

A LONG-RANGE ENERGY PLAN FOR IRAN

Appendix VIII Low Gas Use Scenario

Final Report

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CONTENTS

	<u>Report Number</u>
Economic Data.	100-123
Petroleum Product Demand	200-223
Natural Gas Demand	300-323
Solid Fuel Demand in Total Iran.	400
Electricity Consumption.	500-523
Conversion Factors	600
Elasticity Parameters and Price Levels--Electricity Forecast	601
Industrial Electricity Use and Self-Generation	602
Miscellaneous Forecasting Factors.	603
Consumer Prices for Petroleum Products and Natural Gas	604
Elasticity Parameters and Specific Energy Consumption.	605
Residential and Commercial Gas Use	606
Nonenergy Intensive Industry Gas Use	607
Cement, Brick, and Sugar Industry Gas Use.	608
Nonenergy Intensive Industry Gas Use	609
Relative Growth Rates of Petroleum Products, Residential and Commercial--LPG to Total Oil	610
Relative Growth Rates of Petroleum Products, Residential and Commercial--Gas Oil to Total Oil	611
Relative Growth Rates of Petroleum Products, Residential and Commercial--Fuel Oil to Total Oil.	612
Jet Fuel (ATK) Market Share by Region.	613
Petrochemical Feedstocks	614
Projected Annual Load Factors for MOE System at Customer Terminals.	615
Projected Nonsimultaneous Peak Load for MOE System at Customer Terminals	616
Overall Characteristics of MOE System.	617
Load Duration Curves for MOE System.	618

Report
Number

Jet Fuel (JP4) Market Share by Region.	619
Regional Refining Capacity by Product.	620
Residential and Commercial Energy Demand	700-723
Industrial Demand for Primary Energy	800-823
Summary of Petroleum Product Supply and Demand for Total Iran	900
Summary of Petroleum Product Supply and Demand for Markazi Region	901
Summary of Petroleum Product Supply and Demand for Mashhad Region	902
Summary of Petroleum Product Supply and Demand for Azarbayan Region.	903
Summary of Petroleum Product Supply and Demand for Kermanshah Region.	904
Summary of Petroleum Product Supply and Demand for Esfahan Region	905
Summary of Petroleum Product Supply and Demand for Fars Region.	906
Summary of Petroleum Product Supply and Demand for Inland Regions	907
Summary of Petroleum Product Supply and Demand for Persian Gulf Region.	908
Primary Energy Demand by End Use	1000-1023
Gross Regional Product	2101
Population	2103
Employment in Industry and Mines	2104
Employment in Agriculture.	2105
Steel Production	2106
Sugar Production	2108
Cement Production.	2109
Brick Production	2110
Primary Energy Input to Petrochemical Industry	2111
Passenger Vehicles	2112
Total Liquefied Petroleum Gas Demand	2201
Total Motor Gasoline Demand.	2202

Report
Number

Total Kerosene Demand.	2203
Total Gas Oil Demand	2204
Total Fuel Oil Demand.	2205
Total Other Petroleum Products Demand.	2206
Total Domestic Petroleum Products Demand	2207
Sugar Production	2220
Cement Production--Regional Share.	2221
Natural Gas Demand for Residential and Commercial Use.	2301
Natural Gas Demand for Electric Power Generation	2302
Natural Gas Demand for Industrial Use.	2303
Total Domestic Natural Gas Demand.	2304
Electricity Consumption from Ministry of Energy Systems.	2501
Electricity Consumption from Private Systems	2502
Residential and Commercial Electricity Consumption	2503
Nonenergy-Intensive Industrial Electricity Consumption	2504
Total Industrial Electricity Consumption	2505
Grand Total Electricity Consumption.	2506
Grand Total Electricity Consumption per Capita	2507

Province Numbers*

- 00 Total Iran
- 01 Markazi
- 02 Mazandaran
- 03 Guilan
- 04 Azarbayjan Sharghi
- 05 Azarbayjan Gharbi
- 06 Zanjan
- 07 Kordestan
- 08 Hamadan
- 09 Kermanshahan
- 10 Lorestan
- 11 Ilam
- 12 Khuzestan
- 13 Chahar-Mohal Bakhtyari
- 14 Boyer-Ahmad & Kohkiloych
- 15 Bushehr
- 16 Fars
- 17 Saheli-Jonoob
- 18 Kerman
- 19 Sistan & Baluchestan
- 20 Khorassan
- 21 Semnan
- 22 Yazd
- 23 Esfahan

* In report Series 100, 200, 300, 500, 700, 800, and 1000, the last two digits of the report number identify the province. For example, report number 106 gives economic data for Zanjan Province.

