



PROJECTS OF Iran's PETROCHEMICAL INDUSTRY

SEPTEMBER 2022

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by regions

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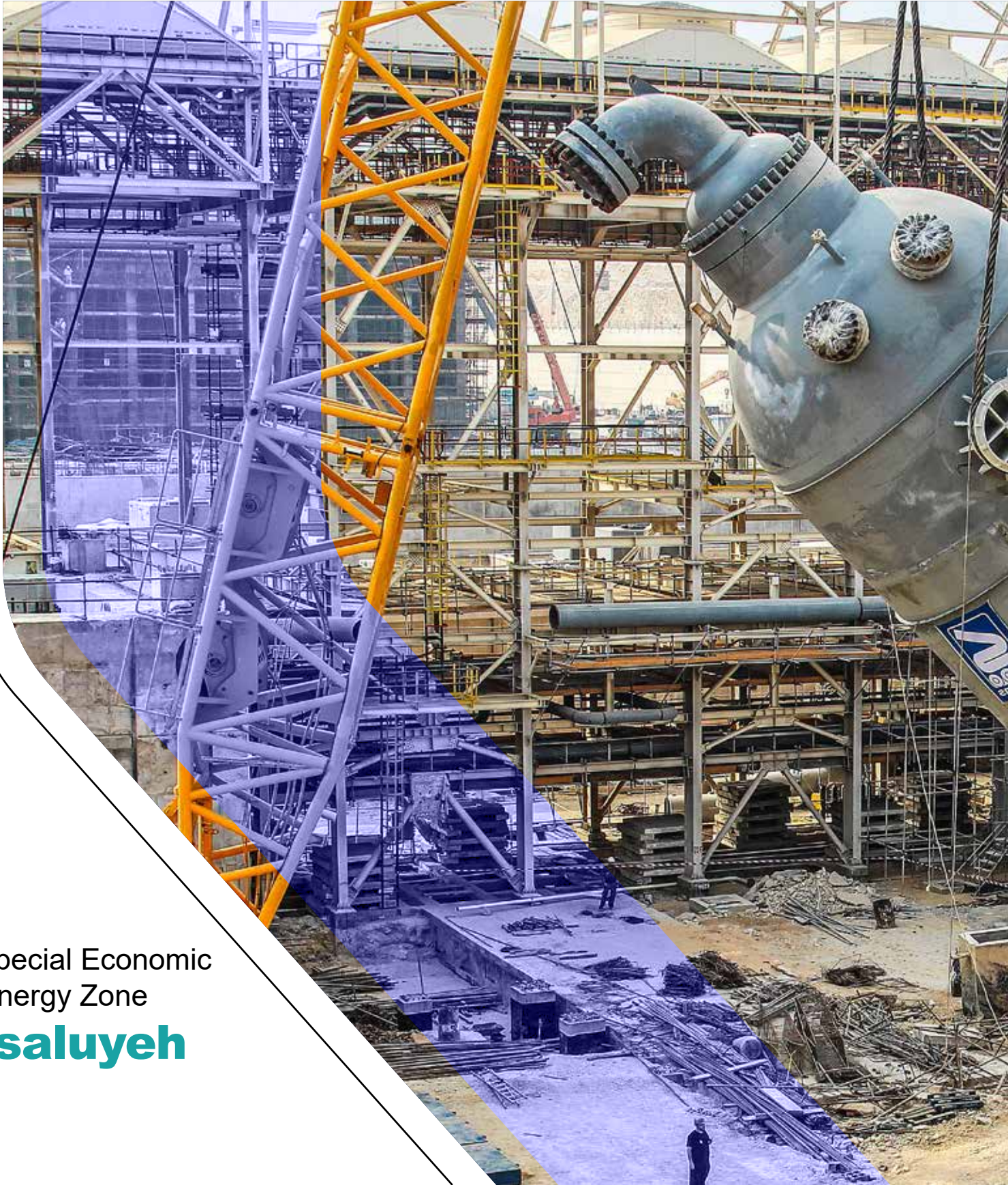


Preface

Iran's petrochemical industry is a pioneer sector in creating value-added. The private sector plays an important role in the progress of the industry. This role is supported by NPC. Access to international waterways and abundant various feedstocks in the country, provide incentives for further investment. By considering these advantages, investors are very keen on participating in



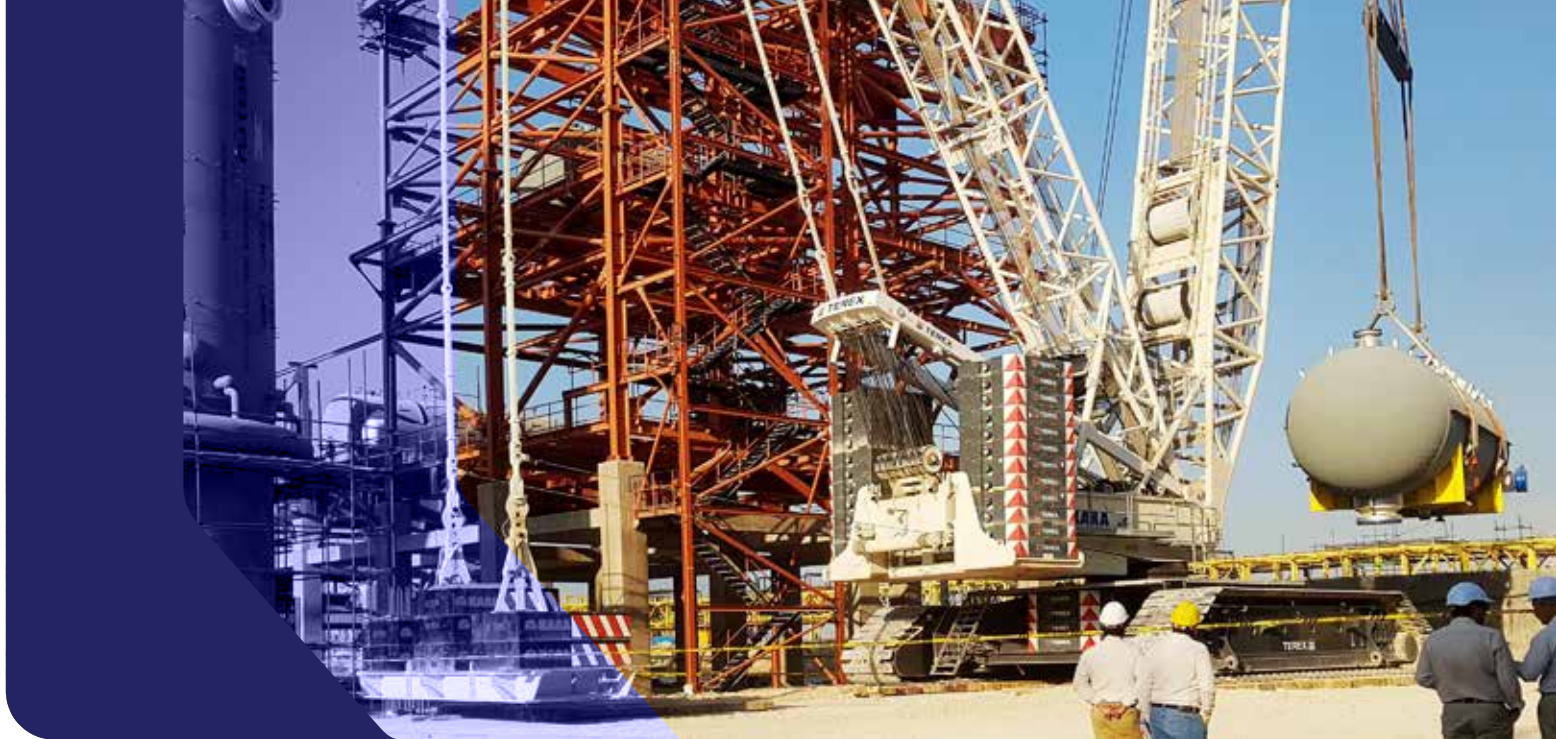
the implementation of petrochemical projects. At present, 68 petrochemical projects at different Physical progress are under construction. Iran's petrochemical output is anticipated to reach 51 million t/y by completion of these projects. Furthermore, studies are underway to establish new Petrochemical Special Economic Zones promising a sustainable development for the industry.



Pars Special Economic
Energy Zone

Assaluyeh



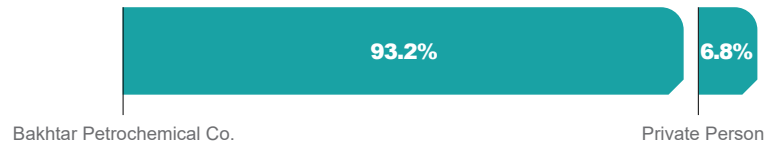


Nominal capacity (KT/Y): **554**

Pars Glycol

- **Implemented by:** Pars Glycol Co. (Private Joint Stock)
- **Location:** Pars Special Economic Energy Zone (Site 2) Assaluyeh
- **Area:** 7.33 hectares
- **Start date:** 2014
- **Projected operation date:** 2022

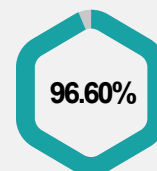
■ Ownership



Physical progress as of February 2022: 96.60%

Engineering & Procurement: Pidec, Sina Sanat Co.

License: -



Production capacity (KT/Y)

Product	Nominal capacity	Marketable
MEG	500	500
DEG	50	50
TEG	4	4

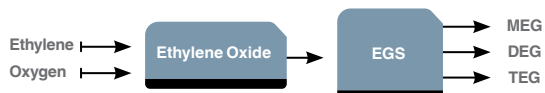
Applications

Raw material for PET production, antifreeze, dehumidifiers in refineries

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	340	Bushehr Petrochemical
Oxygen	226 (MCM/Y)	Damavand Petrochemical
Natural gas	0.02 (MCM/D)	NIGC

Production Process Diagram



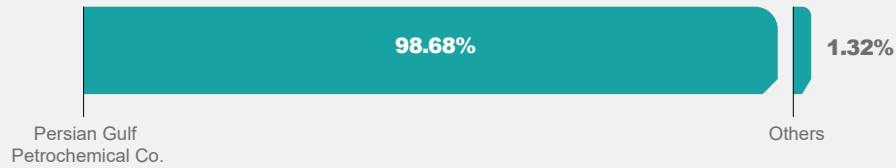


Nominal capacity (KT/Y): **725**

Hengam Petrochemical (Phase1)-Ammonia

- **Implemented by:** Hengam Petrochemical Co. (Private Joint Stock)
- **Location:** Pars Special Economic/Energy Zone (Phase 2)
- **Area:** 25.47 hectares
- **Start date:** 2016
- **Projected operation date:** 2023

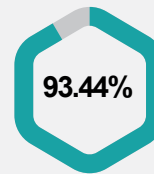
Ownership



Physical progress as of February 2022: 93.44%

Engineering & Procurement: PIDEK

License: Haldor Topsoe / SAIPEM



Production capacity (KT/Y)

Product	Nominal capacity	Marketable
Ammonia	725	125

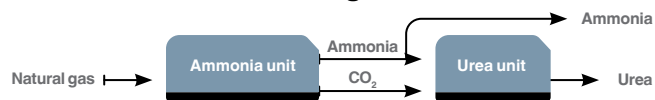
Applications

As chemical fertilizer for agricultural purposes

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	2.22	NIGC

Production Process Diagram



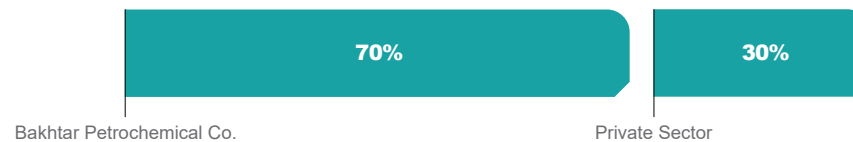


Nominal capacity (KTY): **1650**

Arian Methanol

- **Implemented by:** Arian Polymer Petrochemical Industries Co. (Private Joint Stock)
- **Location:** Pars Special Economic/Energy Zone (Phase 2)
- **Area:** 7.44 hectares
- **Start date:** 2014
- **Projected operation date:** 2022

