilam PC)
(Detail Engineering Design)

306,000 TPA Ethylene Plant
Arak Petrochemical Complex
(Expansion Project)



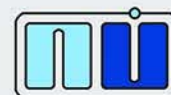
9th Olefin Complex (Assaluyeh)

POLYOLEFINS



10th Olefin Complex (Assaluyeh)

More than 45% of the Iranian Polyolefins (PE & PP) production capacity (i. e. 2,760,000 TPA) is achieved through NARGAN implemented Plants.



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160,000 TPA PP Plant (6th Olefin Complex; Mahshahr)

300,000 TPA LDPE Plant

Andimeshk Polyethylene Plant

300,000 TPA LDPE Plant

Kordestan Polyethylene Plant – Sanandaj

300,000 TPA LDPE Plant

9th Olefin Complex (Aryasol Polymer Co.)
Assaluyeh

300,000 TPA Swing LLDPE/HDPE Plant

Lorestan Polyethylene Plant – Khoramabad

300,000 TPA Swing LLDPE/HDPE Plant

Mahabad Polyethylene Plant

300,000 TPA Swing LLDPE/HDPE Plant

10th Olefin Complex (Jam PC) – Assaluyeh

75,000 TPA LLDPE Plant

Arak Petrochemical Complex
(Expansion Project)

300,000 TPA PP Plant

10th Olefin Complex (Jam PC) – Assaluyeh

300,000 TPA PP Plant

7th Olefin Complex (Maroun PC) – Mahshahr

160,000 TPA PP Plant

6th Olefin Complex (Navidzar Chimie Plant)
Mahshahr

50,000 TPA PP Plant

Tabriz Petrochemical Complex
(Polynar Corporation)

75,000 TPA PP Plant

Arak Petrochemical Complex
(Expansion Project)

More than 80% of all Polypropylene production capacity in Iran has been established by NARGAN making us the absolute authority in this field.

PETROCHEMICAL PLANTS



6th Olefin Complex (Mahshahr)

1,000,000 TPA of Methanol

550,000 TPA of Ammonia & Di-Ammonium Phosphate

400,000 TPA of Polymer & Artificial Rubbers

610,000 TPA Various Petrochemical Products

NARGAN's scope of work in petrochemical industry covers a wide range, from Ethylene, polymer production and artificial rubbers, to Ethanolamine, Methanol, Phthalic Anhydride and chemical fertilizers.



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180,000 TPA Para Xylene Plant (Mahshahr)

300,000 TPA Ammonia & 1,000,000 TPA Methanol
Integrated Plant
Assaluyeh

200,000 TPA Acrylonitrile Butadiene Styrene (ABS)
and 60,000 TPA Artificial Rubbers Plants
Styrene Park (Assaluyeh)

137,000 TPA Emulsion Styrene Butadiene Rubber
(ESBR) Plant
Styrene Park (Assaluyeh)

100,000 TPA Butene-1 Plant
10th Olefin Complex (Jam PC) - Assaluyeh

30,000 TPA Butene-1 Plant
Lorestan Polyethylene Plant - Khoramabad

30,000 TPA Butene-1 Plant
Mahabad Polyethylene Plant

40,000 TPA Phthalic Anhydride (PA) Plant
Esfahan Petrochemical Complex

20,000 TPA Crystal Melamine Plant
Khorasan Petrochemical Complex - Bojnourd

250,000 TPA Di-Ammonium Phosphate (DAP) Plant
Razi Petrochemical Complex - Mahshahr

30,000 TPA Ethanolamine Plant
Arak Petrochemical Complex

180,000 TPA Para Xylene Production Plant
Bandar Imam Petrochemical Complex (BIPC)
Mahshahr

177,000 TPA Pyrolysis Gasoline Hydrogenation (PGH) Plant
Arak Petrochemical Complex

3,500 TPA Poly-Vinyl Chloride (PVC) Film Production Plant
Qeshm Island (Persian Gulf)

Expansion of Tabriz Petrochemical Complex

CRUDE OIL REFINERIES



**1,000,000 BPSD
of Crude Oil Production Facilities**

**NARGAN has been active in the design, engineering,
procurement and construction of many Iranian oil refineries.**



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Esfahan New Refinery

Diesel (Gasoil) Hydrotreating Unit (DHDT)
Sulfur Recovery Unit (SRU)
Tail Gas Treatment Unit (TGTU)
RFCC Gasoline Hydrotreating Unit (Prime G+)
RFCC LPG Merox
H₂ Production Unit

Tehran Refinery (Expansion & Upgrading Project)