LOW GAS GROWTH SCENARIO

REPORT 100
ECONOMIC DATA FOR TOTAL IRAN
HISTORY PROJECTION

	1970	1972	1974	1977	1982	1987	1992	1997
1 *BILLIONS OF 2531 RIALS								
2 GROSS NATIONAL PRODUCT(GNP)	917.9	1183.1	1243.4	1361.7	1387.8	17916.5	12180.5	14616.8
3 VALUE ADDED CIL AND GAS	171.7	231.5	1048.4	1433.8	1398.3	1349.8	1202.0	980.1
4 VALUE ADDED INDUSTRY	181.7	246.5	344.0	483.3	1059.6	2040.2	3595.5	5790.5
5 VALUE ADDED AGRICULTURE	193.8	201.8	226.4	265.8	347.5	454.1	593.5	775.7
6 GROSS REGIONAL PRODUCT(GRP)	697.8	894.5	1193.2	1862.5	3282.3	550.9	9316.8	14339.7
7 CONSUMPTION EXPENDITURES	721.5	916.3	1272.4					
8 HOUSEHOLD EXPENDITURES	547.7							
9 POPULATION (THOUSANDS)								
10 POPULATION (THOUSANDS)	29183.	31045.	32935.	35895.	41410.	47334.	53502.	59944.
11 DOLLARS/CAPITA (1972 DOLLARS)								
12 GNP/CAPITA	466.0	564.6	1009.3	1445.3	1927.5	2417.7	3372.6	4848.2
13 GRP/CAPITA	354.2	426.9	536.7	768.7	1174.3	1731.1	2580.7	3544.0
14 CONSUMPTION EXPENDITURES	366.3	437.3	572.4					
15 EMPLOYMENT (THOUSANDS)								
16 INDUSTRY AND MINES	2323.0	2618.0	2943.0	3123.1	4483.7	5325.2	6173.4	6984.6
17 INDUSTRY AND MINES	3400.0	3535.0	3646.0	3323.4	3097.2	2945.4	2801.1	2663.8
18 AGRICULTURE								
19 AVG GROWTH/INTERVAL(PCT/YR)								
20 *AVG GROWTH/INTERVAL(PCT/YR)								
*21 GROSS NATIONAL PRODUCT	11.59	37.70	16.00	9.00	9.00	9.00	9.00	10.00
*22 VALUE ADDED CIL AND GAS	15.18	112.81	111.00	7.50	7.50	7.50	7.50	-4.00
*23 VALUE ADDED INDUSTRY	13.00	18.13	12.00	17.00	14.00	14.00	12.00	10.00
*24 VALUE ADDED AGRICULTURE	3.88	5.92	5.50	5.50	5.50	5.50	5.50	5.50
*25 GROSS REGIONAL PRODUCT	11.44	15.50	16.00	12.00	12.00	12.00	11.00	9.00
*26 CONSUMPTION EXPENDITURES	11.89	17.84	3.00	2.91	2.91	2.71	2.48	2.30
*27 POPULATION	3.14	3.00	2.00	7.50	7.50	3.50	3.00	2.50
*28 INDUSTRIAL EMPLOYMENT	5.97	6.03	-1.20	-1.20	-1.20	-1.40	-1.00	-1.00
*29 AGRICULTURAL EMPLOYMENT	1.89							
30 *REGIONAL SHARE (PERCENT)								
31 *REGIONAL SHARE (PERCENT)								
32 GROSS REGIONAL PRODUCT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
33 HOUSEHOLD EXPENDITURES	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
34 POPULATION	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
35 INDUSTRIAL EMPLOYMENT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
36 AGRICULTURAL EMPLOYMENT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
37 *INDUSTRIAL PRODUCTION								
38 STEEL (THOUSANDS TONS/YR)	0	192.	582.	1900.	7850.	15500.	20600.	26900.
39 ALUMINUM (THOUSANDS TONS/YR)	0	10.	49.	50.	145.	170.	240.	480.
40 COPPER (THOUSANDS TONS/YR)	0	0.	0.	0.	855.	1450.	400.	400.
*41 SUGAR (THOUSANDS TONS/YR)	566.	581.	619.	7470.	1645.	24488.	3200.	3200.
*42 CEMENT (THOUSANDS TONS/YR)	2586.	3300.	4329.	17034.	2365.	31895.	37451.	41961.
*43 BRICK (THOUSANDS TONS/YR)	9945.	11060.	13139.	1716.	506.5	742.8	43047.	55086.
*44 PETROCHEMICALS (TRILLION/BTU)	60.7	70.9	99.2					
*45 *PASSENGER VEHICLES (THOUSANDS)	262.90	388.20	581.50	1193.57	2517.73	4431.96	7758.72	11880.98
*46 *AIR PASSENGER KM (MILLIONS)	696.02	904.79	1545.00	2784.22	5812.97	11440.20	22161.03	39504.87
*47 *VEHICLES (HUNDRED PERSONS)	*90	1.25	1.77	3.33	6.08	4.36	14.50	19.82
*48 *AIR PASSENGER KM/CAPITA	23.85	29.14	46.91	77.57	140.38	241.69	422.72	659.03

