

Introduction

Since oil, gas, and petrochemical industries play a vital role in Iran's economy, the data on them are presented in an exclusive chapter.

The Iranian oil industry came to existence by the exploitation of gas and oil from the first oil well in Masjed Soleyman (south-western Iran) in 1287 (1908) on which some data are available. After nationalization of the oil industry in Esfand 1329, the National Iranian Oil Company (NIOC) managed to release some more data. The data furnished by the NIOC for 1334 (1955) were reflected in the first statistical yearbook of Iran.

Also, the National Iranian Gas Company (NIGC), established in 1344, and the National Iranian Liquefied Gas Company (NILGC), established in 1366, have been regularly releasing data on liquefied natural gas (LNG) and liquefied petroleum gas (LPG) respectively.

The installation of the first fertilizer plant in 1342, was an introduction to the establishment of the National Petrochemical Company in 1343. Because of abundant resources of oil and gas available in the country, high value-added of the industry, and some other factors, production of chemicals and petrochemicals has received great attention.

The statistics appearing in this chapter are currently provided by deputy for planning and supervision of hydrocarbon resources of the ministry of oil.

For additional information, provided by the Organization of the Petroleum Exporting Countries (OPEC), see Chapter 22 (International Statistics)

Definitions and concepts

Crude oil: a mixture of hydrocarbons that exists in a liquid phase in natural underground reservoirs. Crude petroleum mainly consists of saturated and unsaturated aliphatic hydrocarbons and some aromatic materials. In addition to hydrogen and carbon that are the main constituents of oil, it contains nitrogen, oxygen, sulphur, nickel, sodium, vanadium and iron as well. As a result of the changes in the amount of these elements, crude oil is much diversified physically and chemically.

Burning oil: consisting of paraffin, petroleum and aromatic hydrocarbons, this product is used as heating and thermal power generation fuel and is one of the main constituents of jet fuel.

Fuel oil: a residual substance obtained from the distillation of crude oil in refineries. Because of its heavy hydrocarbon content, this product does not burn easily. It is one of the main fuels for ships and large manufacturing establishments including power generation plants.

Gas oil: obtained from the separation of burning oil from crude petroleum, this product is used as fuel for agricultural and industrial machinery and public transport vehicles and for thermal installations.

Motor spirit: a mixture of isomerized and circular hydrocarbons with different concentrations, to which certain organic compounds are added for easy burning.

Jet fuel: is used as engines fuel for fighter and passenger aircrafts. It is produced in different types in terms of mixture of high quality burning oil and other light oil products with some additives to prevent rusting, reduce the risk of icing, etc. In international standards, it is known as JP4 and ATK.

Natural gas (enriched gas): gas obtained from oil and gas reservoirs, available as associated gas (such as gas extracted from Aghajari gas field), non-associated gas (such as Sarakhs and Sarkhun gas) or gas cap gas.

Sweet gas: enriched (natural) gas obtained from further refining, that is, separation of liquids and gaseous impurities from enriched gas.

Liquefied gas: a mixture of normal butane and propane, the proportion of which changes under environmental conditions and utilization and becomes liquid under a pressure of 100-110 pounds on square inch.

Gas injection: gas and/or water injected into oil reservoir for optimum utilization and preservation of resources.

Gas customer: the natural or legal person whose characteristics have been registered and who has been given a customer number after their submission of required documents and payment

of related costs based on formal procedure for admission of natural gas applicant.

Gas consumer: the person who consumes gas after subscription and operations of gas supply.

Gas extension: the lines which have been extended from transmission, feeding and network lines into the customer's private station.

Polymer: refers to heavy molecules with high carbon made out of molecules with low carbon in compositions of unsaturated paraffin hydrocarbons. Types of polymer include:

(a) Major: polyethylenes, PVC, polypropylene, polystyrene, melamine crystal, polyester (PET) and ABS.

(b) Engineering: polycarbonate, and epoxy.

(c) Rubbers: styrene-butadiene, polybutadiene, rubber.

Chemicals

(a) Basics include ethylene, propylene, methanol, butadiene, C4 cut, butene-1.

(b) Intermediates include ethylene oxide, ethylene glycols, acetic acid, vinyl acetate, EDC, VCM, ethanol amine, 2-ethyl-hexanol and butanols.

(c) Minerals include light and dense sodium carbonate, sodium bicarbonate, argon, perchlorin hydrochloric acid, chlorine (liquid), caustic soda, sodium hypochlorite, ammonium nitrate (explosive).

Aromatics: are unsaturated cyclic hydrocarbons consisting of one or more benzene rings (a six-carbon ring with three double bonds). Aromatics include benzene, toluene, mixed xylenes, p-xylene, o-xylene, ethyl benzene, monomer styrene and PTA.

Hydrocarbons: include propane, butane, pentane plus, pentane, pyrolysis gasoline, C4 raffinate, C6 raffinate, CFO, MTBE.

Fertilizers, pesticides and related materials

(a) Fertilizers include urea, ammonium nitrate, diammonium phosphate, ammonium sulphate.

(b) Pesticides include alachlor, butachlor.

(c) Related materials include ammonia, nitric acid, phosphoric acid, sulphuric acid, sulphur, chloroacetyl chloride.

Selected information

In the year 1388, a total of 750537 thousand barrels of crude oil were exported, which shows a 13.3% decrease compared to the preceding year. Also in the same year, the amount of oil

products exports was 17 mln liters per day due to a 6.3% increase compared to the preceding year.

Furthermore, in that year, the production of some oil products in the total national refineries by cum/day is: liquefied gas 8362; motor spirit 18519, burning oil 18519 and gas oil 88702 which shows a 3.6, 15.6, -13.2 and 4.4 percent change compared to the preceding year.

Also in the same year, Abadan refinery with total 61146 cu m of oil products per day had the maximum share among the refineries of the country and Esfahan and Bandar Abbas stood at the second and third rank respectively.