LPG Recovery Unit
Amine Treating Unit (ATU)
Sulfur Recovery Unit (SRU)
Sour Water Stripping Unit (SWS)
H₂ Production Unit
Off-Site and Utilities

Arak Shazand Refinery (Expansion & Upgrading Project)

RFCC LPG Merox
Amine Treating Unit (ATU)
Sulfur Recovery Unit (SRU)
Sour Water Stripping Unit (SWS)
Propylene Recovery Unit (PRU)

Bandar Abbas Refinery

Amine Treating Unit (ATU)
Sour Water Stripping Unit (SWS)
Kerosene Hydrotreating Unit (KHT)
LPG Splitter Units
Total Off-Gas

Tabriz Shahryar Refinery

Crude Distillation Unit (CDU)
Vacuum Distillation Unit (VDU)
LPG Recovery Unit
Diesel (Gasoil) Hydrotreating Unit (DHDT)
Naphtha Hydrotreating Unit (NHT)
Vacuum Gas Oil Hydrotreating Unit (VGO or VHDS)
CCR Reformer Unit
Fluid Catalytic Cracking Unit (FCC)
Isomerization Unit
LPG Treating Unit
Sulfur Recovery & Solidification Units (SRU & SSU)
Propylene Recovery Unit (PRU)
Amine Treating Unit (ATU)
Sour Water Stripping Unit (SWS)
H₂ Production Unit
N₂ Production Unit
Off-Site and Utilities

Kermanshah Anahita Refinery

Visbreaker Unit (VBU)

Abadan Refinery (Expansion & Upgrading Project)

Crude Distillation Unit (Revamp)
Vacuum Distillation Unit (New)
Visbreaker Unit (New)
Off-Site and Utilities

OIL INDUSTRIES



NARGAN's scope of work in oil industries covers a wide range, from field development and upstream on-shore facilities, to production units, desalting plants and crude oil refineries (Process Units, Utilities & Off-Site).



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Field Development (Surface Facilities) and Upstream On-Shore Facilities

Jofayr Oil Field Development (25,000 BPSD Crude Oil)
(Khuzestan Province)

Azar Oil Field Development
(Ilam Province)

Sirri "C, D & E" Oil Fields Development
(103,000 BPSD Crude Oil)
(Persian Gulf)

Zagros Oil Fields Development (50,000 BPSD Crude Oil)
(South-West of Iran)

Other Oil Projects

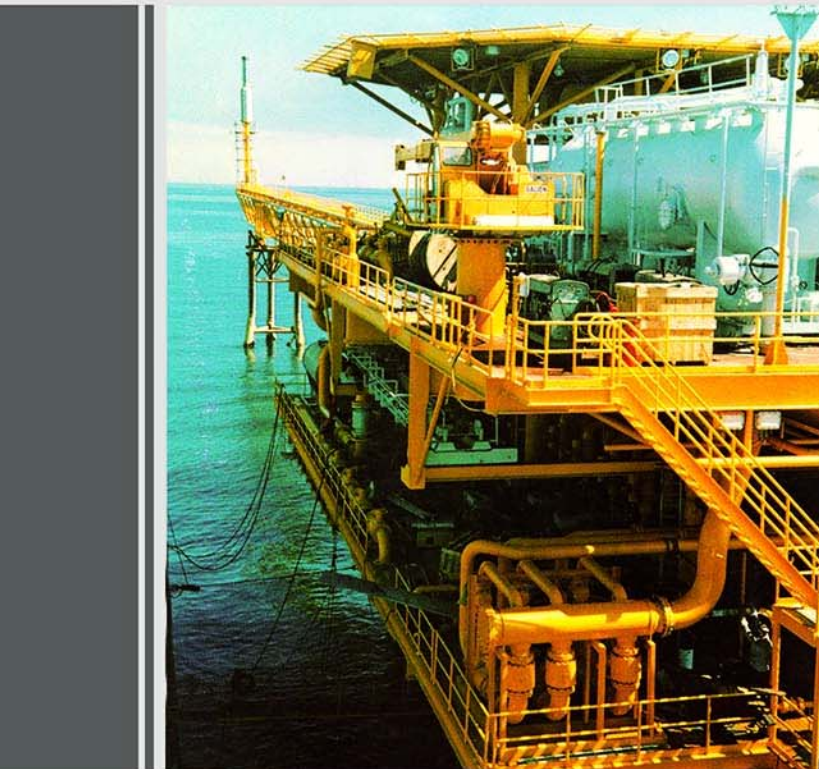
Sepahan Lube Oil Plant
(Esfahan Oil Refinery)

Caspian Base Oil Plant
(Bandar Abbas Oil Refinery)