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

PAGE 100-1
11/09/77

LOW GAS GROWTH SCENARIO

REPORT 101

ECONOMIC DATA FOR MAHKAZI

	HISTORY		PROJECTION	
1 *BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533	2541
3 VALUE ADDED CIL AND GAS	1970	1972	1974	1982
4 VALUE ADDED INDUSTRY				2546
5 VALUE ADDED AGRICULTURE				1987
6 GROSS REGIONAL PRODUCT (GRP)				2551
7 CONSUMPTION EXPENDITURES				1992
8 HOUSEHOLD EXPENDITURES				2556
9				1997
10 **POPULATION (THOUSANDS)				
11				
12 **DOLLARS/CAPITA (1972 DOLLAR)	6039.	6645.	7189.	774.0
13 GNP/CAPITA				1343.8
14 GRP/CAPITA				9736.
15 CONSUMPTION EXPENDITURES				11658.
16 *EMPLOYMENT (THOUSANDS)	820.	1017.	1420.	13636.
17 INDUSTRY AND MINES				15280.
18 AGRICULTURE				
19				
20 **AVG GROWTH INTERVAL (PERCENT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION	15.85	16.20	16.66	10.44
28 INDUSTRIAL EMPLOYMENT	4.91	4.01	3.96	8.42
29 AGRICULTURAL EMPLOYMENT	5.64	6.14	5.75	
30	1.68	-2.02	-1.63	
31 **REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT	4.91	4.01	3.96	
33 HOUSEHOLD EXPENDITURES	35.86	21.40	1.75	
34 POPULATION	20.69	21.83	2.67	
35 INDUSTRIAL EMPLOYMENT	28.93	28.65	28.50	
36 AGRICULTURAL EMPLOYMENT	8.56	8.49	8.36	
37				
38 **INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	10.	49.	120.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	45.	36.	33.	30.
43 CEMENT (THOUSANDS TONS/YR)	863.	1215.	2277.	51.
44 BRICK (THOUSANDS TONS/YR)	4145.	5005.	5975.	2361.
45 PETROCHEMICALS (TRILLION BTU)	0.0	0.0	0.0	5847.
46				7758.
47 **PASSENGER VEHICLES (THOUSAND)	199.30	292.30	443.80	10684.
48 **AIR PASSENGER KM (MILLIONS)				10684.
49 **VEHICLES/HUNCHED PERSONS	3.28	4.40	6.17	14338.
				19125.
				0.0
				0.0
				24177.
				10490.
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LOW GAS GROWTH SCENARIO

REPORT 102

ECONOMIC DATA FOR MAZANDARAN

** HISTORY **

** PROJECTION **

2529	2531	2533	2536	2541	2546	2551
1970	1972	1974	1977	1982	1987	1992
9						
10 **POPULATION (THOUSANDS)	2053*	2163*	2278*	2448*	2779*	3138*
11 12 **DOLLARS/LARI (1972 DOLLAR)						
13 GNP/CAPITA	52.8	70.5	107.5	188.1	316.4	533.1
14 GNP/CAPITA	32.2					
15 CONSUMPTION EXPENDITURES	362*	459*	650*	1003*	1493*	2257*
16 **EMPLOYMENT (THOUSANDS)						
17 INDUSTRY AND MINES	104*	121*	135*	144*	229*	277*
18 AGRICULTURE	287*	270*	264*	249*	223*	199*
19 20 **AVERAGE GROWTH INTERVAL PCT/YR)						
21 GROSS NATIONAL PRODUCT						
22 VALUE ADDED-CIL AND GAS						
23 VALUE ADDED INDUSTRY						
24 VALUE ADDED AGRICULTURE						
25 GROSS REGIONAL PRODUCT						
26 CONSUMPTION EXPENDITURES						
27 POPULATION	2.68	2.62	2.43	2.57	2.46	2.20
28 INDUSTRIAL EMPLOYMENT	7.63	6.02	1.92	9.99	3.90	3.39
29 AGRICULTURAL EMPLOYMENT	-2.97	-1.68	-1.52	-2.20	-1.28	-1.00
30 31 **REGIONAL SHARE (PERCENT)						
32 GROSS REGIONAL PRODUCT	5.90	5.91	5.77	5.73	5.72	5.72
33 HOUSEHOLD EXPENDITURES	5.88					
34 POPULATION	6.97	6.92	6.82	6.71	6.63	6.54
35 INDUSTRIAL EMPLOYMENT	4.62	4.62	4.61	5.10	5.20	5.30
36 AGRICULTURAL EMPLOYMENT	8.44	7.64	7.57	7.50	7.20	7.10
37 38 **INDUSTRIAL PRODUCTION						
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*
42 SUGAR (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*
43 CEMENT (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*
44 BRICK (THOUSANDS TONS/YR)	516*	608*	776*	1074*	110*	1461*
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0	1452*	1965*
46 47 **PASSENGER VEHICLES (THOUSAND)						
48 **AIR PASSENGER KM (MILLIONS)	5.90	12.10	18.40	37.08	80.58	165.41
49 **VEHICLES/HUNDRED PERSONS	56	61	51	51	2.90	5.27