In the year 1388, oil gas with the consumption of 33817 thousand cu m per day had the maximum share of consumption among all kinds of oil products and motor spirit with 23652 thousand cu m/day was at the second rank.

With a glance at the amount of oil products consumption in Ostans of the country, four Ostans including Tehran with 12.8 %, Esfahan with 10.3 %, Khorasan-e-Razavi with 6.2 % and Fars with 5.5 % comprise a total of 34.7 % of the total consumption of the country.

In the year 1388, the amount of motor spirit imports with an 1.6% increase reached 7665 mln liters. Also in 1387, the amount of gas delivered to the National Iranian Gas Company with a 9.4% increase reached 148097 mln cu m compared to the year 1386.

In the year 1388, out of 1105 cities of the country, 792 cities were supplied with piped gas and 57 cities were being supplied with piped gas which shows that 72 % of the country's cities are supplied with the piped gas. Meanwhile Ostans of Hamedan, Markazi, Qom and Chaharmahale & Bekhtiyari with 100% of piped gas cities stands at the first rank. The total production of the National Company of the Petrochemical Industries with a 14.6% increase compared to the preceding year reached 34433 thousand tons in 1388. Out of this amount, 14198 thousand tons valuing US \$ 9274 mln have been exported which shows a 15.9 and 18.2 percent increase, by volume and value respectively compared to the previous year.

6. 1. CRUDE OIL PRODUCTION CAPACITY**(mln barrels)**

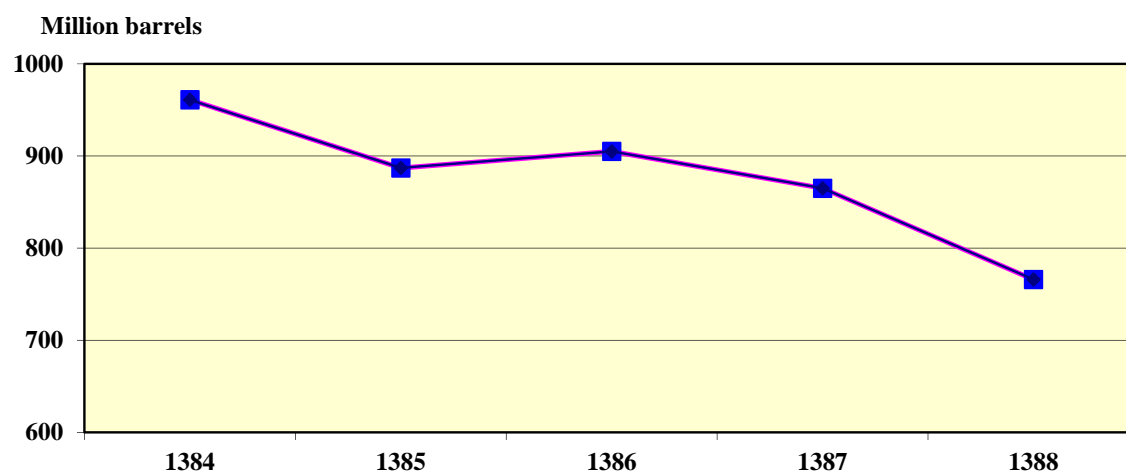
Description	1370	1375	1380	1384	1385	1386	1387	1388
Capacity	1248	1417	1533	1493	1561	1582	1601	000

*Source: Ministry of Oil.***6. 2. CAPACITY OF DOMESTIC OIL REFINERIES****(1000 barrels)**

Refinery	1370	1375	1380	1384	1385	1386	1387	1388
Total	361903	498296	501510	532535	491655	488005	521550	520125
Abadan	87859	143564	000	146000	127750	127750	128100	127750
Arak	×	63035	000	54750	54750	54750	54900	54750
Esfahan	121286	130018	000	91250	73000	73000	73200	73000
Bandar Abbas	×	×	000	84680	84680	84680	117120	116800
Tabriz	32089	41098	000	40880	40150	40150	40260	40150
Tehran	86650	85071	000	82125	80300	80300	80520	80300
Shiraz	15696	16256	000	14600	14600	14600	14640	14600
Kermanshah	10436	8564	000	10950	9125	5475	5490	5475
Lavan (distillation complex)	7887	10691	000	7300	7300	7300	7320	7300

*Source: Ministry of Oil.***6. 3. DIRECT EXPORT OF CRUDE OIL AND OIL PRODUCTS**

Description	1370	1375	1380	1384	1385	1386	1387	1388
Crude oil (1000 barrels)	901678	930006	730000	961155	887881	905086	865342	750537
Oil products (mln lit/day)	14	28	42	38	42	32	16	17

*Sources: Ministry of Oil.***6. 1. DIRECT EXPORT OF CRUDE OIL**

For data see Table 6. 3.

6. 4. AVERAGE PRODUCTS OF REFINERIES**(cum/day)**

Product	1370	1375	1380	1384	1385	1386	1387	1388
Total.....	149363	206752	(1)245891	250987	(1)257313	(1)256633	(1)261506	(1)267628
Liquefied gas.....	5546	7341	8298	8204	8016	7723	8071	8362
Motor spirit	23586	28321	(1)37128	41332	(1)44664	(1)45080	(1)51496	(1)59515
Burning oil	19371	25221	27160	20269	21048	21680	21347	18519
Gas oil	41614	57870	70879	79214	80473	81549	84957	88702
Fuel oil	50170	68650	80152	76136	76205	73020	77132	76101
Jet fuels	2028	2323	3098	2929	3600	3426	3519	4188
Lubricants.....	645	1098	1221	000	000	000	000	000
Bitumen	5362	7593	8284	672	859	976	616	698
Other products (2).....	1041	8337	10382	22231	24107	24837	22848	27879