Bahregansar On-Shore Facilities
(Reconstruction & Renovation Project)
Persian Gulf

Various Production Units and Desalting Plants
(South Oil Fields:

*Bibi-hakimiyeh, Gachsaran, Haft-gel, Karanj, Labsefid,
Naftsefid, Nargessi, Parsi, Pazanan, Ragsefid, etc.)*

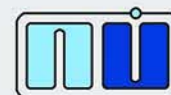


GAS SEPARATION



77 MMSCMD Ethane Recovery & Fractionation Plant (9th Olefin Complex)
Together with 1,612,000 TPA of Ethane and 1,641,000 TPA of Propane & heavier products,
which is the Largest C2 Recovery & Fractionation Plant in Iran.

**NARGAN has extensive experience in engineering and execution
of Ethane recovery and fractionation plants in Iran.**



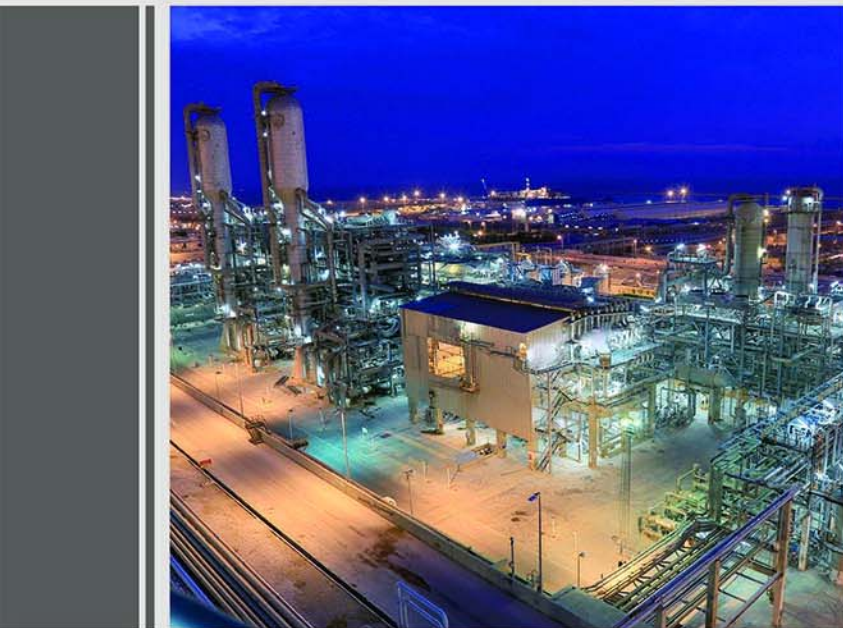
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9th Olefin Complex (Assaluyeh)

NARGAN has utilized Linde's know-how and technical support in C2 Recovery & Fractionation Projects.



C2 Recovery & Fractionation Plant

9th Olefin Complex (Pars PC) - Assaluyeh

77 MMSCMD of Gas Separation Facilities:

1,621,000 TPA of Ethane (C2)

980,000 TPA of Propane (C3)

566,000 TPA of Butane (C4)

& 95,000 TPA of C5+

C2+ Recovery & Fractionation Plant

7th Olefin Complex (Marun PC) - Mahshahr

1,909,000 TPA C2+

C2 / C3 Recovery Plant (from Fuel Gas)

Bandar Imam Petrochemical Complex - Mahshahr

173,000 TPA Ethane (C2)

50,000 TPA Propane (C3)

& 44,000 TPA Fuel Gas

GAS REFINERIES

Engineering design and construction management of the biggest gas treatment facility in Iran, called KANGAN with the capacity of 125 MMNCMD is another of NARGAN's achievements.