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 103

ECONOMIC DATA FOR GUILAN

	HISTORY		PROJECTION	
1 *BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533	2536
3 VALUE ADDED CIL AND GAS	1970	1972	1974	1977
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT (GRP)	34.6	46.3	72.4	130.3
7 CONSUMPTION EXPENDITURES				
8 HOUSEHOLD EXPENDITURES	31.6		174.8	207.9
9				
10 *POPULATION (THOUSANDS)	1466*	1558*	1651*	1748*
11 **DOLLARS/CAPITA (1972 DOLLAR)				
12 GNP/CAPITA				
13 GRP/CAPITA				
14 CONSUMPTION EXPENDITURES	329*	415*	597*	929*
15 EMPLOYMENT (THOUSANDS)				
16 *EMPLOYMENT (INDUSTRY AND MINES)	85.	102.	115.	122.
17 INDUSTRY AND MINES				
18 AGRICULTURE	272*	304*	297*	289*
19				
20 **AVG GROWTH/INTERVAL (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT	15.68		16.10	12.46
26 CONSUMPTION EXPENDITURES				
27 POPULATION	3.14	2.94	2.89	2.94
28 INDUSTRIAL EMPLOYMENT	9.43	6.18	2.02	7.99
29 AGRICULTURAL EMPLOYMENT	5.74	-1.16	-0.89	7.3
30				
31 *REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT	3.87	3.88	3.89	3.97
33 HOUSEHOLD EXPENDITURES	5.77	5.02	5.01	5.02
34 POPULATION	5.02	5.02	5.01	5.02
35 INDUSTRIAL EMPLOYMENT	3.66	3.90	3.91	4.00
36 AGRICULTURAL EMPLOYMENT	8.00	8.60	8.62	8.70
37				
38 **INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*
42 SUGAR (THOUSANDS TONS/YR)	0*	0*	0*	0*
43 CEMENT (THOUSANDS TONS/YR)	160*	173*	145*	314*
44 BRICK (THOUSANDS TONS/YR)	76*	90*	117*	164*
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0
46				
47 *PASSENGER VEHICLES (THOUSAND)	4.90	6.80	9.60	20.07
48 *AIR PASSENGER KM (MILLIONS)	.33	*44	*58	1.12
49 *VEHICLES/HUNDRED PERSONS				

PAGE 103-1
11/09/77

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

2556
19972551
1992

608.0

3021*

2981*

2135*

391*

333*

244*

226*

2696*

246*

388.6

2000*

130.3

226.8

2541

1982

2546

1987

2551

1992

LOW GAS GROWTH SCENARIO

REPORT 1

104

ECONOMIC DATA FOR AZARAYAN SHANGHAI

* * HISTORY * *

* * PROJECTION * *

	1970	1972	1974	1977	1982	1987	1992	1997
1 * * BILLIONS OF 1351 RIALS								
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533	2536	2541	2546	2551	2556
3 VALUE ADDED CIL AND GAS								
4 VALUE ADDED INDUSTRY								
5 VALUE ADDED AGRICULTURE								
6 GROSS REGIONAL PRODUCT (GRP)								
7 CONSUMPTION EXPENDITURES								
8 HOUSEHOLD EXPENDITURES								
9								
10 * * POPULATION (THOUSANDS)	2957.	3130.	3309.	3569.	4100.	4596.	5099.	5713.
11 * * DOLLARS/CAPITA (1972 DOLLAR)								
12 GNP/CAPITA								
13 GNP/CAPITA								
14 GHP/CAPITA								
15 CONSUMPTION EXPENDITURES								
16 * * EMPLOYMENT (THOUSANDS)	258.	330.	475.	767.	1191.	1868.	2646.	
17 INDUSTRY AND MINES								
18 AGRICULTURE								
19								
20 * * AVG GROWTH/INTERVAL (PCT/YR)								
21 GROSS NATIONAL PRODUCT								
22 VALUE ADDED CIL AND GAS								
23 VALUE ADDED INDUSTRY								
24 VALUE ADDED AGRICULTURE								
25 GROSS REGIONAL PRODUCT								
26 CONSUMPTION EXPENDITURES								
27 POPULATION	2.91	2.82	2.75	2.69	2.61	2.51	2.40	2.30
28 INDUSTRIAL EMPLOYMENT	6.02	5.99	1.65	6.78	3.50	2.29	2.32	
29 AGRICULTURAL EMPLOYMENT	3.81	-1.49	-1.64	-2.05	-1.67	-1.17	-1.17	
30								
31 * * REGIONAL SHARE (PERCENT)								
32 GROSS REGIONAL PRODUCT	6.09	6.17	6.16	6.47	6.68	6.90	7.12	
33 HOUSEHOLD EXPENDITURES	8.75	10.08	10.05	10.00	9.90	9.71	9.53	9.53
34 POPULATION	10.13	10.13	11.15	11.03	11.70	11.70	11.20	11.20
35 INDUSTRIAL EMPLOYMENT	11.19	11.15	12.45	12.30	11.90	11.50	11.40	11.30
36 AGRICULTURAL EMPLOYMENT	12.00	12.39						
37								
38 * * INDUSTRIAL PRODUCTION								
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*	0*	400*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*	0*	0*
42 SUGAR (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*	0*	0*	0*
43 CEMENT (THOUSANDS TONS/YR)	27.	236.	203.	478.	1163.	98.	116.	130.
44 BRICK (1 THOUSANDS TONS/YR)	362.	430.	557.	795.	1449.	2022.	2058.	
45 PETROCHEMICALS (TRILLION/BTU)	0*0	0*0	0*0	0*0	0*0	1996.	1511.	1976.
46								0*0
47 * * PASSENGER VEHICLES (THOUSANDS)	4.70	7.10	9.50	19.90	46.66	101.13	220.47	350.04
48 * * AIR PASSENGER KM (MILLIONS)								
49 * * VEHICLES/HUNDRED PERSONS	.16	.23	.29	.55	1.14	2.20	4.32	6.13