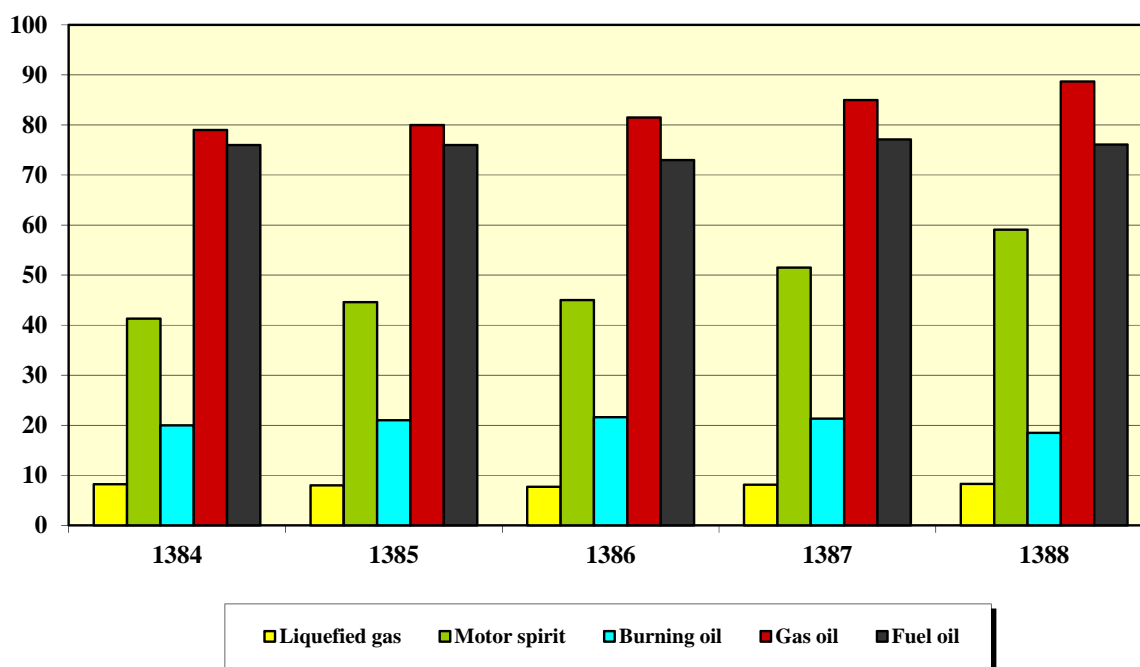
1. Motor spirit includes basic gasoline, MTBE, consumption super gasoline etc; however MTBE and consumption super gasoline are not included in the total.

2. Other oil products excludes semi-finished products, gas, hydrogen and sulfur.

Sources: Ministry of Oil.

6. 2. SELECTED OIL PRODUCTS OF REFINERIES

1000 cu m/day



For data see Table 6. 4.

6. 5. AVERAGE OIL PRODUCTS BY REFINERY

(cu m/day)

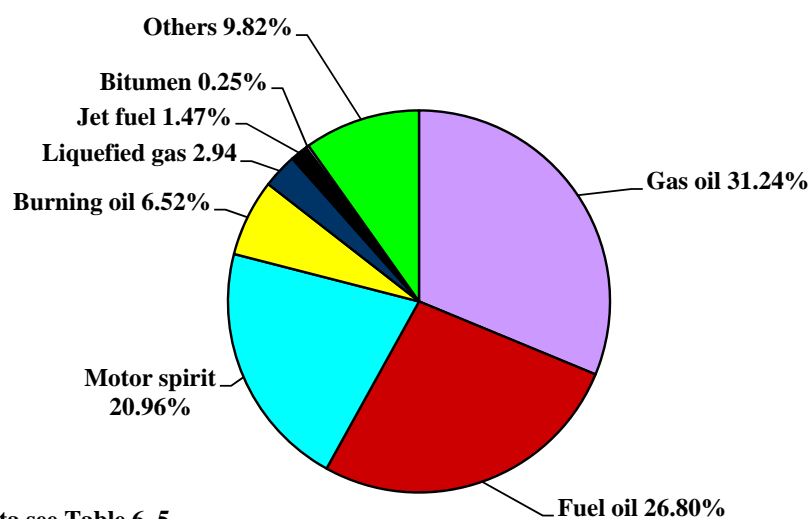
Year and product	Total	Abadan	Arak	Esfahan	Bandar Abbas	Tabriz	Tehran	Shiraz	Kerma nshah	Lavan (distillation complex)
1370.....	149363	36842	×	50295	×	12853	35578	6145	4313	3337
1375.....	206752	61009	25978	53788	×	16944	34509	6510	3563	4451
1380.....	245891	54486	25142	53947	41640	16668	37659	9113	3350	3885
1384.....	250987	52961	25891	58801	42684	17428	37210	8114	3593	4305
1385.....	257313	57485	28232	56649	42488	17031	38380	8975	3658	4417
1386.....	⁽¹⁾ 256633	59789	27654	58196	42349	16237	35748	8738	3434	4486
1387.....	⁽¹⁾ 261506	63431	27048	56554	43939	17429	36123	8820	3395	4767
1388.....	⁽¹⁾267628	61146	26275	57889	49682	17087	38713	8825	3545	4465
Liquefied gas	8362	1509	941	2084	1316	576	1492	258	135	51
Motor spirit	⁽¹⁾ 59515	12875	4378	12506	14837	2651	7764	2505	984	1013
Burning oil	18519	3608	2721	3520	3322	2002	2504	238	604	0
Gas oil	88702	18516	8890	20159	14727	6176	14316	3115	1060	1743
Fuel oil	76101	23933	6374	12229	17058	3599	7888	1881	1479	1659
Jet fuels	4188	28	385	1530	405	0	1621	219	0	0
Lubricants	000	000	000	000	000	000	000	000	000	000
Bitumen	698	358	0	0	0	0	0	339	0	0
Other products ⁽²⁾	27879	5089	2584	9950	3085	2344	4482	847	-503	0

1. Motor spirit includes basic gasoline, MTBE, consumption super gasoline etc; however MTBE and consumption super gasoline are not included in the total.