■ Ownership



Physical progress as of February 2022: 89.50%

Engineering & Procurement: PIDEK

Construction installation contractors: -

License: Lurgi



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Methanol	1,650	1,650

Applications

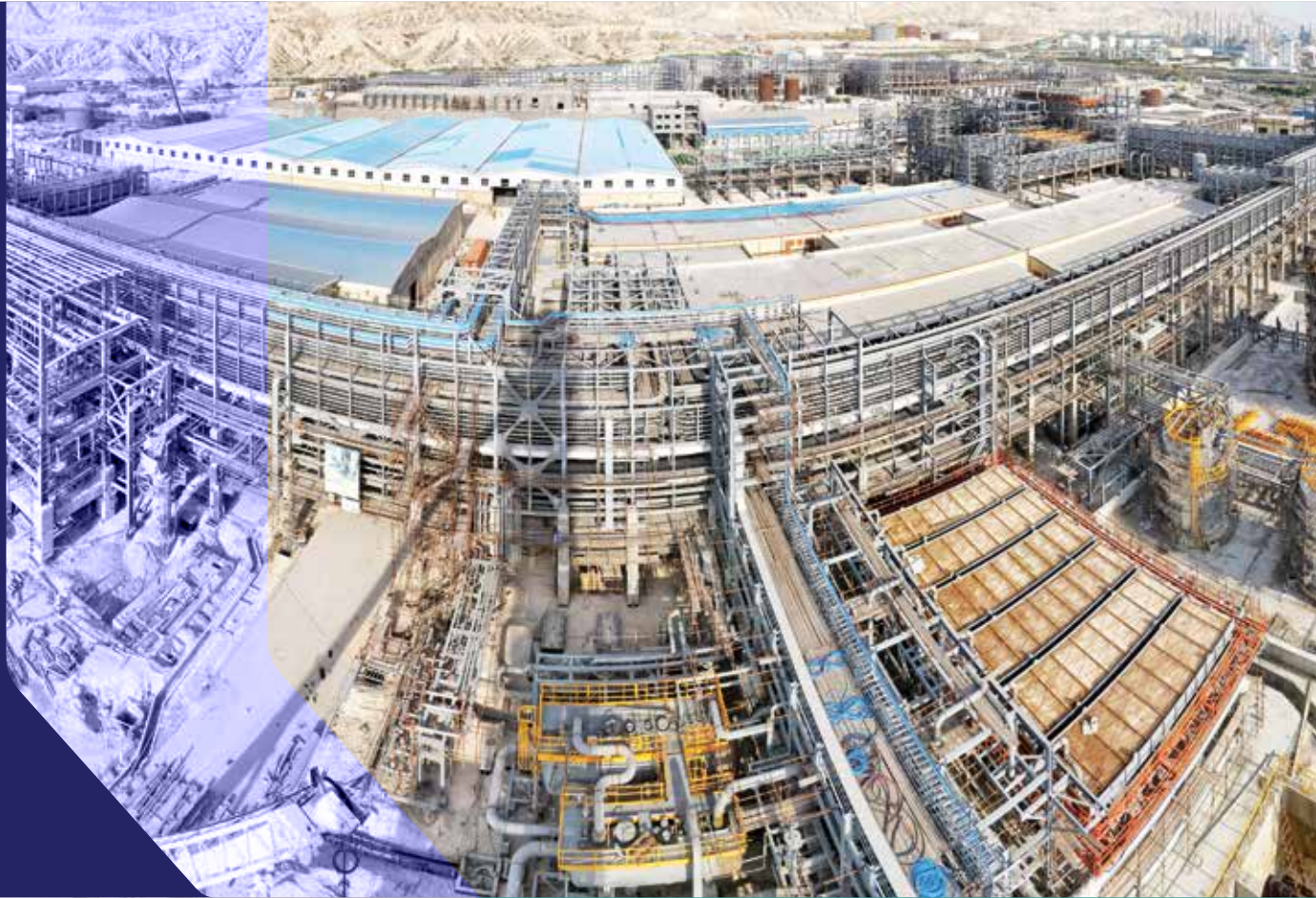
MTBE, Acetic acid and also as a solvent in downstream industries, resins, adhesives, formaldehyde, antifreeze, plastics, DME, MTP and MTO

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.77	NIGC
Oxygen	671 (MCM/Y)	Damavand Petrochemical Co.

Production Process Diagram





Nominal capacity (KT/Y): **260**

Pad Jam Polymer

- **Implemented by:** Pad Jam Polymer Expansion Co. (Private Joint Stock)
- **Location:** South Pars Special Economic /Energy Zone (Site 2)
- **Area:** 15 hectares
- **Ownership:** Civil Servants Pension Organization. (100%)
- **Start date:** 2010
- **Projected operation date:** 2024

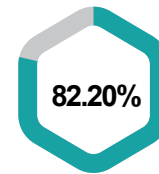
Production capacity (KT/Y)

Products	Nominal capacity	Marketable
ABS	200	200
SBS/ SB / LCSR	60	36

Physical progress as of February 2022: 82.20%

Engineering & Procurement: Tecnimont /Jondi Shapour

License: Europe Polymer Co.



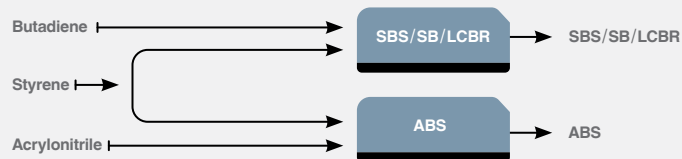
Applications

Production of auto parts, home appliances

Feedstock (KT/Y)

Feedstock	Capacity	Source
Styrene	145	Pars Petrochemical Co. /Other resources
Butadiene	54	Jam Petrochemical Co.
Acrylonitrile	48	Import

Production Process Diagram

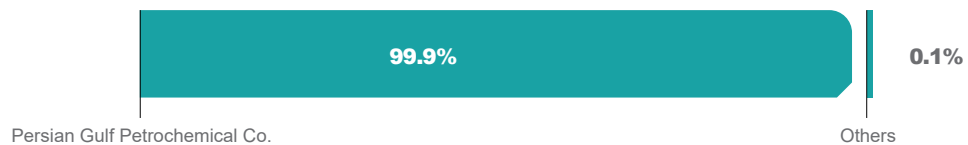




Nominal capacity (KT/Y): **1650**

Apadana Methanol

- **Implemented by:** Persian Gulf Apadana Petrochemical Industries Co. (private Joint stock)
- **Location:** Pars Special Economic/Energy Zone (Phase 2)
- **Area:** 9 hectares
- **Start date:** 2014
- **Projected operation date:** 2023
- **Ownership**



Physical progress as of February 2022: 69.23%

Engineering & Procurement: PIDEC

Construction installation contractors: -

License: CASALE



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Methanol	1,650	1,650

Applications

MTBE, Acetic acid and also as a solvent in downstream industries, resins, adhesives, formaldehyde, antifreeze, plastics, DME, MTP and MTO

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.59	NIGC
Oxygen	670 (MCM/Y)	Damavand Petrochemical Co.

Production Process Diagram



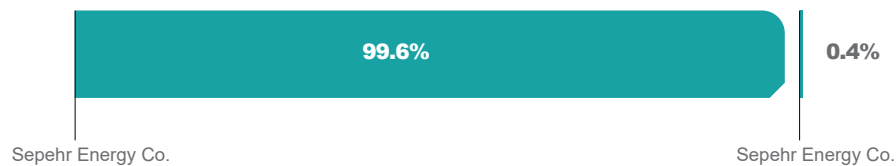


Nominal capacity (KT/Y): **1650**

Dena Petrochemical

- **Implemented by:** Dena Petrochemical Industries Co. (Private Joint stock)
- **Location:** Pars Special Economic/Energy Zone (Phase 2)
- **Area:** 7 hectares
- **Start date:** 2010
- **Projected operation date:** 2024

■ Ownership



Physical progress as of February 2022: 68.68%

Engineering & Procurement: PIDEC

Construction installation contractors: -

License: Haldor Topsoe



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Methanol	1,650	1,650

Applications

MTBE, Acetic acid and also as a solvent in downstream industries, resins, adhesives, formaldehyde, antifreeze, plastics, DME, MTP and MTO

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.48	NIGC
Oxygen	550 (MCM/Y)	Damavand Petrochemical Co.

Production Process Diagram



ESBR of Assaluyeh Sadaf

■ **Implemented by:** Assaluyeh Sadaf Chemical Co. (Private Joint Stock)

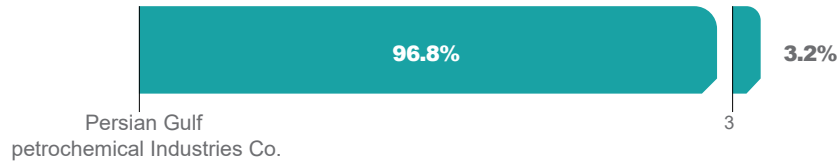
■ **Location:** South Pars Special Economic / Energy Zone (Phase 2)

■ **Area:** 8.28 hectares

■ **Start date:** 2010

■ **Projected operation date:** 2024

■ **Ownership**



Nominal capacity (KT/Y): **136**



Production capacity (KT/Y)

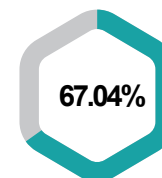
Products	Nominal capacity	Marketable
ESBR	136	136

Physical progress as of February 2022: 67.04%

Engineering & Procurement: Technimont/ Nargan

Construction installation contractors: ECC

License: Versalis (Italy)



Applications

Production of tires, cable and wire coatings

Feedstock (KT/Y)

Feedstock	Capacity	Source
Butadiene	84	Jam Petrochemical Co./Other Resources
Styrene	27	Pars Petrochemical Co./Other Resources
Ringol	35	-

Production Process Diagram



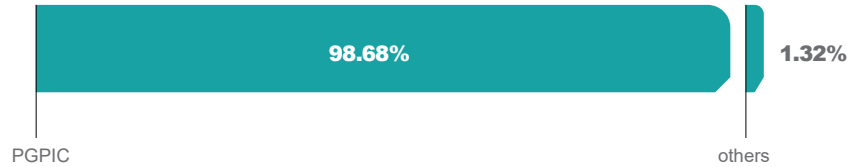


Nominal capacity (KT/Y): **1075**

Hengam Petrochemical (Phase 2) Urea

- **Implemented by:** Hengam Petrochemical Co.
- **Location:** Pars Special Economic Energy Zone (Site 2) Assaluyeh
- **Area:** 25.47 hectares
- **Start date:** 2015
- **Projected operation date:** 2024

Ownership



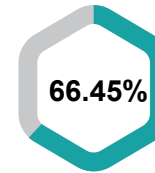
Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Urea	1075	1075

Physical progress as of February 2022: 66.45%

Engineering & Procurement: PIDEK

License: Haldor Topsoe



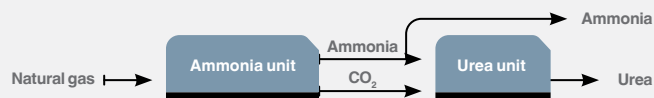
Applications

As chemical fertilizer for agricultural purposes

Feedstock (KT/Y)

Feedstock	Capacity	Source
Ammonia	600	Hengam Petrochemical (Phase 1)

Production Process Diagram



Bushehr Petrochemical Olefin and Methanol (Phase 2&3)

- **Implemented by:** Bushehr Petrochemical Co. (Private Joint Stock)
- **Location:** South Pars (Phase 2) & Pars Special Economic/ Energy Zone (Site 2)
- **Start date:** 2012
- **Projected operation date:** (Phase 2) 2023 - (Phase 3) 2026

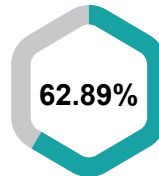
Nominal capacity (KT/Y): **1,854**



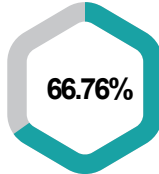
Ownership



Physical progress as of February 2022(Phase 3):
10%



Physical progress as of February 2022(MEG):
62.89%



Physical progress as of February 2022(Olefin):
66.76%



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethylene **	1000	350
C **	85	85
Ethylene glycols **	554	554
HDPE/LDPE ***	300	300

** Products of phase 2

*** Products of phase 3

Fuel & Feedstock (Total for Boushehr Complex)

Feedstock	Capacity	Source
Rich sour gas	9.17 (MMSCM/D)	South Pars Gas Refinery
Oxygen	801 (MMSCM/Y)	Damavand Petrochemical Co.
Butene -1	11 (KT/Y)	Jam Petrochemical Co.
Hexene- 1	5 (KT/Y)	Imported
Ethane	400 (KT/Y)	South Pars Gas Refinery
Natural gas	1.43 (MCM/D)	NIGC

Feedstock (phase 2&3)(KT/Y)

Feedstock	Capacity	Source
Ethane	400	Phase 13 of South Pars
Oxygen	131 (MCM/Y)	Damavand Petrochemical Co.
1-Hexene	5	Imported

License: Casale (Methanol), Petrochemical Research & Technology (HDPE)

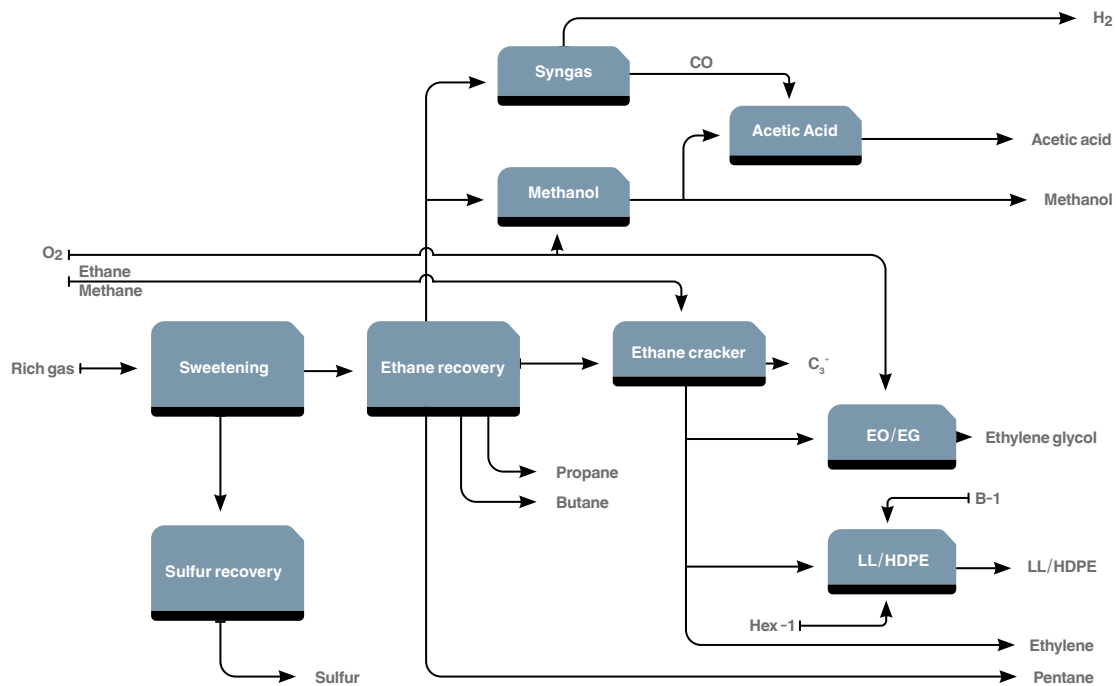
Basic and Detailed Engineering, Procurement and Equipment Purchasing: Olefin unit: Sazeh contribution and Sazeh Pad, Ethylene Glycol unit: Chegalesh contribution, Enerchimi and Steam, Utility and offsite unit: Japan Pars

Construction installation contractors: Sokaf, Azar Simab, Kandovan Pars, Zamiran, Asphalt Toos & Kason

Applications

Feedstock for production of polyesters, VA, MTBE, resins, adhesives, cable & wire coatings, plastic parts, anti-freeze, various films