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPLETED VALUES.

ECONOMIC DATA FOR AZARBAYJAN GHARBI

	** HISTORY **		** PROJECTION **	
1 *BILLIONS OF 1351 RIALS	2529	2531	2533	2536
2 GROSS NATIONAL PRODUCT (GNP)	1970	1972	1974	1977
3 VALUE ADDED CIL AND GAS				
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT (GRP)	19.0	25.3	40.8	76.8
7 CONSUMPTION EXPENDITURES	22.0			
8 HOUSEHOLD EXPENDITURES				
9				
10 *POPULATION (THOUSANDS)	1205.	1266.	1336.	1443.
11				
12 *DOLLARS/CAPITA (1972 DOLLARS)				
13 GNP/CAPITA				
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES	223.	281.	419.	690.
16 *EMPLOYMENT (THOUSANDS)				
17 INDUSTRY AND MINES	44.	43.	49.	53.
18 AGRICULTURE	190.	200.	200.	199.
19				
20 *AVG GROWTH/INTERVAL (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES	15,27	17,26	13,49	14,37
27 POPULATION	2,57	2,73	2,60	2,69
28 INDUSTRIAL EMPLOYMENT	*.91	6,75	2,51	8,86
29 AGRICULTURAL EMPLOYMENT	2,36	0,00	-1,10	-1,07
30				
31 *REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT	2,13	2,12	2,19	2,34
33 HOUSEHOLD EXPENDITURES	4,02	4,06	4,02	3,98
34 POPULATION	4,13	4,08	4,02	3,95
35 INDUSTRIAL EMPLOYMENT	1,89	1,64	1,66	1,80
36 AGRICULTURAL EMPLOYMENT	5,59	5,66	5,80	6,00
37				
38 *INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*
42 SUGAR (THOUSANDS TONS/YR)	*3,	20*	38*	60*
43 CEMENT (THOUSANDS TONS/YR)	0*	0*	0*	0*
44 BRICK (THOUSANDS TONS/YR)	0*	461,	546,	720*
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0
46				
47 *PASSENGER VEHICLES (THOUSANDS)	1,80	2,60	3,50	7,77
48 *AIR PASSENGER KM (MILLIONS)				
49 *VEHICLES/HUNDRED PERSONS	.15	.21	.26	.54
NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.				

LOW GAS GROWTH SCENARIO

REPORT 105

PAGE 106-1
11/09/77

ECONOMIC DATA FOR ZANJAN

	** HISTORY **		** PROJECTION **	
	1970	1972	1974	1977
1 *BILLIONS OF 1351 RIALS	2529	2531	2533	2536
2 GROSS NATIONAL PRODUCT(GNP)				2541
3 VALUE ADDED CIL AND GAS				2546
4 VALUE ADDED INDUSTRY				2551
5 VALUE ADDED AGRICULTURE				2556
6 GROSS REGIONAL PRODUCT(GRP)				1992
7 CONSUMPTION EXPENDITURES				1997
8 HOUSEHOLD EXPENDITURES				
9				
10 **POPULATION (THOUSANDS)	502.	524.	546.	578.
11 **DOLLARS/CAPITA (1972 DOLLAR)				658.
12 GNP/CAPITA				748.
13 GRP/CAPITA				851.
14 CONSUMPTION EXPENDITURES				953.
15 EMPLOYMENT (THOUSANDS)	156.	201.	306.	539.
16 INDUSTRY AND MINES				598.
17 AGRICULTURE				1493.
18				2251.
19				
20 **AVG GROWTH/INTERVAL(PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION	2.07	2.08	1.91	2.64
28 INDUSTRIAL EMPLOYMENT	25.03	3.57	2.76	6.97
29 AGRICULTURAL EMPLOYMENT	-2.76	-1.89	-1.71	-2.31
30				-1.95
31 **REGIONAL SHARE (PERCENT)				-1.00
32 GROSS REGIONAL PRODUCT				
33 HOUSEHOLD EXPENDITURES				
34 POPULATION	1.72	1.69	1.66	1.61
35 INDUSTRIAL EMPLOYMENT	1.46	2.10	2.00	2.05
36 AGRICULTURAL EMPLOYMENT	2.53	2.26	2.23	2.10
37				2.00
38 **INDUSTRIAL PRODUCTION				2.00
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	0.	0.	0.	0.
43 CEMENT (THOUSANDS TONS/YR)	0.	0.	0.	0.
44 BRICK (THOUSANDS TONS/YR)	0.	24.	28.	37.
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	55.
46				80.
47 **PASSENGER VEHICLES(THOUSANDS)	0.0	0.0	0.0	0.0
48 AIR PASSENGER KM (MILLIONS)	0.0	0.0	0.0	0.0
49 VEHICLES/HUNDRED PERSONS	•E	•I	•13	•27
NOTE • MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.				
				2.95
				5.46