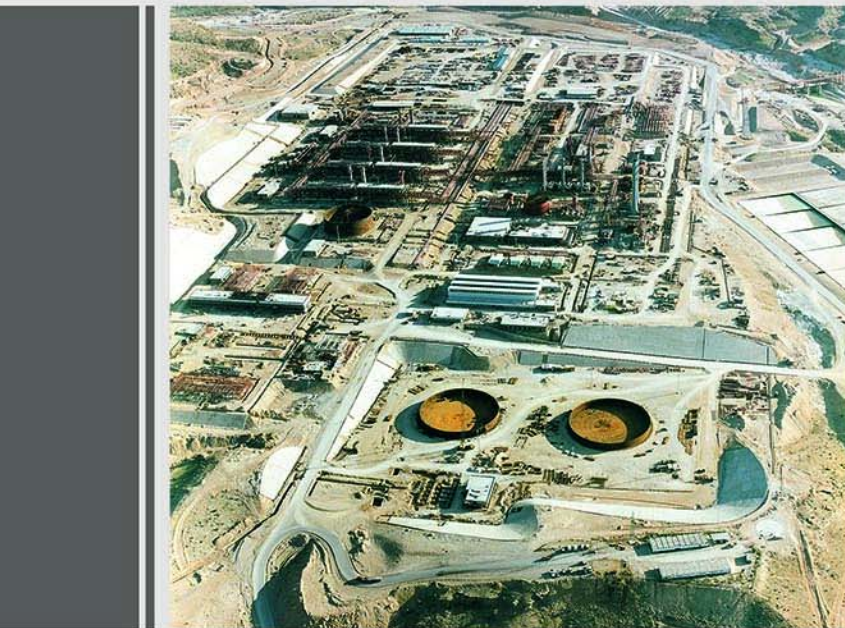


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Kangan Natural Gas Refinery
(125 MMNCMD Treated Gas)
Nar & Kangan Gas Fields



Kangan Natural Gas Project
125 MMNCMD
Kangan & Nar Fields – Fars Province

Sarkhoun II Natural Gas Project
14.4 MMNCMD
Hormuzgan Province

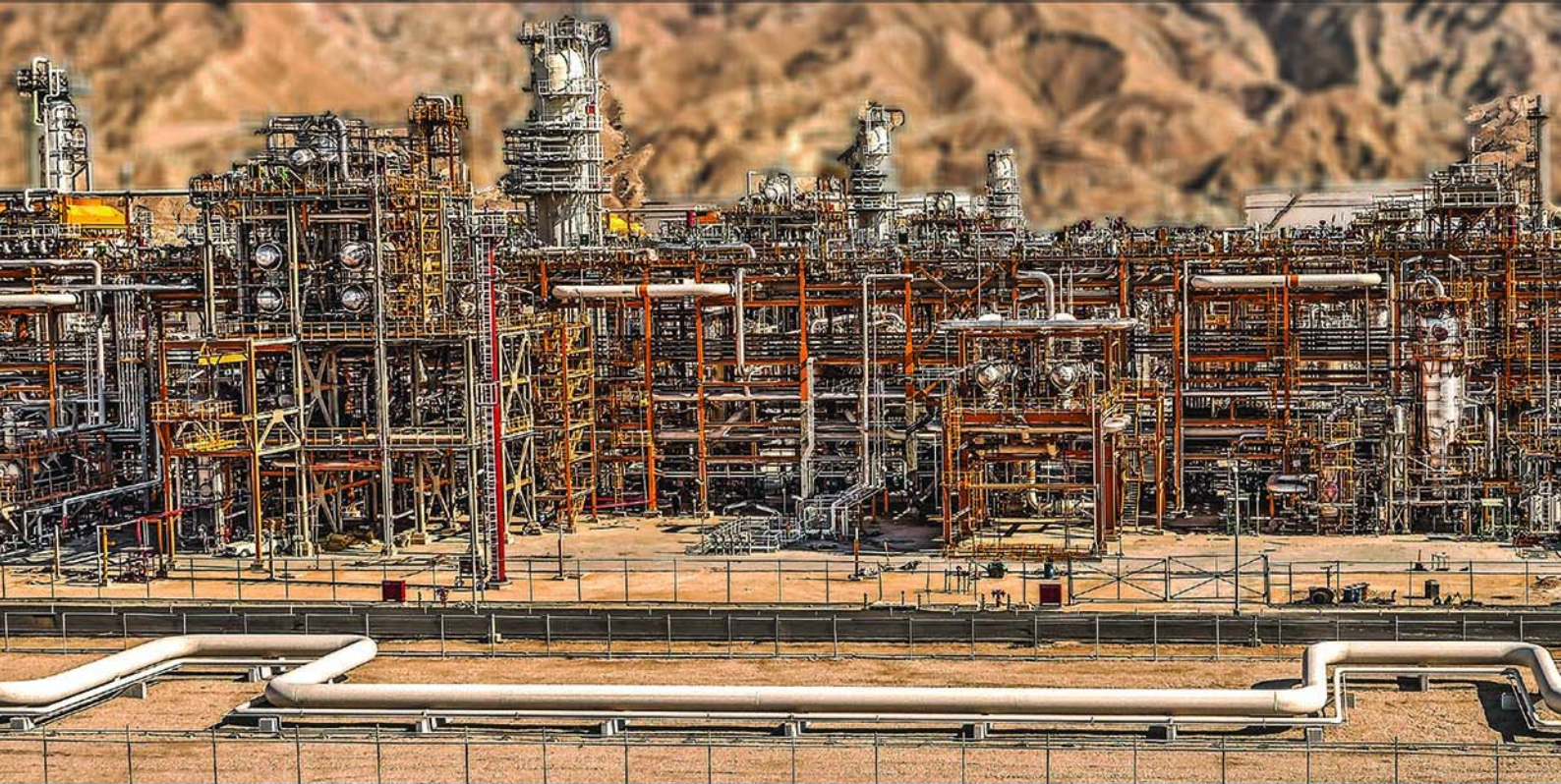
Khangiran Gas Gathering System Project
12.7 MMNCMD
Saraks Gas Field Development Plan (Phase 1)
Khorassan Province