Production Process Diagram



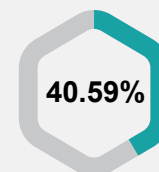


Nominal capacity (KT/Y): **120**

Dalahou Polystyrene

- **Implemented by:** Dalahoo Kimiya Industry Co. (Private Joint Stock)
- **Location:** South Pars Special Economic / Energy Zone (Site 2)
- **Area:** 3.75 hectares
- **Ownership:** Ahdaf (100%)
- **Start date:** 2011
- **Projected operation date:** 2025

Physical progress as of February 2022: 40.59%
Engineering & Procurement: Tabriz Petrochemical Co., Firmko
License: Styrochem (Finland)



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polystyrene	120	120

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
tyrène	110	Pars Petrochemical Co.
Polybutadiene rubber	6	Other Sources
Ethylbenzene	4	Pars Petrochemical Co.
Natural gas	0.02 (MCM/D)	NIGC



Nominal capacity (KT/Y): **1,300**

Lavan Methanol/Ammonia

- **Implemented by:** Lavan Industry Development Co. (Private joint stock)
- **Location:** Pars Special Economic/Energy Zone (Site 2)
- **Area:** 8.65 hectares
- **Ownership:** Private sector (100%)
- **Start date:** 2013
- **Projected operation date:** 2024

Production capacity (KT/Y)

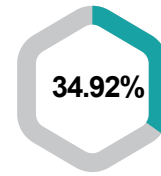
Products	Nominal capacity	Marketable
Methanol	1000	1000
Ammonia	300	300

Physical progress as of February 2022: 34.92%

Engineering & Procurement: Nargan

Construction installation contractors: Boniz Sazeh

License: Haldor Topsoe



Applications

MTBE, Acetic acid and also as a solvent in downstream industries, resins, adhesives, formaldehyde, antifreeze, plastics, DME, MTP, MTO and fertilizers

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	3.46	NIGC



Kian Olefin and Downstream Chain

■ **Implemented by:** Kian Petrochemical Co. (Private Joint Stock)

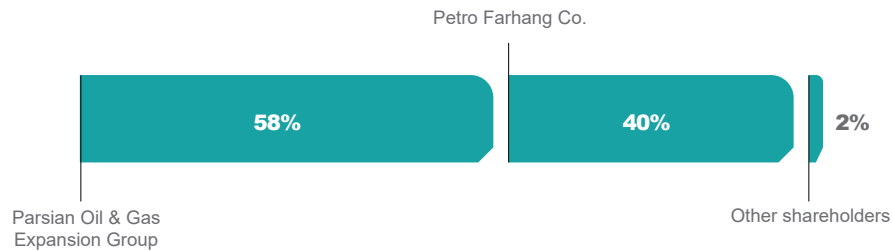
■ **Location:** Pars Special Economic / Energy Zone (Phase 2)

■ **Area:** 74.62 hectares

■ **Start date:** 2012

■ **Projected operation date:** 2026

■ Ownership



Nominal capacity (KT/Y): **5,788**



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethylene	1260	686
Propylene	327	37
Benzene	202	0
Ethyl benzene	276	0
Styrene	266	266
Propylene oxide	150	150
Butadiene	176	176
Pyrolysis gasoline	295	0
Raffinate C4	133	0
C4	310	0
Raffinate	18	0
HDPE	500	500
Oxo alcohol	250	250
Mazut	71	71

Physical progress as of February 2022: 15.69%

License: Lindeh

15.69%





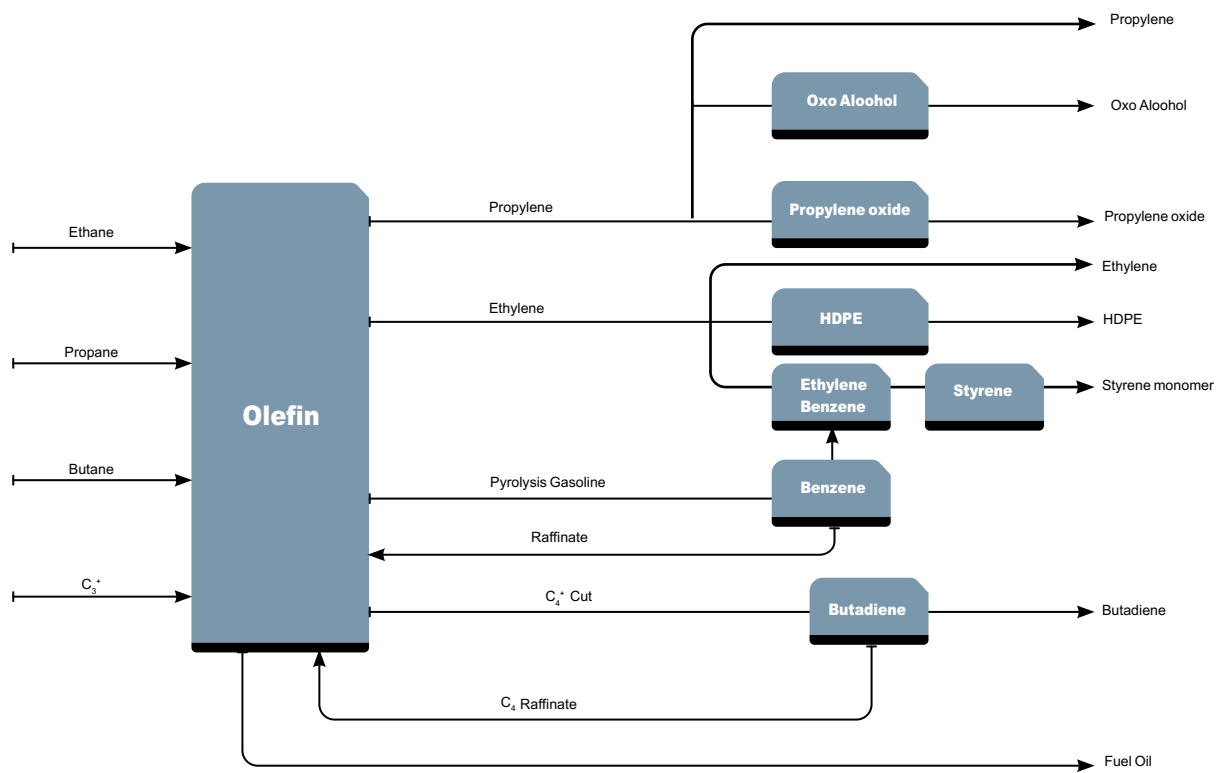
Applications

Feedstock for various downstream industries in production of polyolefin, polystyrenes, acetone, phenol, polyester, PTA, paint industry, as solvent in chemical industry & softeners

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Hydrogen peroxide	187	Other Sources
C ₃ +	315	Kavian, Marwarid & Bushehr Petrochemical
Ethane	900	South Pars Refinery
Propane	538	South Pars Refinery
Butane	753	South Pars Refinery
Natural gas	0.77 (MCM/D)	NIGC

Production Process Diagram





Nominal capacity (KT/Y): **905**

PDH/PP Mehr Kimia Petrochemistry

- **Implemented by:** Mehr Kimia Petrochemical Co.
- **Location:** Pars Special Economic Energy Zone (Assaluyeh)
- **Area:** 24.49 hectares
- **Start date:** 2019
- **Projected operation date:** 2025

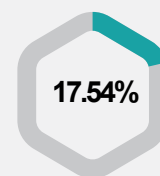
Ownership



Physical progress as of February 2022: 17.54%

Engineering & Procurement: -

License: UHDE PP, PDH & MITSUI



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Propylene	455	-
Polypropylene	450	450

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propane	560	South Pars Refinery
Natural gas	0.416 MCM/D	NIGC

Rayan Polymer Pouya Polyethylene

- **Implemented by:** Rayan Pouya Polymer Co.
- **Location:** Pars Special Economic/ Energy Zone (Assaluyeh)
- **Area:** 15 hectares
- **Ownership:** Bakhtar Petrochemical Co. (100%)
- **Start date:** 2019
- **Projected operation date:** 2026

Nominal capacity (KT/Y): **300**



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
HDPE	300	300

Physical progress as of February 2022: 12.66%

Product: HDPE

-

Construction installation contractors: -

License: Haldor Topsoe



12.66%

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	305	Kavian Petrochemical Co.
Natural gas	0.293 MCM/D	NIGC



Nominal capacity (KT/Y): **300**

Farsa Chemistry PET

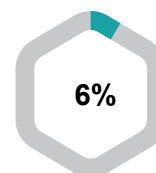
- **Implemented by:** Farsa chemistry Co.
- **Location:** Pars Special Economic/ Energy Zone (Assaluyeh)
- **Area:** 11.47 hectares
- **Ownership:** Private sector (100%)
- **Start date:** 2018
- **Projected operation date:** 2026

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
PET	117	117
PET Fiber	150	150
PET Film	33	33

Physical progress as of February 2022: 6%

License: CNTIEC & CKCEC



Feedstock (KT/Y)

Feedstock	Capacity	Source
PTA	255	Imported
MEG	100	Internal Resources
Natural gas	0.063 MCM/D	NIGC



Nominal capacity (KT/Y): **300**

Arya sasol Polyethylene (Phase2)

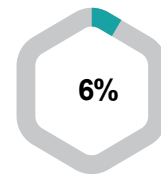
- **Implemented by:** Arya sasol Polymer Co.
- **Location:** Pars Special Economic Energy Zone (Assaluyeh)
- **Ownership:** AryaSasol (100%)
- **Start date:** 2019
- **Projected operation date:** 2025

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
HDPE	300	300

Physical progress as of February 2022: 6%

License: lyondellbasell



Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	292	inter - complexes
1- Butene	10	Jam Petrochemical





Nominal capacity (KT/Y): **1000**

Pars PDH/PP

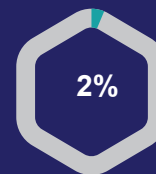
- **Implemented by:** Pars petrochemical Co.
- **Location:** Pars Special Economic / Energy Zone (Site 2)
- **Area:** 26.65 hectares
- **Ownership:** Persian Gulf Petrochemical (100%)
- **Start date:** 2021
- **Projected operation date:** 2026

Physical progress as of February 2022: 2%

Engineering & Procurement: -

Construction installation contractors: -

License: -



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Propylene	600	200
Polypropylene	400	400

Applications

Propylene Polypropylene

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propane	700	Pars Petrochemical Co.
Natural gas	0.3 MCM/D	NIGC



Nominal capacity (KT/Y): **1060**

Tadbir PDH & Downstream Chain

- **Implemented by:** Tadbir Energy Co.
- **Location:** Assaluyeh (Phase 2)
- **Area:** 30.65 hectares
- **Start date:** 2023
- **Projected operation date:** 2027

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polypropylene	300	300
Propylene	450	50
Super absorbent polymer	170	170
PMMA	140	8

Physical progress as of February 2022: The project has not started yet


Engineering & Procurement: -

License: -

Feedstock (KT/Y)

Feedstock	Capacity	Source
propane	536	Parsian Sepehr Refinery





Petrochemical Special
Economic Zone

Mahshahr



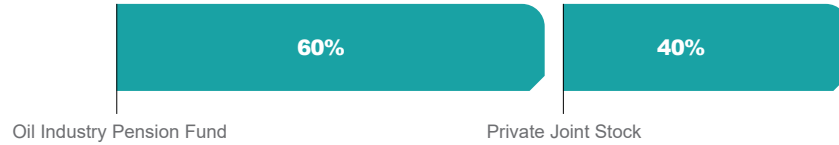
Nakhl Asmari Petrochemical (Shahid Rasouli) (Phase 2)

- **Implemented by:** Nakhl Asmari Petrochemical Co. (Phase 2)
- **Location:** Petrochemical Special Economic Zone (Mahshahr)
- **Area:** -
- **Start date:** 2001
- **Projected operation date:** 2024

Nominal capacity (KT/Y): **28.9**



Ownership



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Acetaldehyde	5.6	0
Pentaerythritol	15	15
DiPentaerythritol	0.5	0.5
Sodium formate	7.8	7.8

Physical progress as of February 2022: 72.17%

Engineering & Procurement: -

Construction installation contractors: -

License: -

72.17%

Applications

Acetaldehyde and Pentaerythritol

Feedstock (KT/Y)

Feedstock	Capacity	Source
Formaldehyde	36	Shahid Rasouli Petrochemical Co.
Sodium hydroxide 48.5%	28.6	Arvand Petrochemical Co.
Ethanol	6.7	Other resources

PDH project of Salman Farsi

- **Implemented by:** Salman-e-Farsi Petrochemical Co. (Private Joint Stock)
- **Location:** Mahshahr Petrochemical Special Economic Zone
- **Area:** 16 hectares
- **Start date:** 2010
- **Projected operation date:** 2023

Nominal capacity (KT/Y): **450**



Ownership



Production capacity (KT/Y)

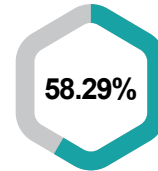
Products	Nominal capacity	Marketable
Propylene	450	450

Physical progress as of February 2022: 58.29%

Engineering & Procurement: PIDE C

Construction installation contractors: -

License: UOP



Applications

Feedstock for polypropylene, phenol, acrylonitrile units & ...

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propane	560	Bandar Imam Petrochemical Co.
Natural gas	0.84 MCM/D	NIGC

Production Process Diagram

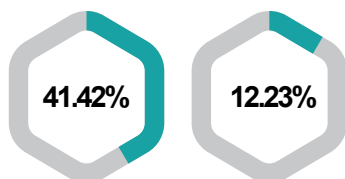




Nominal capacity (KT/Y): **115**

Petronade Asia Petrochemical (Phase1&2)

- **Implemented by:** Asia Petronad Petrochemical Co. (private Joint stock)
- **Location:** Special Economic/Energy Zone Mahshar (site 2)
- **Area:** 14.3 hectares
- **Ownership:** Kimiagaran Chemical Industries (Private Joint Stock) 100%
- **Start date:** 2014
- **Projected operation date:** 2024-2027



Physical progress as of February 2022 (Phase1): 41.42%

Physical progress as of February 2022 (Phase2): 12.23%

Engineering, Procurement and pre-Installation: EIED, OTC, OIEC, Ehsad, Fara-Nirou, ICC

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Methyl diethanolamine and ethanolamines	18	18
Ethoxylates	80	65
Sulphonation	29.75	29.75
Medicinal glycerin	17	17
Glycols	10	10
Choline chloride	7.5	7.5
Ethylene oxide	45	6



▀ Applications

Oil and gas up-stream industries for dehydration and sweetening of gas, detergent industries, cosmetics and health industries, food and pharmaceuticals, paint and resin production, leather industry, anti-freeze industry and etc.



Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene oxide	40.5	Petrochemical complexes
Raw glycerin	19.8	Imported
Raw alcohol	12.9	Imported
Monomethylamine	0.9	Imported
LAB	3.05	Isfahan and Bisotoun Petrochemical Cos.
Sulfur	2.5	South Pars
MEG off grade	12	Marun, Shazand, Morvarid and FarsaShimi Petrochemical Cos
Ethylene	35	Petrochemical complexes
Ammonia	3.6	Petrochemical complexes
Natural gas	0.02 (MCM/D)	NIGC
Oxygen	26	Fajr Petrochemical Co.
Trimethylamine	3	Imported

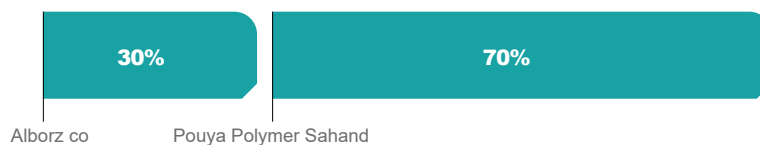
Hirsa Sahand Polymer PDH/PP

- **Implemented by:** Hirsa Sahand Polymer Co.
- **Location:** Mahshahr Special Economic/ Energy Zone
- **Area:** 18 hectares
- **Start date:** 2016
- **Projected operation date:** 2025

Nominal capacity (KT/Y): **600**



Ownership



Production capacity (KT/Y)

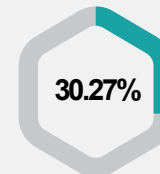
Products	Nominal capacity	Marketable
PP	300	300
propylene	300	-

Physical progress as of February 2022: 30.27%

Engineering & Procurement: -

Construction installation contractors: -

License: Rezel Catalysts ,Beijing Scienpark Chemical Engineering



Applications

-

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propane	355	NGL 3200
Natural gas	0.2 (MCM/D)	NIGC



Nominal capacity (KT/Y): **291**

Seraj Gostarane Rejal Polypropylene

- **Implemented by:** Development Rejal Gošaran Co.
- **Location:** Petrochemical Special Economic Zone (Mahshahr)
- **Area:** 10 hectares
- **Ownership:** Private sector (100%)
- **Start date:** 2022
- **Projected operation date:** 2024

Physical progress as of February 2022: 18%

Engineering & Procurement: -

Construction installation contractors: -

License: AVIC (China)



▀ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
PP	291	291

▀ Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propylene	300	Salman Farsi Petrochemical Co.
Natural gas	0.045 MCM/D	NIGC



Nominal capacity (KT/Y): **76.80**

Modabberan Anhydride Maleic

- **Implemented by:** Modabberan Shimi Co.
- **Location:** Mahshahr
- **Area:** 4.5 hectares
- **Ownership:** Tadbir (100%)
- **Start date:** 2022
- **Projected operation date:** 2027

Physical progress as of February 2022: 12%

Engineering & Procurement: -

Construction installation contractors: -

License: -



▀ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Maleic anhydride	20	12.9
Fumaric acid	4	4
Isobutane	15.80	15.80
Polyester resin	15	15
Butane	22	0

▀ Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Butane	40	BIPC
Natural gas	0.026 MCM/D	NIGC



Nominal capacity (KT/Y): **75**

Damoon Palayesh Giti

- **Implemented by:** Damoon Palayesh Giti Co.
- **Location:** Petrochemical Special Economic Zone (Mahshahr)
- **Ownership:** Private sector (100%)
- **Projected operation date:** 2026

Production capacity (KT/Y)

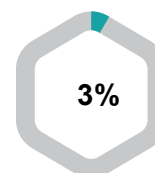
Products	Nominal capacity	Marketable
Benzene	34.2	34.2
Petrol	32	32
Toluene	7.6	7.6
CFO	4	4

Physical progress as of February 2022: 3%

Engineering & Procurement: -

Construction installation contractors: -

License: -



Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Pyrolysis gasoline	80	BIPC
Natural gas	0.0242 MCM/D	NIGC

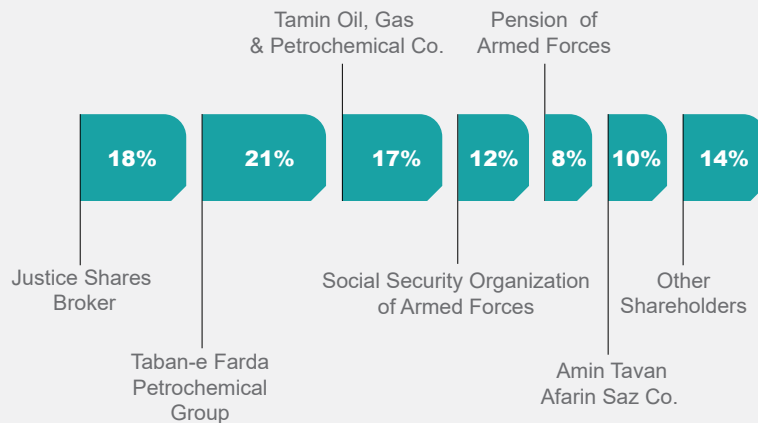


Nominal capacity (KT/Y): **45**

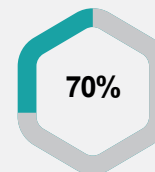
Marun Petrochemical -Ethylene oxide

- **Implemented by:** Marun Petrochemical Co.
- **Location:** Petrochemical Special Economic Zone (Mahshahr)
- **Area:** 102.5 hectares
- **Start date:** 2021
- **Projected operation date:** 2023

Ownership:



Physical progress as of February 2022: 70%



Production capacity (KT/Y)

Product	Nominal capacity	Marketable
Pure ethylene oxide	45	45

Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene oxide	45	inter - complexes



Nominal capacity (KT/Y): **50**

South Technical & Engineering Project Polyoxymethylene

- **Implemented by:** South Technical and Engineering Co.
- **Location:** Petrochemical Special Economic Zone (Mahshahr)
- **Ownership:** Private sector (100%)
- **Start date:** 2021
- **Projected operation date:** 2026

▀ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polyacetal	30	30
Formaldehyde	20	0

Physical progress as of February 2022: The project has not started yet

Engineering & Procurement: -

Construction installation contractors: -

License: -

▀ Feedstock (KT/Y)

Feedstock	Capacity	Source
Methanol	42	Fanavaran Petrochemical Co.
Ethylene glycol	1.110	Fanavaran Petrochemical Co.



Feedstock
Supply Projects
KANGAN

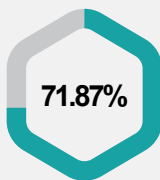




Nominal capacity (KT/Y): **1,089**

Kangan Olefin (Kangan Petrochemical Development)

- **Implemented by:** Kangan Petro-Refinery Co. (Public Joint stock)
- **Location:** Pars Special Economic Energy Zone - Kangan
- **Area:** 15 hectares
- **Ownership:** Ahdaf Investment Co.(100%)
- **Start date:** 2016
- **Projected operation date:** 2024



Physical progress as of February 2022: 71.87%

Engineering & Procurement: Bakhtar Industry Development Management / EIED

License: Mitsui, Lyondell

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethylene	1000	1000
C ₃ +	89	89

Applications

Feedstock for olefin units and other petrochemical units

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethane	1270	Kangan Petrorefining Company
Natural gas	1.3 (MCM/D)	NIGC

Production Process Diagram



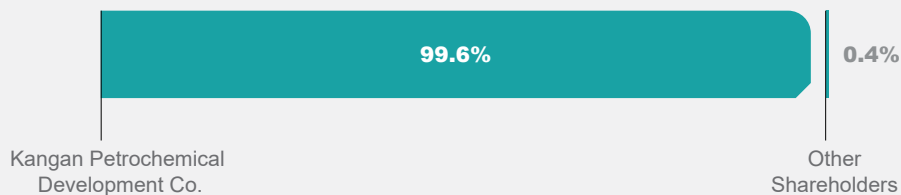


Nominal capacity (KT/Y): **300**

Kangan Polyethylene (Soroush Mahestan)

- **Implemented by:** Soroush Mahestan Kangan Co.
- **Location:** Kangan
- **Area:** 10 hectares
- **Start date:** 2020
- **Projected operation date:** 2025

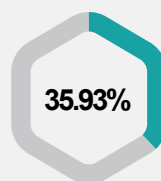
Ownership



Physical progress as of February 2022: 35.93%

Engineering & Procurement: -

License: LyondellBasell



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
HDPE	300	300

Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	300.5	Kangan Petrochemical Development Co.
1- Butene	4.25	Petrochemical complexes

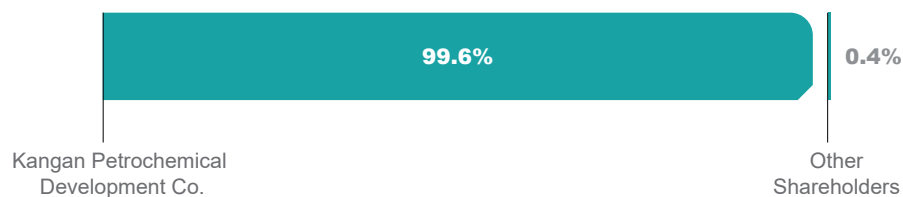


Nominal capacity (KT/Y): **300**

Kangan Polyethylene (Negin Mahestan)

- **Implemented by:** Negin Mahestan Kangan Co.
- **Location:** Kangan
- **Area:** 14.23 hectares
- **Start date:** 2020
- **Projected operation date:** 2025

Ownership



Production capacity (KT/Y)

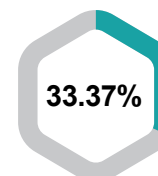
Products	Nominal capacity	Marketable
HDPE / LDPE	300	300

Physical progress as of February 2022: 33.37%

Engineering & Procurement: -

Construction installation contractors: -

License: LyondellBasell



Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	296	Kangan Petrochemical Development Co.
Butene	27	Petrochemical complexes

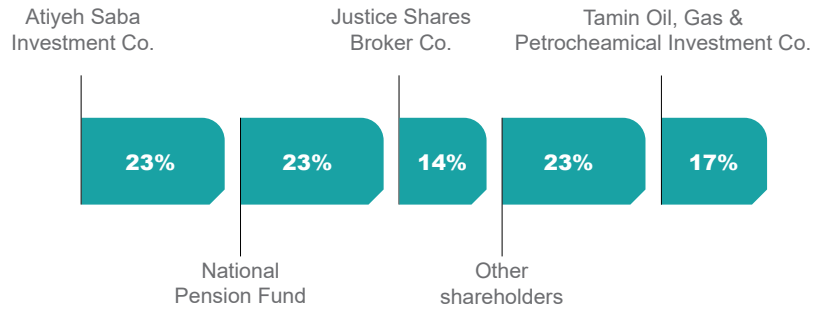


Nominal capacity (KT/Y): **1,200**

Jam PDH/PP (Kangan Polymer Development)

- **Implemented by:** Jam Petrochemical Co.
- **Location:** Kangan
- **Start date:** 2021
- **Projected operation date:** 2025

Ownership



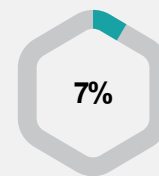
Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Propylene	600	-
Polypropylene	600	600

Physical progress as of February 2022: 7%

Engineering & Procurement: -

License: -



Fuel & Feedstock (KT/Y)

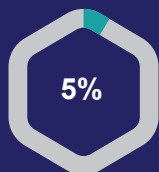
Feedstock	Capacity	Source
propane	714	South Pars Gas Refinery
Natural gas	1.28 (MCM/D)	NIGC



Nominal capacity (KT/Y): **900**

Alay Mahestan (PDH,PP)

- **Implemented by:** Alay Mahestan Petrochemical Co.
- **Location:** Kangan
- **Ownership:** Ahdaf Investment Co.100%
- **Start date:** 2021
- **Projected operation date:** 2025



Physical progress as of February 2022: 5%

Engineering & Procurement: -

Construction installation contractors: -

License: -

▮ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
polypropylene	450	450
propylene	450	42

▮ Feedstock (KT/Y)

Feedstock	Capacity	Source
Propane	547	Kangan Petrochemical Development Co.
Ethylene	45	olefin Kangan



Nominal capacity (KT/Y): **300**

Kangan Polyethylene HDPE

- **Implemented by:** Kangan Petrochemical Development Co.
- **Location:** kangan
- **Area:** -
- **Ownership:** Kangan Petrochemical Development Co. (100%)
- **Start date:** 2020
- **Projected operation date:** 2024

Production capacity (KT/Y)

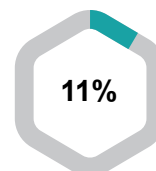
Products	Nominal capacity	Marketable
HDPE	300	300

Physical progress as of February 2022: 11%

Engineering & Procurement: -

Construction installation contractors: -

License: -



Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	300.5	olefin Kangan
Butene	4.25	Petrochemical complexes



Nominal capacity (KT/Y): **2031**

Arghavan Vista Energy Olefin/Polyolefin

- **Implemented by:** Arghavan Vista Energy Co.
- **Location:** Kangan
- **Area:** 60 hectares
- **Ownership:** Pension Fund of the IRIB (100%)
- **Start date:** 2021
- **Projected operation date:** 2027

Physical progress as of February 2022: 1.48%

Engineering & Procurement: -

Construction installation contractors: -

License: -



▀ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethylene	900	0
HDPE	300	300
C ₄ +	72	72
Pyrolysis gasoline	46	46
CFO	25	25
Propylene	88	88
LLPDE	600	600

▀ Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethane	985	South Pars Gas Refinery
Buthane	400	South Pars Gas Refinery
1- Butene	32	Jam Petrochemical
Natural gas	0.550 (MCM/D)	NIGC