LOW GAS GROWTH SCENARIO

REPORT 107
ECONOMIC DATA FOR KURDISTAN

	** HISTORY **		** PROJECTION **	
1 **BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533 ^b	2541
3 VALUE ADDED OIL AND GAS	1970	1972	1974	1982
4 VALUE ADDED INDUSTRY				2546
5 VALUE ADDED AGRICULTURE				2551
6 GROSS REGIONAL PRODUCT (GRP)		8.9	12.4	13.0
7 CONSUMPTION EXPENDITURES		9.7	19.9	39.4
8 HOUSEHOLD EXPENDITURES				135.1
9				225.1
10 **POPULATION (1000'S)	702.	744.	861.	990.
11				1127.
12 **DOLLARS/CAPITA (1972 DOLLARS)				1268.
13 GNP/CAPITA				1421.
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES		178.	233.	
16 **EMPLOYMENT (1000'S)			343.	
17 INDUSTRY AND MINES	18.	17.	19.	560.
18 AGRICULTURE	141.	151.	152.	590.
19				1579.
20 **AVG GROWTH/INTERVAL (PCT/YR)				2346.
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED OIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION		17.95	17.10	14.60
28 INDUSTRIAL EMPLOYMENT		2.91	3.02	2.81
29 AGRICULTURAL EMPLOYMENT		5.72	2.75	11.72
30		*3.52	*19	*66
31 **REGIONAL SHARE (PERCENT)				*14
32 GROSS REGIONAL PRODUCT		1.00	1.07	1.20
33 HOUSEHOLD EXPENDITURES		1.77	2.40	1.32
34 POPULATION		2.41	2.39	1.30
35 INDUSTRIAL EMPLOYMENT		*77	*65	1.00
36 AGRICULTURAL EMPLOYMENT		4.15	4.27	5.40
37				5.65
38 **INDUSTRIAL PRODUCTION				5.90
39 STEEL (1000'S TONS/YR)	0*	0*	0*	0*
40 ALUMINUM (1000'S TONS/YR)	0*	0*	0*	0*
41 COPPER (1000'S TONS/YR)	0*	0*	0*	0*
42 SUGAR (1000'S TONS/YR)	0*	0*	0*	0*
43 CEMENT (1000'S TONS/YR)	0*	0*	0*	0*
44 BRICK (1000'S TONS/YR)	54*	64*	84*	125*
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0
46				179.
47 **PASSENGER VEHICLES (1000'S)	60	90	120	125*
48 **AIR PASSENGER KM (MILLIONS)			2.62	256.
49 **VEHICLES/HUNDRED PERSONS	0.9	*12	*15	0.0
			*30	0.0
			*69	0.0
			1.43	3.01
				5.46

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPILED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 104

PAGE 108-1
11/09/77

ECONOMIC DATA FOR MAHADAN

	HISTORY **		PROJECTION **	
	1970	1972	1974	1977
1 **BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT(GNP)	2529	2531	2533	2536
3 VALUE ADDED CIL AND GAS				
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT(GRP)				
7 CONSUMPTION EXPENDITURES	15.1	20.3	32.6	62.0
8 HOUSEHOLD EXPENDITURES	13.0			
9				
10 **POPULATION (THOUSANDS)	987.	1037.	1097.	1123.
11 **DOLLARS/CAPITA (1972 DOLLAR)				
12 GNP/CAPITA				
13 GNP/CAPITA				
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES	216.	274.	406.	671.
16 **EMPLOYMENT (THOUSANDS)				
17 INDUSTRY AND MINES	71.	70.	79.	85.
18 AGRICULTURE	135.	140.	136.	130.
19				
20 **AVG GROWTH/INTERVAL(%)/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES	2.58	2.85	2.70	2.90
27 POPULATION	•67	6.23	2.45	7.34
28 INDUSTRIAL EMPLOYMENT	1.65	•1.44	•1.59	•1.40
29 AGRICULTURAL EMPLOYMENT				
30				
31 **REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT	1.69	1.70	1.75	1.89
33 HOUSEHOLD EXPENDITURES	2.37	2.34	3.33	3.31
34 POPULATION	3.36	3.34	3.31	3.31
35 INDUSTRIAL EMPLOYMENT	3.06	2.67	2.72	2.70
36 AGRICULTURAL EMPLOYMENT	3.97	3.96	3.95	3.90
37				
38 **INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	13.	13.	9.	11.
43 CEMENT (THOUSANDS TONS/YR)	0.	0.	0.	14.
44 BRICK (THOUSANDS TONS/YR)	0.	127.	151.	15.
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0
46				
47 **PASSENGER VEHICLES (THOUSANDS)	•90	1.20	1.70	3.75
48 **AIR PASSENGER KM (MILLIONS)				
49 **VEHICLES/HUNDRED PERSONS	•05	•12	•15	•32