2. Other oil products excludes semi-finished products, gas, hydrogen and sulfur.

Sources: Ministry of Oil.

6. 3. AVERAGE PRODUCTION OF VARIOUS OIL PRODUCTS, 1388



For data see Table 6. 5.

6. 6. CONSUMPTION OF OIL PRODUCTS**(1000 cu m)**

Product	1370	1375	1380	1384	1385	1386	1387	1388
Motor spirit ⁽¹⁾	8991	12056	16723	24415	26887	23526	24482	23652
Jet fuel G.P.4.....	237	165	157	120	99	93	105	94
Jet fuel A. T. K....	445	716	943	1028	1155	1180	1183	1384
Burning oil	8774	11148	8954	7446	7199	7470	6740	6496
Gas oil	20164	22873	25215	28718	31471	32760	33606	33817
Fuel oil	12842	15580	15245	13355	15644	16539	17210	16408
Lubricants	346	330	390	000	000	000	000	000
Bitumen	2038	2713	2100	000	⁽²⁾ 4202	4364	3629	4507
Liquefied gas	2694	3366	4163	4026	3922	3990	4016	4380
Crude lubricants	297	392	351	000	1668	1597	1290	784
Benzine solvents	13	-	12	000	42	50	37	27
Naphtha	60	143	2	000	42	49	37	36

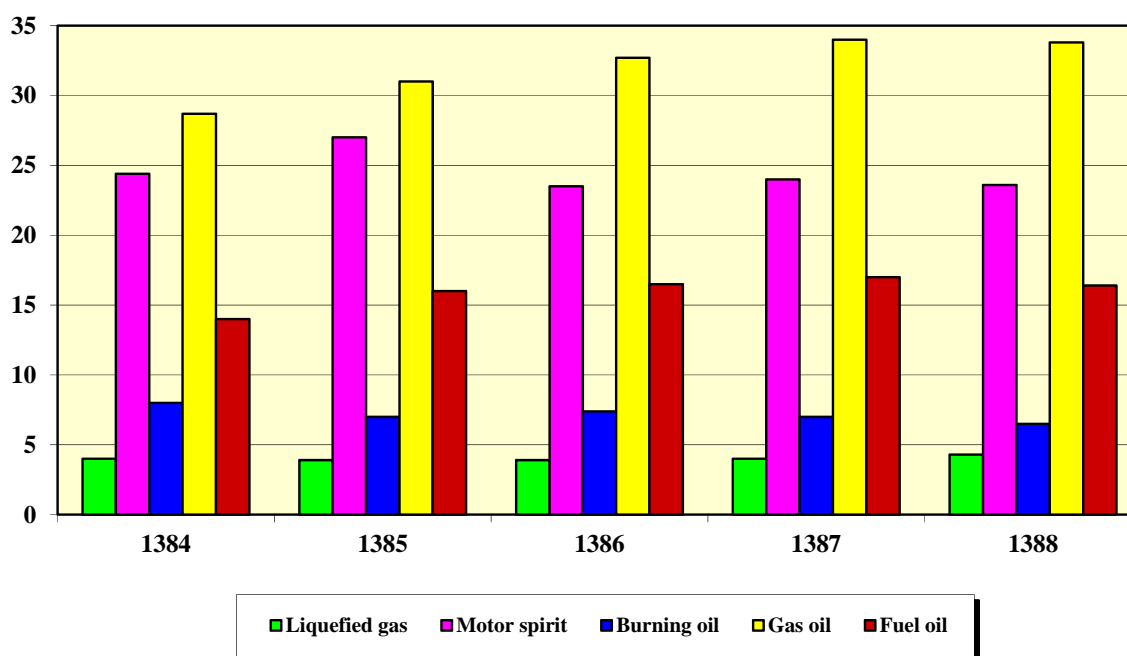
1. Including regular, super, and unleaded gasoline.

2. Unit of measurement is regarded as thousand tons and includes VB (primary material of tar) as well.

Sources: Ministry of Oil.

6. 4. CONSUMPTION OF SOME OIL PRODUCTS

Million cu m



For data see Table 6. 6.

6. 7. CONSUMPTION⁽¹⁾ OF MAJOR OIL PRODUCTS BY OSTAN, 1388 (cu m)

Ostan	Gasoline	Burning oil	Gas oil	Fuel oil ⁽²⁾	Liquefied gas ⁽³⁾
Total country	23651758	6496462	33817288	16407742	000
East Azarbayejan	964919	239744	1014327	1489507	000
West Azarbayejan	797612	769772	1262628	349656	000
Ardebil	320490	174199	547208	32793	000
Esfahan	1805783	402240	3193589	2865360	000
Ilam	150151	110162	217623	88143	000
Bushehr	373589	33692	828285	243728	000
Tehran	5394876	267884	3642063	953948	000
Chaharmahal & Bakhtiyari	230230	69610	253887	21410	000
South Khorasan	160768	130980	446855	180058	000
Khorasan-e-Razavi	1639609	611083	2021095	678815	000
North Khorasan	177901	132777	262862	52507	000
Khuzestan	1234331	76940	2495506	488394	000
Zanjan	288274	173443	445229	109832	000
Semnan	259207	37854	577777	180677	000
Sistan & Baluchestan	726160	335904	2121993	694249	000
Fars	1566939	304951	2106962	404702	000
Qazvin	417376	129552	1026839	1468460	000
Qom	388704	20690	643692	228428	000
Kordestan	378188	363758	625885	34031	000
Kerman	944640	196199	1813154	492833	000
Kermanshah	493089	381881	674648	815427	000
Kohgiluyeh & Boyerahmad	172752	59046	144847	8927	000
Golestan	408051	131138	529965	77055	000
Gilan	870581	373611	840878	12714	000
Lorestan	373144	221514	592253	101588	000
Mazandaran	1228714	345636	1097014	1088800	000
Markazi	458295	108078	1163708	1046616	000
Hormozgan	549952	21345	1355319	802597	000
Hamedan	432404	164654	631113	797577	000
Yazd	445029	108125	1240084	598910	000

1. Consumption statistics include borderline sales and excludes Banking and exports.

2. Including fuel for power plants.

3. Information relates to local shipment.

Source: Ministry of Oil.