Feedstock
Supply Projects
**Other
Regions**





Nominal capacity (KT/Y): **175**

Di Aria Polymer Polypropylene (Khomein)

- **Implemented by:** Di Aria Polymer Co. (Private Joint Stock)
- **Location:** Khomein
- **Area:** 34 hectares
- **Ownership:** Private person (100%)
- **Start date:** 2012
- **Projected operation date:** 2023

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polypropylene	175	175

Physical progress as of February 2022: 99.80%

Engineering & Procurement: Sazeh

Construction installation contractors: Sakhtar Sanat Paydar

License: Spheripol Basell



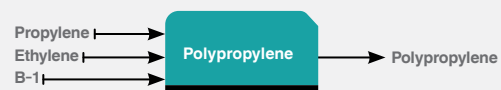
Applications

Production of home appliances, stationeries, packing, machine equipment

Feedstock (KT/Y)

Feedstock	Capacity	Source
Propylene	175	Arak Refinery
Ethylene	5	Petrochemical Complexes
Butene-1	2	Petrochemical Complexes
Natural gas	0.054 (MCM/D)	NIGC

Production Process Diagram





Nominal capacity (KT/Y): **415**

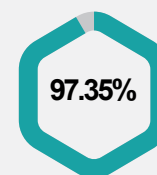
Arta Methanol & formaldehyde (Phase 2)

- **Implemented by:** Arta Energy Co.
- **Location:** Ardebil
- **Area:** 12 hectares
- **Ownership:** Natural Persons (100%)
- **Start date:** 2017
- **Projected operation date:** 2023

Physical progress as of February 2022: 97.35%

Engineering & Procurement: Thyssenkrupp Industrial Solution (Germany)

License: Uhde



Production capacity (KT/Y)

Product	Nominal capacity	Marketable
Methanol	132	0
formaldehyde	283	283

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	0.53	NIGC

Production Process Diagram



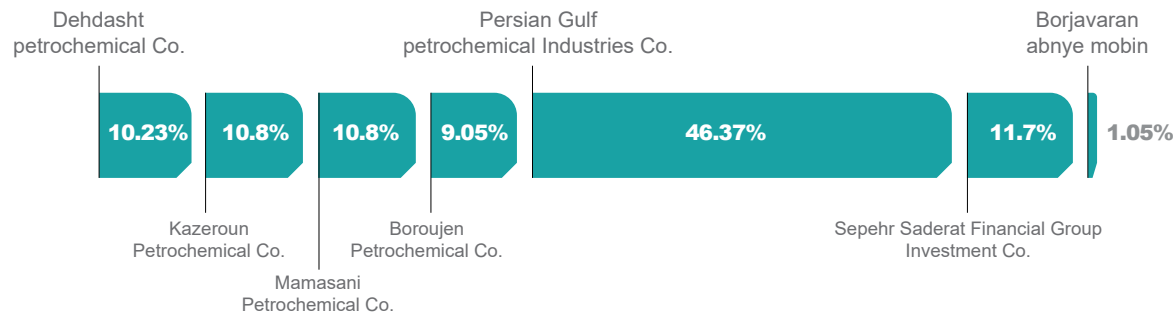


Nominal capacity (KTY): **1090**

Gachsaran Olefin

- **Implemented by:** Gachsaran Petrochemical Co. (Private Joint Stock)
- **Location:** Gachsaran
- **Area:** 157 hectares
- **Start date:** 2012
- **Projected operation date:** 2024

■ Ownership



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethylene	1,000	1,000
C3+	90	90

Physical progress as of February 2022: 90%

Engineering & Procurement: Alinam Consulting Engineers / Fanavaran Tehran Farayand Co.

Construction installation contractors: Fater Kosaran, Zeidoon koosh, Ram Co.

License: -



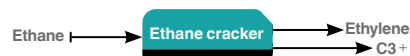
Applications

Providing feedstock for petrochemical plants en route the West Ethylene Pipeline (Dena Region)

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethane	1,250	2nd Bid Boland Project
Natural gas	1.36 (MCM/D)	NIGC

Production Process Diagram



NGL 3200 (Jofeir)

- **Implemented by:** Persian Gulf Yadavaran Gas Refinery (Private joint stock)
- **Location:** West Karoun river (60 KM South Hoveyzeh)
- **Area:** 180 hectares
- **Ownership:** Persian Gulf Petrochemical Co. (100%)
- **Start date:** 2013
- **Projected operation date:** 2023

Nominal capacity (KT/Y): **966**



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
C ₂ +	966	966

Engineering & Procurement: Prosernat Co. (France)

Physical progress(Phase1) as of February 2022: 86.90%



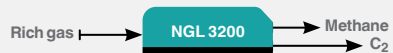
Applications

Feedstock for BIPC units (Faravaresh Co.)

Feedstock (KT/Y)

Feedstock	Capacity	Source
Pure Rich gas	966	Oil fields

Production Process Diagram



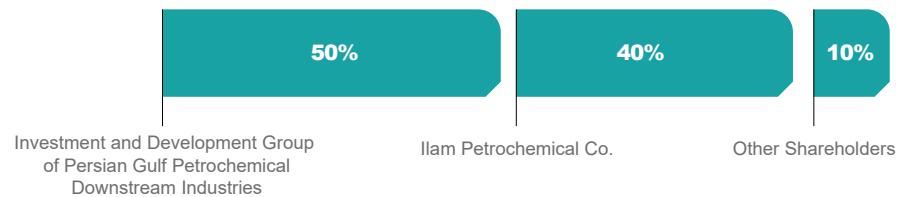


Nominal capacity (KT/Y): **150**

Arghavan Gostar Ilam Polypropylene

- **Implemented by:** Arghavan Gostar Ilam Co.
- **Location:** Ilam
- **Start date:** 2020
- **Projected operation date:** 2024

■ Ownership



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polypropylene	150	150

Physical progress as of February 2022: 67.6%

Engineering & Procurement: Panah sanat part

License: Basell

67.6%

Feedstock (KT/Y)

Feedstock	Capacity	Source
Propylene	145	Ilam Petrochemical Co.
Ethylene	10	Ilam Petrochemical Co.





Nominal capacity (KT/Y): **36.3**

IPA project of Petro Ayman Sepahan

- **Implemented by:** Petro Imen Sepahan Co.
- **Location:** Shahreza (Isfahan Province)
- **Area:** 10 hectares
- **Start date:** 2018
- **Projected operation date:** 2023

■ Ownership



Production capacity (KT/Y)

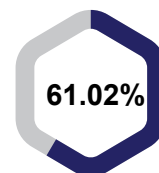
Products	Nominal capacity	Marketable
Isopropyl alcohol	33	33
Di isopropyl ether	3.3	3.3

Physical progress as of February 2022: 61.02%

Engineering & Procurement: Farayand Andishan Co, Petrosakht Co

Construction installation contractors: -

License: Hintec (Russia)



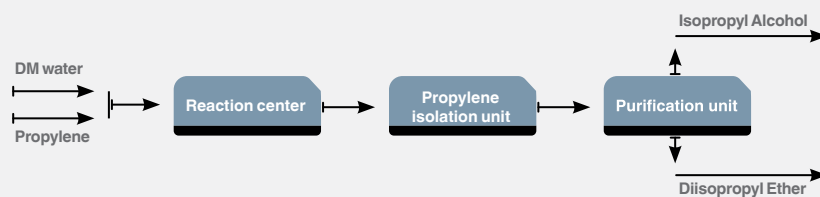
Applications

Cosmetics, pharmaceutical, printing and paint industries

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propylene	29	Arak Petrochemical / Other resources
Natural gas	0.51 (MCM/D)	NIGC

Production Process Diagram



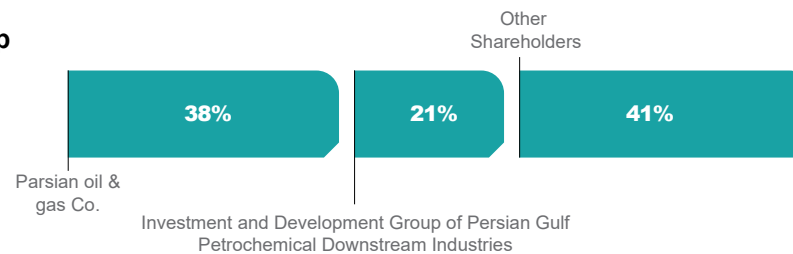


Nominal capacity (KT/Y): **1,056**

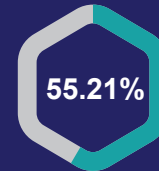
Kermanshah Petrochemical Urea and Ammonia (Phase 2)

- **Implemented by:** Kermanshah Petrochemical Co. (Public joint stock)
- **Location:** Hersin (Kermanshah province)
- **Area:** 13 hectares
- **Start date:** 2013
- **Projected operation date:** 2023

■ Ownership



Physical progress as of February 2022: 55.21%
Engineering & Procurement: -
Construction installation contractors: Namvaran / Tecnimont
License: Collage, Stami Carbon



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ammonia	396	25
Urea	660	660

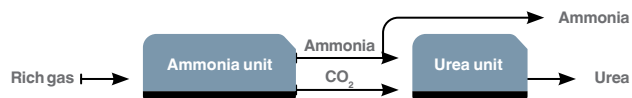
Applications

As chemical fertilizer for agricultural purposes

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	1.22	NIGC

Production Process Diagram

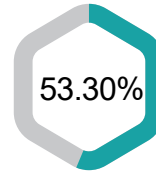


NGL 3100 (Dehloran)

- **Implemented by:** Dehloran Petro Refining Co.
- **Location:** Dehloran, Dashte Abbas District
- **Area:** 105 hectares
- **Ownership:** Oil Industry Pension Fund (100%)
- **Start date:** 2014
- **Projected operation date:** 2024

Nominal capacity (KT/Y): **1,201**





Production capacity (KT/Y)

Products	Nominal capacity	Marketable
C ₂ ⁺	1,055	1,055
Sulfur granule	131	131

Feedstock (KT/Y)

Feedstock	Capacity	Source
Pure Rich Gas	1,561	Cheshmeh Khosh

Physical progress as of

February 2022: 53.30%

Engineering, Procurement and

pre-Installation: EIED, OTC, OIEC, Ehsad, Fara-Nirou, ICC

Applications

C₂⁺ Feedstock for petrochemical olefin units, sulfur, fertilizers production and sulfuric acid

Production Process Diagram

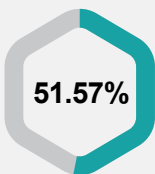




Nominal capacity (KT/Y): **1,650**

Siraf Methanol

- **Implemented by:** Siraf Energy Investment Co.
- **Location:** Dayyer (Bushehr province)
- **Area:** 54 hectares
- **Ownership:** Energy Sepehr Co. (100%)
- **Start date:** 2013
- **Projected operation date:** 2024



Physical progress as of February 2022: 51.57%

Engineering & Procurement: Namvaran / Pendar / Parsian / Azarab /
Petro Taksan / Persian Sazeh

License: Topsoe (Denmark)

Production capacity (KT/Y)

Product	Nominal capacity	Marketable
Methanol	1,650	1,650

Applications

Production of MTBE, acetic acid, resins, formaldehyde, anti-freeze, adhesives, diesel fuel, plastics and as solvent in downstream industries, MTP and MTO

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.48	NIGC

Production Process Diagram

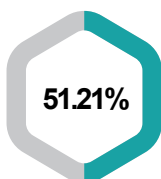




Nominal capacity (KT/Y): **180**

Alvand Polypropylene

- **Implemented by:** Alvand Petrochemical Development Co.
- **Location:** Markazi Province - Shazand County
- **Area:** 10 hectares
- **Ownership:** Private sector (100%)
- **Start date:** 2017
- **Projected operation date:** 2023



Physical progress as of February 2022: 51.21%

Engineering & Procurement: Farapetrosazan Co, Rasoundkar Co.

License: HFEC

Production capacity (KT/Y)

Product	Nominal capacity	Marketable
PP	180	180

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propylene	181	Imam Khomeini Shazand Refinery
Natural gas	0.018 (MCM/D)	NIGC

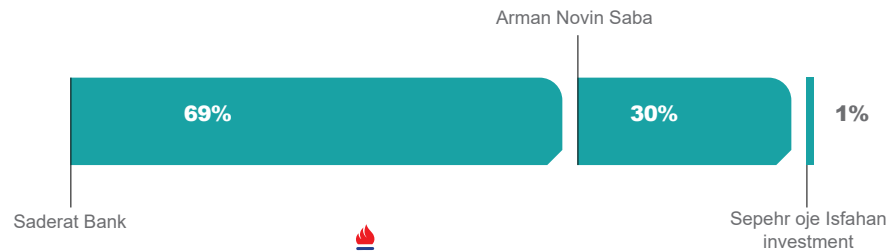


Nominal capacity (KT/Y): **70**

2EH Petro Samin

- **Implemented by:** Petro Samin Sepahan Petrochemical Industries
- **Location:** Shahreza (Isfahan province)
- **Area:** 6.5 hectares
- **Start date:** 2011
- **Projected operation date:** 2024

■ Ownership



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethylhexanol	20	20
Butanol	50	50