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

2556
1997
2551
1997

LOW GAS GROWTH SCENARIO

REPORT 104

ECONOMIC DATA FOR KERMANSHAHAN

	HISTORY		PROJECTION	
	2529 1970	2531 1972	2533 1974	2536 1977
1 ^{**} BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533	2536
3 VALUE ADDED OIL AND GAS	1970	1972	1974	1977
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT (GRP)	16.8	22.2	34.8	64.0
7 CONSUMPTION EXPENDITURES	14.2			
8 HOUSEHOLD EXPENDITURES				
9				
10 ^{**} POPULATION (THOUSANDS)	934*	997*	1047*	1120*
11 ^{**} DOLLARS/CAPITA (1972 DOLLAR)				
12 GNP/CAPITA				
13 GRP/CAPITA				
14 CONSUMPTION EXPENDITURES	249*	314*	461*	748*
15 EMPLOYMENT (THOUSANDS)				
16 ^{**} EMPLOYMENT (THOUSANDS)	53*	68*	77*	81*
17 INDUSTRY AND MINES	124*	130*	131*	133*
18 AGRICULTURE				
19				
20 ^{**} Avg Growth/Interval (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED OIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES	15.06	16.21	12.94	12.12
27 POPULATION	3.34	2.48	2.27	2.50
28 INDUSTRIAL EMPLOYMENT	12.94	6.41	1.53	0.99
29 AGRICULTURAL EMPLOYMENT	2.48	3.88	4.49	3.05
30 ^{**} REGIONAL SHARE (PERCENT)				
31 GROSS REGIONAL PRODUCT	1.87	1.88	1.95	2.05
32 HOUSEHOLD EXPENDITURES	2.59	3.21	3.18	3.12
33 POPULATION	3.20	2.60	2.62	2.58
34 INDUSTRIAL EMPLOYMENT	2.28	3.68	4.00	4.50
35 AGRICULTURAL EMPLOYMENT	3.65			
36				
37 ^{**} INDUSTRIAL PRODUCTION				
38 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*
39 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*
40 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*
41 SUGAR (THOUSANDS TONS/YR)	45*	30*	27*	34*
42 CEMENT (THOUSANDS TONS/YR)	0*	0*	0*	0*
43 BRICK (THOUSANDS TONS/YR)	0*	0*	0*	0*
44 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0
45 PASSENGER VEHICLES (THOUSAND)	2.40	3.80	5.30	11.31
46 AIR PASSENGER KM (MILLIONS)	•26	•38	•51	1.01
47 VEHICLES/HUNDRED PERSONS				
48				
49 ^{**} VEHICLES/HUNDRED PERSONS				

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

ECONOMIC DATA FOR INVESTMENT

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* MEANS THAT THE FORELAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 111
ECONOMIC DATA FOR ILAM