6. 8. IMPORTS OF OIL PRODUCTS BY TYPE**(mln/lit)**

Product	1370	1375	1380	1384	1385	1386	1387	1388
Total	⁽¹⁾ 7436	4395	2840	9162	11897	9497	11262	9919
Motor spirit	635	988	2840	9056	10038	6957	7543	7665
Burning oil	2309	1976	0	0	0	0	0	0
Gas oil	4298	1427	0	106	1858	2540	⁽²⁾ 3719	2254
Aviation spirit	0	4	0	000	2	0	0	000

1. Difference between the total and sum of parts is due to the inclusion in the total of imports of 194 million litres motor oils in the year 1370.

2. Imports of gas oil includes the total gas oil imports and shipment of Heavy End from the petrochemistry.

Sources: Ministry of Oil.

6. 9. TRANSPORTATION OF OIL PRODUCTS BY MEANS OF TRANSPORT**(Mln ton kms)**

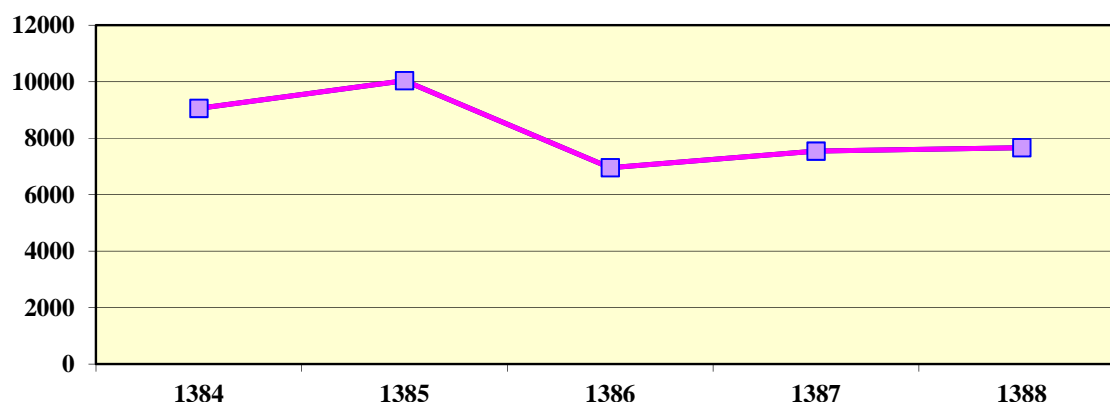
Means of transport	1370	1375	1380	1384	1385	1386	1387	1388
Total	19575	22809	32429	35297	39185	38001	41813	40899
Pipelines	12534	15347	21056	23877	25194	25138	27492	27721
Railway	1560	1804	1977	1782	2547	2171	2282	1914
Road vehicles	4531	5643	7893	7968	8995	8726	8268	8574
Tankers	950	⁽¹⁾ 15	1503	1670	2449	1966	3771	2690

1. Excluding oil products transport by large vessels.

Sources: Ministry of Oil.

6. 5. IMPORTED VOLUME OF MOTOR SPIRIT

Million litres



For data see Table 6. 8.

6. 10. PRODUCTION OF ENRICHED GAS BY SOURCE OF PRODUCTION (mln cu m/day)

Resource	1370	1375	1380	1384	1385	1386	1387	1388
Total.....	204	234	312	435	464	506	552	583
Associated gas	71	83	88	95	96	100	101	101
Gas cap.....	58	53	51	39	38	40	42	37
Gas of independent gas fields	76	97	172	301	330	366	409	445

Source: Ministry of Oil.

6. 11. PRODUCTION OF SWEET GAS BY SOURCE OF PRODUCTION (mln cu m/day)

Resource	1370	1375	1380	1384	1385	1386	1387	1388
Total.....	132	166	257	362	364	403	432	469
Associated gas	29	32	37	40	41	44	⁽¹⁾ 44	⁽³⁾ 42
Gas cap.....	37	45	49	29	30	28	31	28
Gas of independent gas fields	66	89	171	293	293	330	⁽²⁾ 357	⁽⁴⁾ 399

1. From the total sweet gas refined from associated gases sources, 0.31 million cubic meters per day are from the output of Khark petrochemistry and the rest is from the output of gas and liquified gas manufacturers.

2. Including sweet gas produced in gas refineries and liquified gas 1600 and gas manufacturers; the information of sweet gas produced in refineries is based on the operation report of the National Gas Company.

3. From the total sweet gas refined from associated gases sources, 0.26 million cubic meters per day are from the output of Khark petrochemistry, and the rest is from the output of gas and liquified gas manufacturers, 0.13 million cubic meters per day are from the output of Masjed Soleyman refineries, and the rest is from the output of gas and liquified gas manufacturers.

4. Including sweet gas produced in gas refineries and liquified gas 1600 and gas manufacturers and the output of Marun Separation Unit; the information of sweet gas produced in refineries is based on the operation report of the National Gas Company.

Sources: Ministry of Oil.

6. 12. CONSUMPTION OF NATURAL GAS (mln cu m)

Description	1370	1375	1380	1384	1385	1386	1387	1388
Flared gas	11090	12737	000	15837	15851	15740	⁽¹⁾ 15356	⁽¹⁾ 15696
Gas delivered to National Iranian Gas Company ⁽²⁾	21900	43220	66007	108288	117256	135332	⁽²⁾ 148097	000
Gas injection	17385	21404	27521	28163	26663	25971	28448	28840

1. Excluding flared gas in refineries and southern Pars complexes.

2. Gas delivered by National Iranian Gas Company includes extraction of ethane and liquefied gas.

Source: Ministry of Oil.