Physical progress as of February 2022: 40.47%

Engineering & Procurement: Chehelsoton Petro Sakht Co

Construction installation contractors: -

License: Davy-Dow chemical



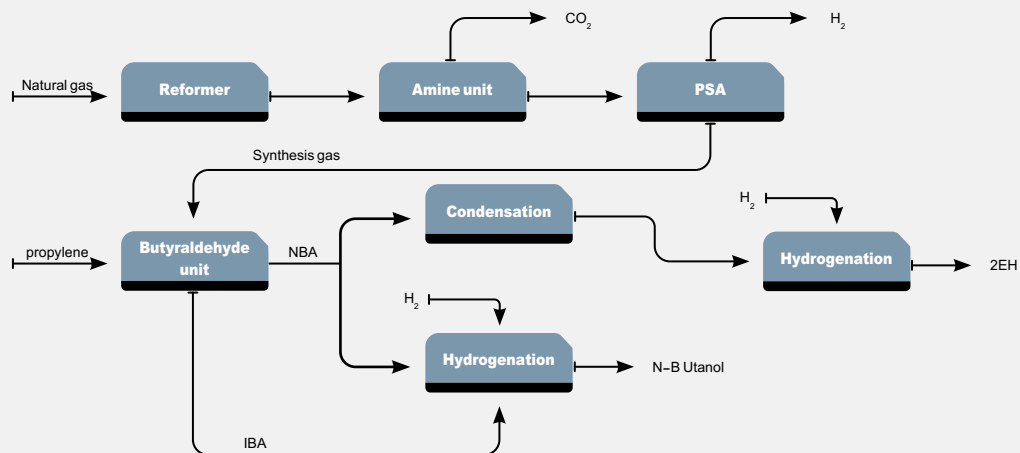
Applications

1-Butanol, 2EH

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Propylene	52	Abadan Refinery
Natural gas	0.17 (MCM/D)	NIGC

Production Process Diagram





Nominal capacity (KT/Y): **1650**

Badr Shargh (Phase 1)

- **Implemented by:** Badr Shargh Petrochemical Co.
- **Location:** Chabahar
- **Area:** 103 hectares
- **Ownership:** Shestan Commercial Investment Company (100%)
- **Start date:** 2014
- **Projected operation date:** 2024

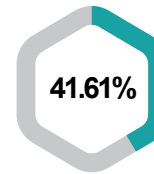
Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Methanol	1650	0

Physical progress as of February 2022: 41.61%

Engineering & Procurement: Namvaran Engineering Consultant

License: Haldor Topsoe



Applications

Formaldehyde, acetic acid, MTBE, fuel, solvents, paints, plastics, antifreeze, disinfectant and pharmaceuticals

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.824	NIGC

Production Process Diagram



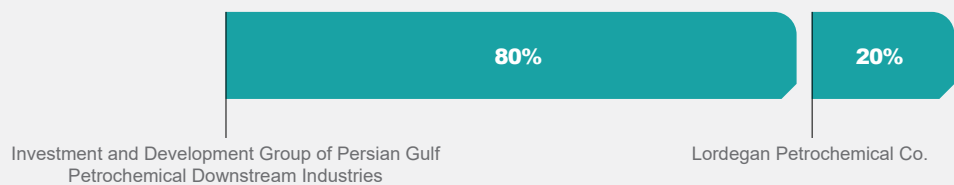


Nominal capacity (KT/Y): **60**

Petro Armand Lordegan Melamine Crystal

- **Implemented by:** Lordegan Petro Armand Co.
- **Location:** Charmahal Va Bakhtiari province - Lordegan
- **Area:** 15 hectares
- **Start date:** 2021
- **Projected operation date:** 2024

Ownership



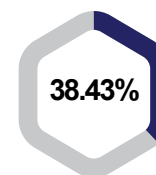
Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Crystal melamine	30	30
Ammonia	30	30

Physical progress as of February 2022: 38.43%

Engineering & Procurement: -

License: Ammonia Casale (Ammonia), Stami Carbon (Urea)



Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Urea	91	Internal Resources
Natural gas	0.023 (MCM/D)	NIGC

Kharg Methanol (Phase 2)

- **Implemented by:** Kharg Petrochemical Co. (Public Joint stock)
- **Location:** Kharg Island
- **Area:** 26 hectares
- **Ownership:** Private sector (100%)
- **Projected operation date:** 2027

Nominal capacity (KT/Y): **1,400**



Production capacity (KT/Y)

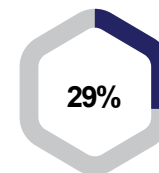
Product	Nominal capacity	Marketable
Methanol	1400	1400

Physical progress as of February 2022: 29%

Engineering & Procurement: Johnson Matthey Davy Technologies

Construction installation contractors: -

License: Johnson Matthey



Applications

MTBE, Acetic acid and also as a solvent in downstream industries, resins, adhesives, formaldehyde, antifreeze, plastics, DME, MTP and MTO

Feedstock (MCM/D)

Feedstock	Capacity	Source
Oxygen	485 (MCM/Y)	Kharg Petrochemical Co.
Natural gas	4.33	NIGC

Production Process Diagram



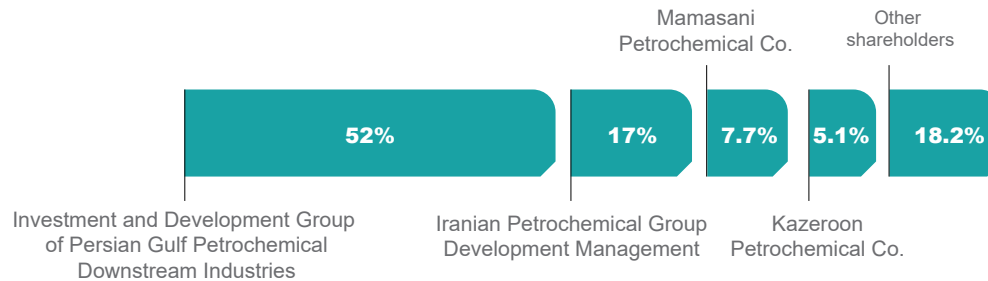


Nominal capacity (KT/Y): **300**

Dehdasht HDPE

- **Implemented by:** Dehdasht petrochemical Co.
- **Location:** Dehdasht
- **Area:** 102 hectares
- **Start date:** 2019
- **Projected operation date:** 2025

Ownership



Production capacity (KT/Y)

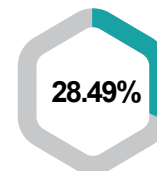
Products	Nominal capacity	Marketable
HDPE	300	300

Physical progress as of February 2022: 28.49%

Engineering, Logistics and pre-Procurement: Joint Venture of Petro Pars Co. and Nargan

License: LyondellBasell

Basic, Detailed and Procurement Engineering Contractors: Petro Pars Co. and Nargan Co.



Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	305	West Ethylene Pipeline
1- Butene	6	Other resources
Natural gas	0.048 (MCM/D)	NIGC

Helilan Energy Nikan HDPE

- **Implemented by:** Helilan Petrochemical Co.
- **Location:** Ilam province
- **Area:** 100 hectares
- **Ownership:** Private sector(100%)
- **Start date:** 2018
- **Projected operation date:** 2027

Nominal capacity (KT/Y): **200**



Production capacity (KT/Y)

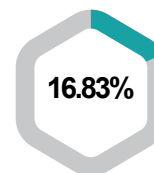
Product	Nominal capacity	Marketable
HDPE	200	200

Physical progress as of February 2022: 16.83%

Engineering & Procurement: -

Construction installation contractors: -

License: Versalis



Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	198	West Ethylene Pipeline
Hexene	4	Other resources
Natural gas	0.35 (MCM/D)	NIGC



Nominal capacity (KT/Y): **1650**

Sina Development Chemical Industries - GTPO (Phase1)

- **Implemented by:** Sina Chemical Development Industries Co.
- **Location:** Makran (Chabahar)
- **Area:** 45 hectares
- **Ownership:** Pasargad Development Energy Co. (100%)
- **Start date:** 2015
- **Projected operation date:** 2025

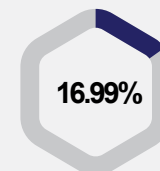
Production capacity (KT/Y)

Product	Nominal capacity	Marketable
Methanol	1650	0

Physical progress as of February 2022: 16.99%

Engineering & Procurement: Namvaran Co, Sedin Co

License: SYN Energy Co



Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.93	NIGC



Nominal capacity (KT/Y): **22.6**

Methylamines Songhor

- **Implemented by:** Songhor Petrochemical Co.
- **Location:** Songhor
- **Ownership:** Persian Gulf Petrochemical Industries Co. (100%)
- **Projected operation date:** 2025

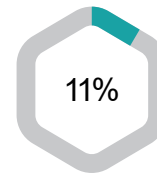
Production capacity (KT/Y)

Product	Nominal capacity	Marketable
Methylamine	22.6	22.6

Physical progress as of February 2022: 11%

Engineering & Procurement: -

License: -



Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Methanol	31	Fanavaran Petrochemical Co.
Ammonia	10	Kermanshah Petrochemical Co.





Nominal capacity (KT/Y): **300**

Tabriz HDPE (Phase2)

- **Implemented by:** Tabriz Petrochemical Co.
- **Location:** East Azerbaijan Province
- **Area:** 7.8 hectares
- **Start date:** 2019
- **Projected operation date:** 2026

Ownership



Physical progress as of February 2022: 13.90%

Engineering & Procurement: -

Construction installation contractors: -

License: Research and Technology of National Petrochemical Company



Production capacity (KT/Y)

Products	Nominal capacity	Marketable
HDPE	300	300

Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	310	West Ethylene Pipeline
Butene	3	Internal Resources
Natural gas	0.130 (MCM/D)	NIGC



Nominal capacity (KT/Y): **956**

GTPP of Islamabad-e-Gharb

- **Implemented by:** Islamabad-e-Gharb Petrochemical Industries Co.
- **Location:** Islamabad-e-Gharb (Zagros Special Economic Zone)
- **Area:** 54 hectares
- **Ownership:** National Petrochemical Company (NPC)(100%)
- **Start date:** 2019
- **Projected operation date:** 2026

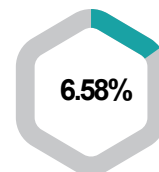
Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Methanol	660	235
Polypropylene	120	120
LPG	10	10
propylene	120	0
PG	46	46

Physical progress as of February 2022: 6.58%

Engineering & Procurement: -

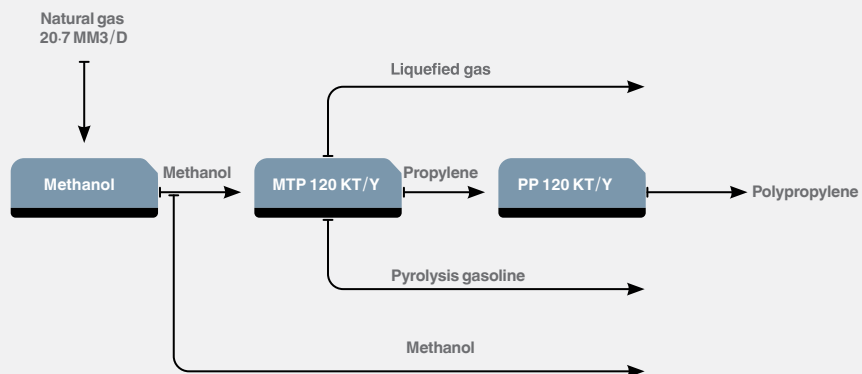
License: Petrochemical Research and Technology Company



Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	2.19	NIGC

Production Process Diagram



Gachsaran HDPE

- **Implemented by:** Gachsaran Petrochemical Co.
- **Location:** Gachsaran
- **Ownership:** Persian Gulf Petrochemical Industries Co. (100%)
- **Projected operation date:** 2025

Nominal capacity (KT/Y): **300**



Production capacity (KT/Y)

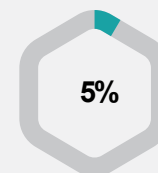
Product	Nominal capacity	Marketable
HDPE	300	300

Physical progress as of February 2022: 5%

Engineering & Procurement: -

Construction installation contractors: -

License: -



Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	300	West Ethylene Pipeline
Butene	0.006	internal resources
Hexane	0.007	internal resources
Propylene	0.005	internal resources



Nominal capacity (KT/Y): **2,896**

Soroush Energy Paydar - GTO

- **Implemented by:** Soroush Energy Paydar (Pasargad Petrochemical Co.)
- **Location:** Hormozgan province
- **Area:** 160 hectares
- **Ownership:** Pasargad (100%)
- **Start date:** 2021
- **Projected operation date:** 2027

■ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
C 4	10.4	10.4
C 5 ⁺	3.7	3.7
Polypropylene	310	310
HDPE	250	250
Methanol	1,650	0
EDPM	50	50
Ethylene	300	0
Propylene	322	0

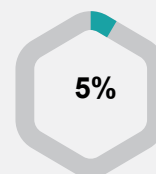
Physical progress as of February 2022: 5%

The second phase of operation has not started yet.

License: Methanol: Haldor Topsoe

Basic, Detailed and Procurement Engineering Contractors:

Methanol unit (Sazeh Consultant Engineers Co.)



■ Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	4.39	NIGC



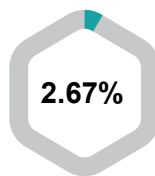
Nominal capacity (KT/Y): **2,944**

Mabna Kimia Industries_GTPO Train 1

- **Implemented by:** Bakhtar Group
- **Location:** chabahar
- **Area:** 73 hectares
- **Ownership:** Private sector (100%)
- **Start date:** 2021
- **Projected operation date:** 2028

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polypropylene	410	410
HDPE	225	225
Propylene	410	0
Ethylene	225	0
Methanol	1,650	0
LNG	24	24
C 4	72	72
Pyrolysis gasoline	48	48



Physical progress as of February 2022: 2.67%

Engineering & Procurement: -

License: -

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	5.13	NIGC



Nominal capacity (KT/Y): **308**

Ethylene Oxide project of Ibn Sina Andimeshk

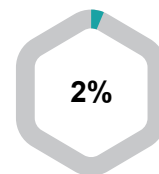
- **Implemented by:** Andimeshk Ibne Sina Co.
- **Location:** Andimeshk
- **Area:** 90 hectares
- **Ownership:** Persian Gulf Petrochemical Industries Co. (100%)
- **Start date:** 2017
- **Projected operation date:** 2024

Physical progress as of February 2022: 2%

Engineering & Procurement: -

Construction & Installation contractors:

License: Elit



■ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Ethanolamine	31	31
Ethoxylates	101	101
Ethylene oxide	110	1.5
Mono Ethylene Glycol	11	11
Glycol ethers	55	55

■ Fuel & Feedstock (KT/Y)

Feedstock	Capacity	Source
Ethylene	83	West Ethylene pipeline
Natural gas	0.240 (MCM/D)	NIGC



Nominal capacity (KT/Y): **940**

Besat Kordestan PTA/PET

- **Implemented by:** Besat Kordestan Co.
- **Location:** kordestan province
- **Start date:** 2021
- **Projected operation date:** 2027

▀ Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polyethylene terephthalate	500	500
Terephthalic acid	440	0

Physical progress as of February 2022: The project has not started yet

Engineering & Procurement: -

License: -

▀ Feedstock (KT/Y)

Feedstock	Capacity	Source
MEG	169	Arak Petrochemical Co.
Acetic acid	27	Fanavaran Petrochemical Co.
p-Xylene	295	Nouri Petrochemical Co.