Ramshir Gas Injection Projects
(Khuzestan Province)

South Gashoy Natural Gas Project
14.2 MMSCMD
Hormuzgan Province
(Management Consultancy Services)

SOUTH PARS GAS FIELD DEVELOPMENT

(ON-SHORE GAS PROCESSING FACILITIES)



South Pars Gas Field Development (Phase 12 - EPC 3)
81 MMSCMD Treated Gas, 120,000 BPSD Condensate
& 750 TPD Sulfur

PHASE 12 (EPC 3)

THE LARGEST INDUSTRIAL PROJECT IN ASSALUYEH

Engineering Design & Procurement Engineering Services,
Equipment & Material Supply,
Construction Works & Pre-Commissioning Services,
and Commissioning, Start-Up & Performance Test

**Over
€ 1.0
Billion
Contract Value**
(NARGAN's Share)

**More than
1,300,000
Engineering Man-Hours**



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South Pars Gas Field Development (Phase 12)

PHASE 13

50 MMSCMD Treated Gas,
1,000,000 TPA Ethane (C2),
1,100,000 TPA LPG (Propane & Butane),
80,000 BPSD Condensate
& 400 TPD Sulfur

PHASE 19

50 MMSCMD Treated Gas,
1,000,000 TPA Ethane (C2),
1,100,000 TPA LPG (Propane & Butane),
80,000 BPSD Condensate
& 400 TPD Sulfur

PHASES 15 & 16

50 MMSCMD Treated Gas,
1,000,000 TPA Ethane (C2),
1,100,000 TPA LPG (Propane & Butane),
80,000 BPSD Condensate
& 400 TPD Sulfur

PHASES 22, 23 & 24

50 MMSCMD Treated Gas,
1,000,000 TPA Ethane (C2),
1,100,000 TPA LPG (Propane & Butane),
80,000 BPSD Condensate
& 400 TPD Sulfur

**281 MMSCMD Treated Gas, 4,000,000 TPA Ethane, 4,350,000 TPA LPG,
440,000 BPSD Condensate and 2,250 TPD Sulfure,
are NARGAN's achievements in SPGFD.**

TRANSPORTATION & PIPELINE SYSTEMS



Engineering design and construction management of over 4,000 km pipeline and associated pumping / compressor stations / terminals, is another of NARGAN's achievements.



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Oil / Products Pipelines

42"/48" Crude Oil Export Pipeline

Iran Crude Oil Trunkline (Ahwaz to Genaveh)

36" Crude Oil Transfer Pipeline

Azadegan Oil Field Development (Ahwaz to Bahregansar)

26" Oil Products Transfer Pipeline

Oil Products Transfer Pipeline
(Bandar Abbas Refinery to Rafsanjan Terminal)

42" Crude Oil Transfer Pipeline

Moharam Project (South of Iran)

Gas Condensate Pipelines

16" Gas Condensate Transfer Pipeline

Assaluyeh to Shiraz Pars Refinery

8" Gas Condensate Transfer Pipeline

Dalan to Shiraz Pars Refinery

Gas Pipelines

36"/42"/48" Gas Trunkline

Pars / Aghar / Dalan (South of Iran)

42" Gas Transfer Pipeline

(NGL 1000 to Bid Boland Gas Refinery)

Feed / Products Petrochemical Pipelines

West Ethylene Transfer Pipeline

3,000,000 TPA Ethylene
(Assaluyeh to Azerbaijan Province)

C2 Recovery Pipeline

Assaluyeh

C3+ Export Pipeline

9th Olefin Complex (Aryasasol Polymer Co.) - Assaluyeh

8" Butane Transfer Pipeline

10th Olefin Complex (Jam PC) - Assaluyeh

Ethane (C2) Feed Pipeline

10th Olefin Complex (Jam PC) - Assaluyeh

4th Aromatic Feed Pipeline

Borzouyeh (Nuri) PC - Assaluyeh