6. 13. CITIES SUPPLIED OR BEING SUPPLIED WITH PIPED GAS AT THE END OF THE YEAR

Year and Ostan	Number of cities	Cities supplied with piped gas ⁽¹⁾		Cities being supplied with piped gas ⁽²⁾
		Number of cities	Number of household	
1375	678	223	000	69
1380	889	400	000	79
1384	1015	570	000	99
1385	1016	615	11457949	82
1386	1061	661	12026276	87
1387	1082	⁽³⁾ 687	⁽³⁾ 8872395	⁽³⁾ 83
1388	1105	792	15713784	57
East Azarbayejan	58	55	979317	1
West Azarbayejan	38	32	555624	1
Ardebil	23	19	219529	3
Esfahan	98	89	1386985	4
Ilam	21	4	33111	0
Bushehr	31	15	14467	5
Tehran	56	54	4562350	0
Chaharmahal & Bakhtiyari	27	27	173568	0
South Khorasan	23	5	56125	4
Khorasan-e-Razavi	72	55	1384757	4
North Khorasan	18	15	139053	0
Khuzestan	55	45	617777	3
Zanjan	18	11	175993	1
Semnan	17	15	183909	1
Sistan & Baluchestan	37	0	0	0
Fars	86	59	768039	6
Qazvin	25	21	267770	1
Qom	6	6	277143	0
Kordestan	25	19	245855	2
Kerman	62	29	328766	5
Kermanshah	29	13	298713	8
Kohgiluyeh & Boyerahmad	16	13	92253	0
Golestan	25	24	312880	1
Gilan	51	45	552313	2
Lorestan	23	14	266708	0
Mazandaran	52	36	836723	4
Markazi	31	31	315647	1
Hormozgan	31	2	5	0
Hamedan	27	27	398931	0
Yazd	24	12	269473	0

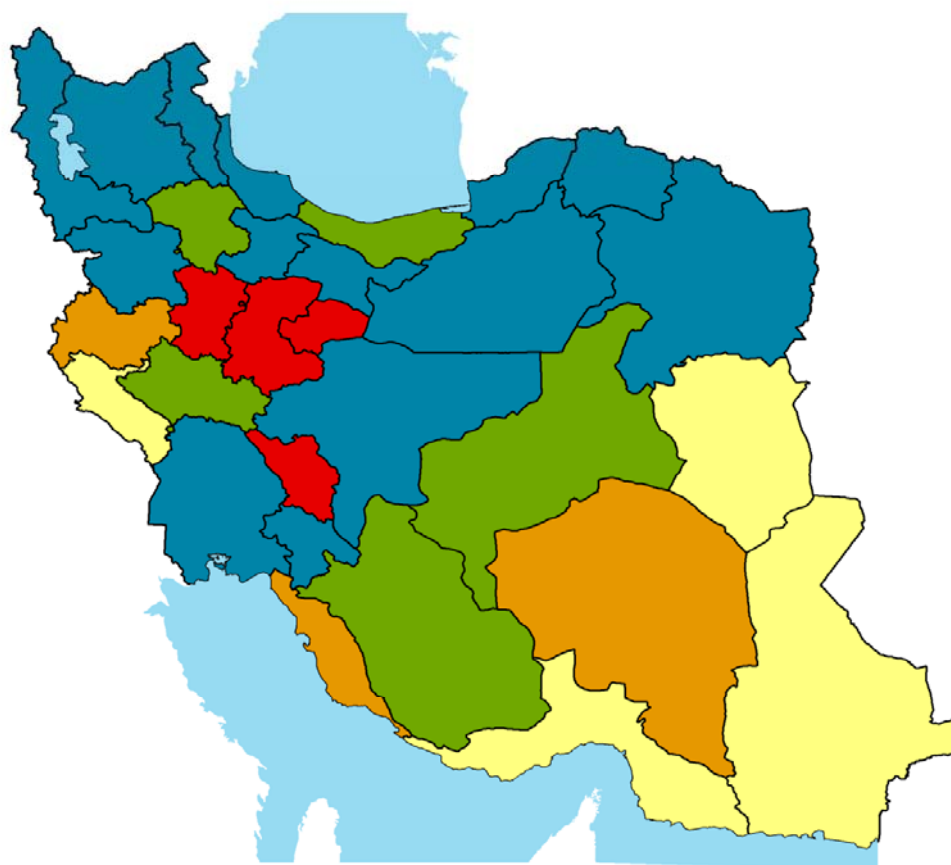
1. Including all cities parts of which are gas consumers.

2. Including cities where piped gas supply operations have already started.

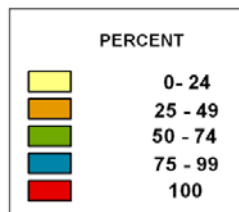
3. Excluding Tehran.

Sources: Ministry of the Interior;
Ministry of Oil.

6.6. PERCENTAGE OF CITIES SUPPLIED WITH PIPED GAS, 1388



For data see Table 6.13.



6.14. VILLAGES SUPPLIED OR BEING SUPPLIED WITH PIPED GAS AND HOUSEHOLDS COVERED IN THIS PROGRAMME AT THE END OF THE YEAR.