Nominal capacity (KT/Y): **2,944**

Mabna Kimia Industries_GTPO Train 2

- **Implemented by:** Bakhtar Group
- **Location:** Chabahar
- **Area:** 730 hectares
- **Ownership:** Private sector (100%)
- **Start date:** 2021
- **Projected operation date:** 2027

Production capacity (KT/Y)

Products	Nominal capacity	Marketable
Polypropylene	410	410
HDPE	225	225
Propylene	410	0
Ethylene	225	0
Methanol	1,650	0
LNG	24	24
Pyrolysis gasoline	48	48
C 4	72	72

Physical progress as of February 2022: The project has not started yet

Engineering & Procurement: -

License: -

Fuel & Feedstock (MCM/D)

Feedstock	Capacity	Source
Natural gas	5.13	NIGC

A photograph of an industrial facility, likely a refinery or chemical plant. The scene is dominated by a large, complex network of yellow-painted pipes and metal scaffolding. In the foreground, several large, dark-colored pipes run horizontally across the frame. In the background, a tall, cylindrical distillation column with red and white horizontal bands stands prominently. The sky is clear and blue. The image is overlaid with a white diagonal line and a blue-to-purple gradient background.

Infrastructure Projects

NY-FLARE-WF-1510001



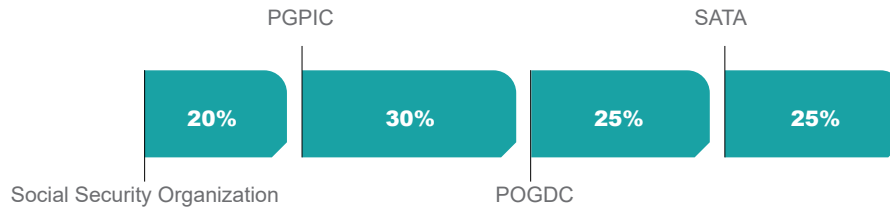


Nominal capacity (KT/Y): -

Energy Damavand Petrochemical Co. (phase2)

- **Implemented by:** Damavand Petrochemical Co.
- **Location:** Pars Special Economic Energy Zone (Assaluyeh)
- **Area:** 90 hectares
- **Start date:** 2012
- **Projected operation date:** 2027

Ownership



Production capacity

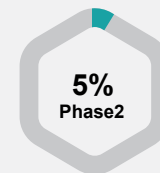
Products	Nominal capacity
Power supply	1944 (MW)
Steam	1,890(T/H)
Air	Oxygen 605,000 (M ³ /H) Nitrogen 90,000 (M ³ /H) Instrument Air 60,000 (M ³ /H) Service Air 20,000 (M ³ /H)
Water	Cooling water 286,000 (M ³ /D) Water without salts 74,000 (M ³ /D) Condensed water returned 37,000 (M ³ /D) Drinking water 8,000 (M ³ /D) Service water 12,000 (M ³ /D)
Water Catchment	80,000 (M ³ /H)

Physical progress as of February 2021: Phase1-100% Phase2-5% Phase3(-)

Engineering & Procurement: -

Construction installation contractors: -

License: -



Feedstock (MCM/Y)

Feedstock	Capacity	Source
Natural gas	5.28	NIGC



Green Tanks (Phase2)

- **Implemented by:** Green Tanks Executer Co.
- **Location:** Pars Special Economic Energy Zone (Assaluyeh)
- **Area:** 46.67 hectares
- **Ownership:** SATA(100%)



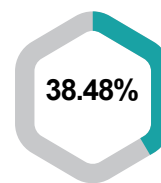
- **Start date:** 2013
- **Projected operation date:** 2026

Physical progress as of February 2021: 38.48%

Engineering & Procurement: -

Construction & Installation contractors:

License: -



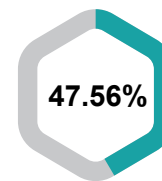


West Ethylene pipeline (Phase2)

- **Implemented by:** West Pipeline Executer
- **Location:** Kermanshah-Mahabad
- **Path length:** 800 KM
- **Ownership:** NPC (100%)
- **Start date:** 2018
- **Projected operation date:** 2027



Physical progress as of February 2021: 47.56%
Engineering & Procurement: -
Construction and installation contractors: Omransazan Co.





Flare Gas Gathering (Marun)

- **Implemented by:** Marun petrochemical Co.
- **Location:** Khuzestan province
- **Ownership:** National Iranian South Oil Company (100%)
- **Start date:** 2019
- **Projected operation date:** 2025

Physical progress as of February 2022: 18.75%

Executive and Consultant Contractors: Marun Karan Co., Aria Mahan Sanat In cooperation with Samin Sanat Sazeh, Behta Borna Tadbir, Design and Refining Engineering Co.

License: -





Flare Gas Gathering (Bid Boland)

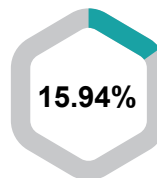
- **Implemented by:** Persian Gulf Bid Boland Gas Refinery
- **Location:** Khuzestan - Kohgiluyeh va Boyerahmad- Bushehr-Fars
- **Ownership:** Persian Gulf Petrochemical Industries Co. (100%)
- **Start date:** 2018
- **Projected operation date:** 2024

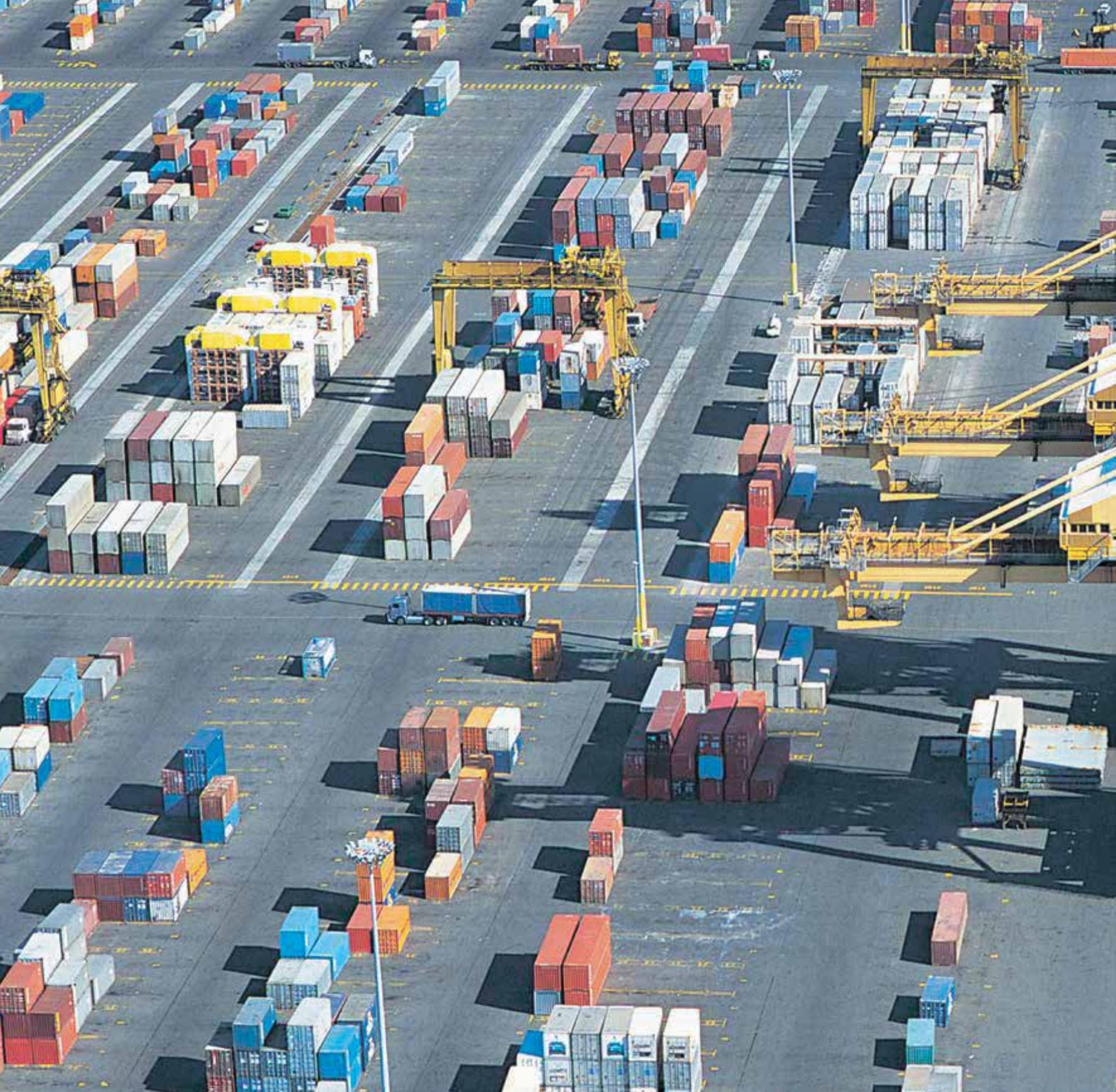
Physical progress as of February 2022: 15.94%

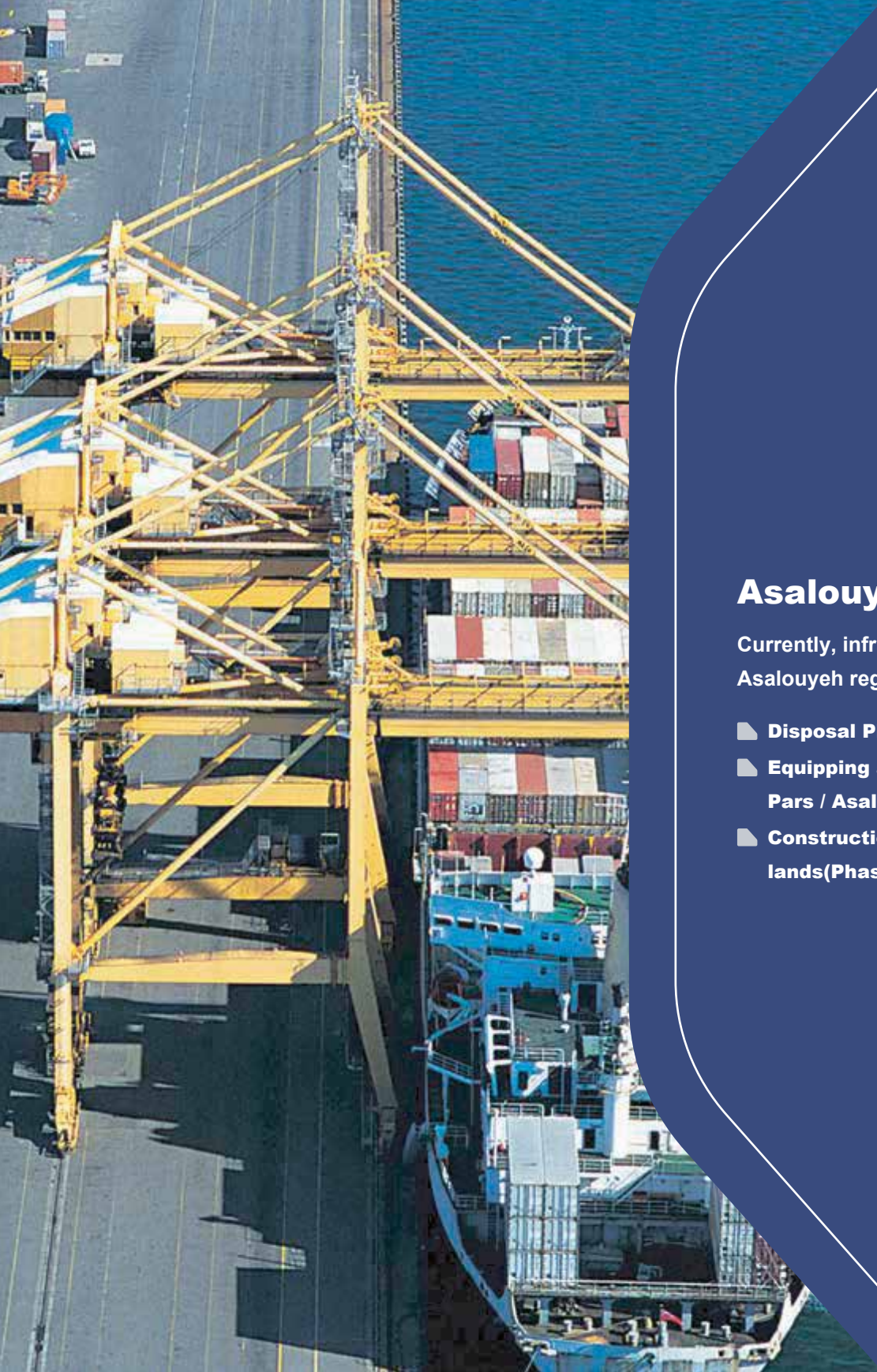
Engineering & Procurement: -

Construction & Installation contractors:

License: -



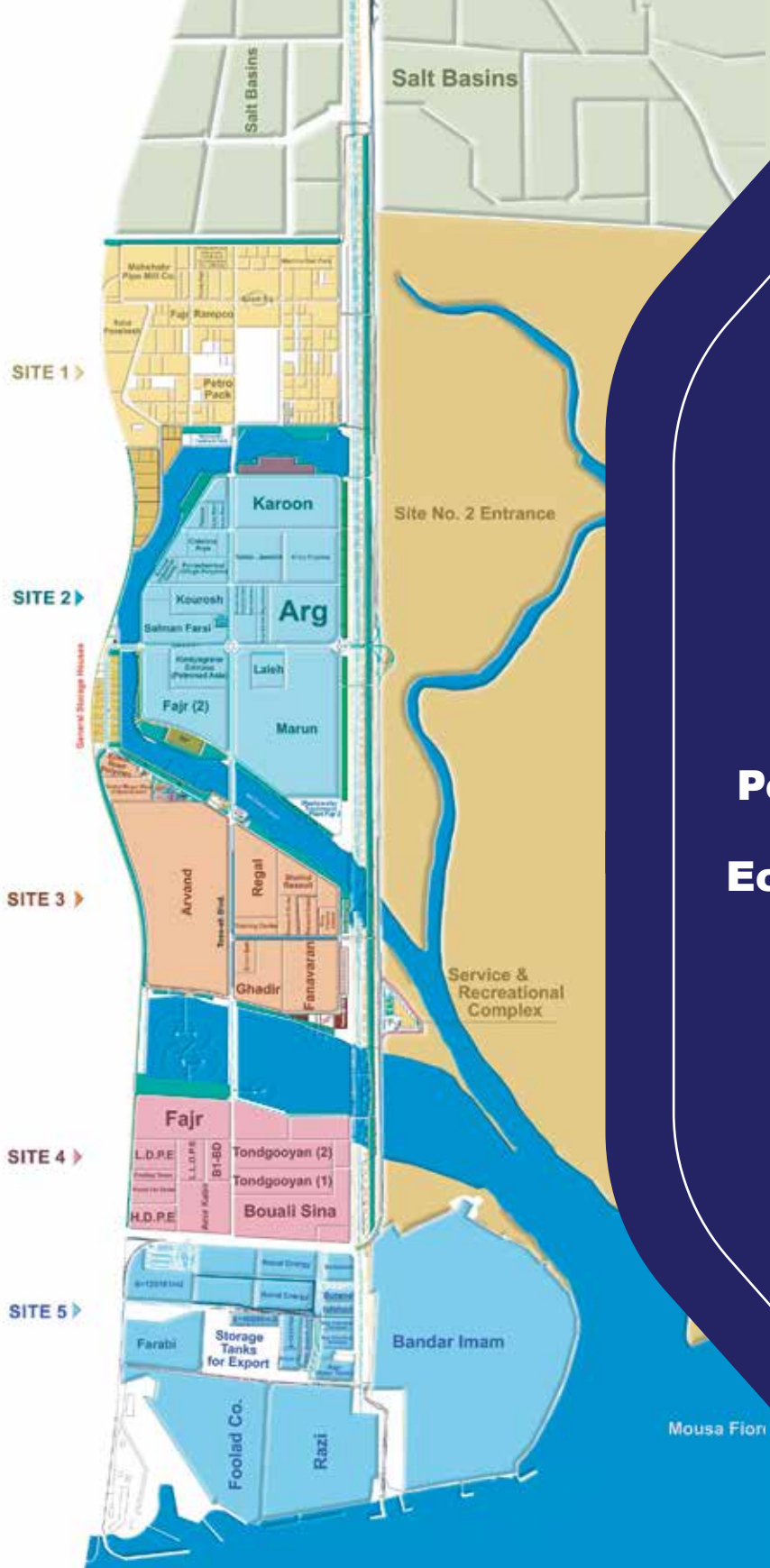




Asalouyeh infrastructure projects

Currently, infrastructure projects are being implemented in Asalouyeh region, which include the following projects:

- **Disposal Plan & Flood Containment Of Asalouyeh Site**
- **Equipping and repairing the use of docks in South Pars / Asalouyeh**
- **Construction of coastal protection breakwaters in lands(Phase 2) of Petrochemical - Asalouyeh**



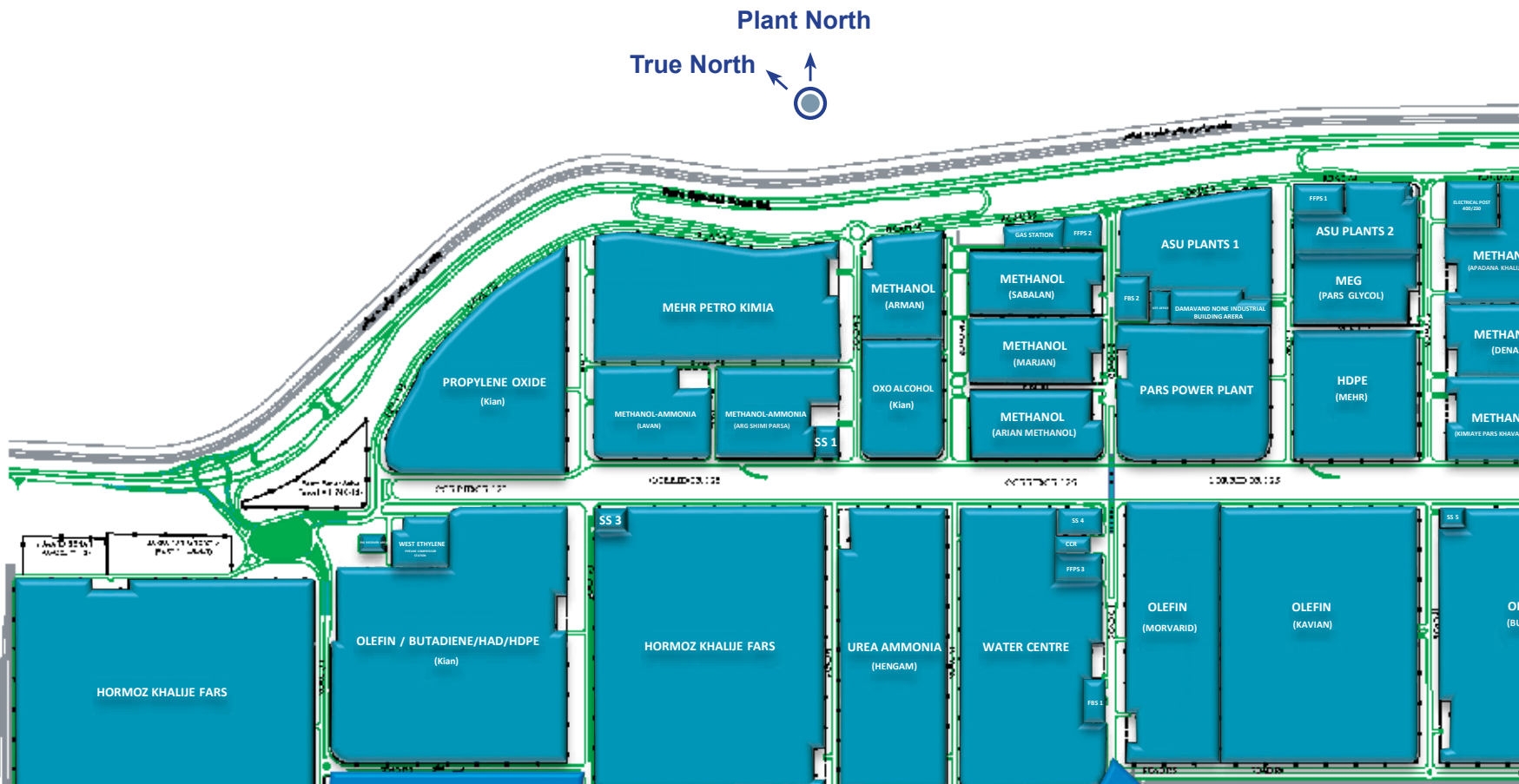
Petrochemical Special Economic Zone (MAHSHAHR)

Lying on the coast of the Persian Gulf, the Petrochemical Special Economic Zone (PSEZ), originally spread out on an area of 1,700 hectares in southwestern city of Mahshahr, Bandar Imam Khomeini district. The zone expanded over an area of 2300 hectares in March 2007 based on authorization No. K 36042 T/167936 by Iran's High Council of Free Industrial / Trade Zone. According to this addendum, Bandar Imam, Razi and Farabi petrochemical companies were located in Petrochemical Special Economic Zone (PSEZ). Mahshahr is already the hub of Iran's petrochemical industry. In terms of its natural & geographical position and also enjoying the legal facilities of special zones, the Petrochemical Special Economic Zone has been established in order to develop the industry and trade activities (specially downstream industries), meeting the economic, social and national interests, applying new technologies and increasing job creation. From the geographical point of view, the zone has access to the international waterways through Bandar Imam and national railway network is accessible to Turkey, European and Central Asian countries. The Petrochemical Special Economic Zone Organization was established in 1997 based on an authorization by Iran's High Council of Free Industrial/Trade Zone to manage and develop industrial and economical activities including petrochemical sector in the area. As a subsidiary of NPC, the Petrochemical Special Economic Zone Organization welcomes local and foreign investors to invest in this economically important area. The implementation work of phases 11 - 24 have been started and are underway.

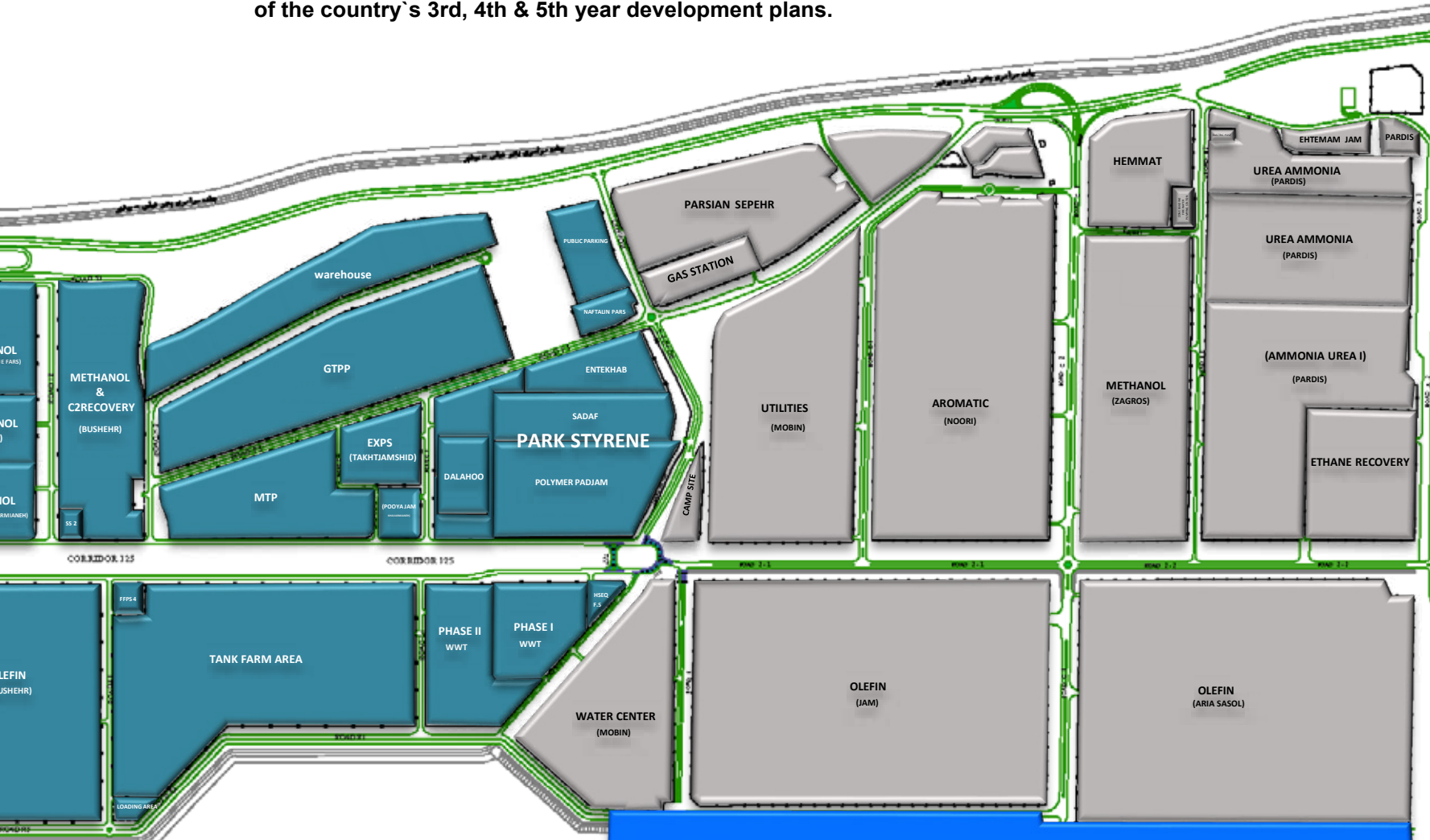
Several world-scale petrochemical plants are being constructed in Assaluyeh zone as part of the country's 3rd, 4th & 5th development plans.

Pars Special Economic Energy Zone (Assaluyeh)

The Pars Special Economic / Energy Zone Organization consists of three regions; Pars 1 (South Pars) with an area of 14.000 hectares, Pars 2 (Pars Kangan) with an area of 16.000 hectares and Pars 3 (North Pars) with an area of 16.000 hectares. The organization was established in 1999 to support the development of South Pars Gas Field, the world's largest gas field, through establishing, approving, planning, implementing, utilizing and developing the infrastructures such as roads, rail ways, ports, airports, power plants and drinking water facilities. The availability of proper infrastructures in the up, middle and downstreams of oil and gas industry, Pars Complex Port, the International Persian Gulf Airport, water and power facilities, communication, roads and available natural tourist attractions have made the region an ideal place for local and foreign investors. Lying on the coast of the Persian Gulf, the Zone has access to the rich hydrocarbon



resources in the region providing lucrative conditions for foreign investment. It is the hub of development activities underway at South Pars gas field. With its reserves estimated at 14 trillion cubic meters of gas and 18 billion barrels of condensates, the field is the world's largest gas field. It represents 6.8% of the global gas reserves. Given the field's capacity, 28 development phases and 3 giant LNG projects have so far been planned to be implemented in Assaluyeh and Kangan in an area of 30,000 hectares. Currently, the first ten phases are onstream. On average, \$1.5bn has been invested for each phase. The implementation work of phases 11 - 24 is already underway. Several world-scale petrochemical plants are being constructed in Assaluyeh Zone as part of the country's 3rd, 4th & 5th year development plans.





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