Year and Ostan	Number of village	Villages supplied with piped gas(1)		Villages being supplied with piped gas(2)
		Number	Number of household	
1375	000	000	000	000
1380	000	000	000	000
1384	000	000	000	000
1385	47313	4199	000	2250
1386	48237	5659	1129085	3733
1387	36914	7364	1364119	2635
1388	40675	8705	1939493	2711
East Azarbayejan.....	2751	787	210244	188
West Azarbayejan	2756	133	37325	104
Ardebil	1722	205	32996	52
Esfahan.....	935	686	153914	154
Ilam	108	8	1412	39
Bushehr	398	28	4889	9
Tehran	666	456	227655	86
Chaharmahal & Bakhtiari	821	249	52681	133
South Khorasan	974	1	0	14
Khorasan-e-Razavi.....	3582	489	113578	123
North Khorasan	479	169	32266	21
Khuzestan.....	4003	462	70049	252
Zanjan	937	81	17933	46
Semnan.....	425	127	23354	1
Sistan & Baluchestan	000	000	000	000
Fars.....	769	535	65610	230
Qazvin	899	127	38223	123
Qom.....	129	71	12869	10
Kordestan	1740	249	30809	137
Kerman.....	2500	173	47842	88
Kermanshah	1344	116	17068	138
Kohgiluyeh & Boyerahmad	283	230	11105	53
Golestan	984	439	104961	96
Gilan.....	2694	683	140396	87
Lorestan.....	2857	143	23812	58
Mazandaran.....	3122	1198	285396	66
Markazi	1232	350	59565	96
Hormozgan.....	000	000	000	000
Hamedan	1084	465	106123	84
Yazd	481	45	17418	223

1. Including all villages parts of which are gas consumers.

2. Including villages where piped gas supply operations have already started.

Source: Ministry of Oil.

6. 15. TYPES OF GAS EXTENSIONS⁽¹⁾, NATURAL GAS CONSUMERS BY TYPE AT THE END OF THE YEAR

Year and Ostan	Extension (number)	Natural gas consumers (consumer)				Consumption (mln cu m/year)
		Total	Residential	Commercial	Industrial	
1370	1373828	1241662	1206696	33988	978	000
1375	2420738	2905678	2811331	92863	1484	000
1380	3719086	5025658	4828282	194078	3298	000
1384	5703103	8401358	8007704	383519	10135	94946
1385	6170548	9292175	8839347	439264	13564	100588
1386	6586460	10184436	000	000	000	114469
1387	7001815	11097058	10502309	572583	22166	122708
1388.....	7509908	12151000	11472673	650498	27829	135177
East Azarbayejan	486413	909407	823995	84142	1270	6631
West Azarbayejan	253080	471501	433090	37961	450	3138
Ardebil	135204	230066	213295	16146	625	1433
Esfahan	812865	1145770	1098339	43430	4001	15163
Ilam	28616	33496	33111	381	4	77
Bushehr	24811	12970	12699	260	11	8539
Tehran	1319222	2243783	2085242	151636	6905	24003
Chaharmahal & Bakhtiari	126291	180486	171101	8816	569	1031
South Khorasan	32516	50971	49628	1328	15	403
Khorasan-e-Razavi	567152	1209097	1156278	50763	2056	9641
North Khorasan	84419	139180	129373	9603	204	2105
Khuzestan	398199	481391	470553	10565	273	12766
Zanjan	98396	151501	141883	9179	439	987
Semnan	90984	160851	149237	10608	1006	1197
Sistan & Baluchestan ...	0	0	0	0	0	0
Fars	470170	712360	682132	29145	1083	8809
Qazvin	128309	215991	201641	13290	1060	3870
Qom	142598	242756	232272	9483	1001	2033
Kordestan	136498	216837	203971	12325	541	1871
Kerman	194935	294896	284509	10123	264	3159
Kermanshah	164474	295295	284489	10744	62	2583
Kohgiluyeh & Boyerahmad	61858	84326	81380	2864	82	500
Golestan	192430	291710	282207	9327	176	1460
Gilan	325114	510275	479702	29762	811	4566
Lorestan	144394	262389	252978	9290	121	1412
Mazandaran	509489	716624	681369	33140	2115	5547
Markazi	199061	315090	296574	16633	1883	4318
Hormozgan	743	5	1	1	3	3893
Hamedan	240419	347955	328895	18773	287	2230
Yazd	141248	224021	212729	10780	512	1812

1. Including extensions not yet utilized.

Source: Ministry of Oil.

6. 16. LIQUEFIED GAS DELIVERED BY REFINERIES FOR DISTRIBUTION (1000 tons)

Year	Total	Abadan	Arak	Esfahan	Bandar Abbas	Tabriz	Tehran	Shiraz	Kermanshah	Reservation centres ⁽¹⁾
1370.....	⁽²⁾ 1498	237	×	465	×	118	225	38	15	261
1375.....	1829	312	173	492	×	130	257	47	28	389
1380.....	1395	310	175	442	235	134	23	49	26	0
1384.....	1609	289	178	444	207	130	283	54	24	0
1385.....	1489	295	189	392	201	101	234	54	23	0
1386.....	1571	293	209	426	198	110	260	50	25	0
1387.....	000	000	000	000	000	000	000	000	000	000
1388.....	1903	304	191	423	267	116	523	52	27	000

1. Since 1370, shipment from Rey reservoir has been included elsewhere.

2. Difference between the total and sum of parts is due to 139 thousand tons liquefied gas delivered from Mahshahr & Marun.

Sources: Ministry of Oil.

6. 17. TOTAL PRODUCTION⁽¹⁾ OF NATIONAL PETROCHEMICAL COMPANY BY MAIN CATEGORIES (1000 tons)

Category	1375	1380	1384	1385	1386	1387	1388
Total.....	10007	12543	15756	⁽²⁾18000	⁽²⁾23869	⁽²⁾30040	⁽²⁾34433
Polymers	594	780	988	1396	1420	1812	3193
Chemicals.....	2262	3070	4477	5178	6372	9555	10771
Aromatics	407	1032	1180	1241	1506	2027	2124
Hydrocarbons	2293	2911	4511	5787	9484	10514	11906
Fertilizers, pesticides and related materials	4451	4750	4600	4398	5087	6132	6439

1. Including internal consumption of petrochemical complexes.

2. Including existing complexes and three entrusted complexes, Arak, Esfahan and Khark.

Source: Ministry of Oil.

6. 18. QUANTITY AND VALUE OF NPC'S DOMESTIC SALES BY MAIN CATEGORIES (1000 tons; bln rials)

Category	1375		1380		1384		1385		1386		1387		1388	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Total.....	3140	2117	4180	6053	4893	16052	⁽¹⁾6066	⁽¹⁾26520	⁽¹⁾6383	⁽¹⁾32307	⁽¹⁾7566	⁽¹⁾40056	⁽¹⁾7870	⁽¹⁾46788
Polymers	434	1029	741	3300	867	6914	1063	9681	1152	11367	1300	15468	1445	16513
Chemicals.....	389	394	580	1016	898	3417	1018	5033	909	5733	1078	5276	1361	7985
Aromatics	95	114	248	512	202	1313	497	4539	538	4739	502	4441	572	4925
Hydrocarbons	425	136	501	316	941	3185	1554	6003	1653	8414	2197	11537	2489	12885
Fertilizers, pesticides and related materials	1797	444	2110	909	1985	1223	1934	1264	2131	2054	2489	3334	2003	4480

1. Including existing complexes and three entrusted complexes, Arak, Esfahan and Khark.

Source: Ministry of Oil.

6. 19. QUANTITY AND VALUE OF NPC'S EXPORTS BY MAIN CATEGORIES (1000 tons; mln dollars)

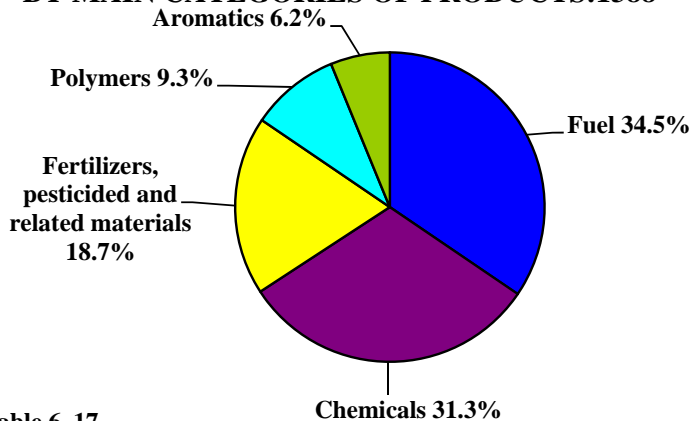
Category	1375		1380		1384	
	Quantity	Value	Quantity	Value	Quantity	Value
Total	2656	507	4011	795	5216	2323
Polymers	128	70	142	73	174	193
Chemicals.....	332	93	651	118	1398	480
Aromatics	175	48	385	117	564	471
Hydrocarbons	1255	235	2010	442	2325	1084
Fertilizers, pesticides and related materials	766	61	823	45	755	95

Category	1385		1386		1387		1388	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Total	⁽¹⁾6044	⁽¹⁾3299	⁽¹⁾9530	⁽¹⁾6060	⁽¹⁾12254	⁽¹⁾7843	⁽¹⁾14198	⁽¹⁾9274
Polymers	360	429	300	398	826	858	1693	1729
Chemicals.....	1687	774	3203	1432	3160	1751	3790	3133
Aromatics	440	454	598	636	732	610	687	553
Hydrocarbons	3010	1545	4471	3336	6115	4026	6210	3456
Fertilizers, pesticides and related materials	547	97	958	258	1421	599	1818	403

1. Including existing complexes and three entrusted complexes, Arak, Esfahan and Khark.

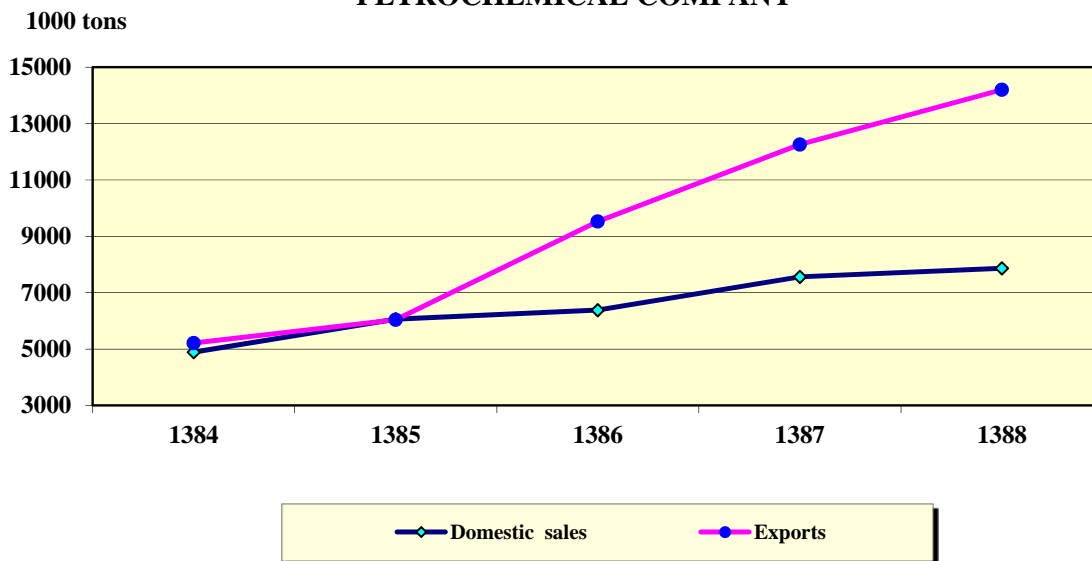
Source: Ministry of Oil.

**6. 6. TOTAL PRODUCTION OF NATIONAL PETROCHEMICAL COMPANY
BY MAIN CATEGORIES OF PRODUCTS:1388**



For data see Table 6. 17.

**6.7. VOLUME OF DOMESTIC SALES AND EXPORTS BY THE NATIONAL
PETROCHEMICAL COMPANY**



For data see Tables 6.18 and 6.19.