** HISTORY **

	1970	1972	1974	1977	1982	1987	1992	1997
2529	2531	2533	2536	2541	2546	2551	2556	

** PROJECTION **

	1970	1972	1974	1977	1982	1987	1992	1997
1 *BILLIONS OF 1351 RIALS								
2 GROSS NATIONAL PRODUCT (GNP)								
3 VALUE ADDED CIL AND GAS								
4 VALUE ADDED INDUSTRY								
5 VALUE ADDED AGRICULTURE								
6 GROSS REGIONAL PRODUCT (GRP)	1.9	2.6	4.5	8.9	17.7	33.6	57.4	
7 CONSUMPTION EXPENDITURES								
8 HOUSEHOLD EXPENDITURES	1.6							
9 *POPULATION (THOUSANDS)								
10 *POPULATION (THOUSANDS)	203.	197.	209.	226.	269.	308.	348.	390.
11 *DOLLARS/CAPITA (1972 DOLLAR)								
12 GNP/CAPITA								
13 GRP/CAPITA	145.	186.	293.	488.	852.	1429.	2181.	
14 CONSUMPTION EXPENDITURES								
15 *EMPLOYMENT (1000'S)								
16 *EMPLOYMENT (1000'S)								
17 INDUSTRY AND MINES	8.	14.	15.	16.	22.	29.	43.	56.
18 AGRICULTURE	32.	30.	30.	30.	29.	29.	29.	29.
19 *AVG GROWTH INTERVAL (PCT/YR)								
20 GROSS NATIONAL PRODUCT								
21 VALUE ADDED CIL AND GAS								
22 VALUE ADDED INDUSTRY								
23 VALUE ADDED AGRICULTURE								
24 GROSS REGIONAL PRODUCT								
25 CONSUMPTION EXPENDITURES								
26 POPULATION	16.73	19.34	14.67	14.84	13.65	11.32		
27 INDUSTRIAL EMPLOYMENT								
28 AGRICULTURAL EMPLOYMENT								
29 *REGIONAL SHARE (PERCENT)								
30 *REGIONAL SHARE (PERCENT)								
31 *REGIONAL SHARE (PERCENT)								
32 GROSS REGIONAL PRODUCT	*22	*22	*24	*27	*32	*36	*40	
33 HOUSEHOLD EXPENDITURES	*29	*63	*63	*65	*65	*65	*65	
34 POPULATION	*70	*53	*51	*50	*55	*70	*80	
35 INDUSTRIAL EMPLOYMENT	*34	*85	*87	*90	*95	1.00	1.05	
36 AGRICULTURAL EMPLOYMENT	*94							
37 *INDUSTRIAL PRODUCTION								
38 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	
39 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	
40 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	
41 SUGAR (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	
42 CEMENT (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	
43 BRICK (THOUSANDS TONS/YR)	0.	8.	9.	12.	18.	27.	54.	
44 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
45 PASSENGER VEHICLES (THOUSANDS)	*10	*20	*30	*73	1.07	*94	12.13	25.63
46 AIR PASSENGER KM (MILLIONS)	.05	.10	.14	.32	.70	1.61	3.49	6.58
47 *VEHICLES/HUNDRED PERSONS								
48 *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.								

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

PAGE 112-1
11/09/77

ECONOMIC DATA FOR KHUZESTAN

180

	HISTORY		PROJECTION	
2529 1970	2531 1972	2533 1974	2536 1982	2541 1987
2 GROSS NATIONAL PRODUCT(GNP)				2556 1992
3 VALUE ADDED CIL AND GAS				2551 1997
4 VALUE ADDED INDUSTRY				2551 1997
5 VALUE ADDED AGRICULTURE				2556 1997
6 GROSS REGIONAL PRODUCT(GRP)	82.4	106.2	160.0	258.6
7 CONSUMPTION EXPENDITURES	33.8			402.1
8 HOUSEHOLD EXPENDITURES				638.4
9 POPULATION (THOUSANDS)	1827.	1889.	1971.	2056.
10				2830.
11				3171.
12 DOLLARS/CAPITA (1972 DOLLAR)				4422.
13 GNP/CAPITA				
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES				
16 EMPLOYMENT (THOUSANDS)				
17 INDUSTRY AND MINES	134.	165.	187.	2231.
18 AGRICULTURE	129.	140.	143.	2342.
19				
20 AVEG. GROWTH/INTERVAL (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION	1.69	2.15	2.13	2.23
28 INDUSTRIAL EMPLOYMENT	10.98	6.46	2.03	1.97
29 AGRICULTURAL EMPLOYMENT	3.65	1.07	.75	1.51
30				.33
31 REGIONAL SHARE (PERCENT)				.60
32 GROSS REGIONAL PRODUCT	9.21	8.90	8.59	7.88
33 HOUSEHOLD EXPENDITURES	6.17	6.08	5.98	5.85
34 POPULATION	6.08	6.30	6.35	6.36
35 INDUSTRIAL EMPLOYMENT	5.77	3.79	4.15	4.40
36 AGRICULTURAL EMPLOYMENT	3.79	3.96	4.15	4.40
37				
38 INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	55.	67.	105.	144.
43 CEMENT (THOUSANDS TONS/YR)	0.	0.	194.	1289.
44 BRICK (THOUSANDS TONS/YR)	0.	0.	837.	676.
45 PETROCHEMICALS (TRILLION/BTU)	21.6	31.6	44.2.	1195.
46				1579.
47 PASSENGER VEHICLES (THOUSANDS)	20.00	25.70	33.60	58.6.
48 AIR PASSENGER KM (MILLIONS)				2039.
49 VEHICLES/HUNDRED PERSONS	1.09	1.36	1.70	2.18.
50				
51 AVERAGE TRAVEL DISTANCE (KMS)				3.18
52				5.63
53				13.53

A HISTORY 46

2531	2533	2536	2541	2546	2551	2556
1970	1972	1974	1977	1982	1987	1992
2529						1997

1	***BILLIONS OF 1351 RIALS
2	GROSS NATIONAL PRODUCT (GNP)
3	VALUE ADDED CIL AND GAS
4	VALUE ADDED INDUSTRY
5	VALUE ADDED AGRICULTURE
6	GROSS REGIONAL PRODUCT (GRP)
7	CONSUMPTION EXPENDITURES
8	HOUSEHOLD EXPENDITURES
9	
10	**POPULATION (THOUSANDS)
11	337.
12	**DOLLARS/CAPITA (1972 DOLLAR)
13	GNP/CAPITA
14	GRP/CAPITA
15	CONSUMPTION EXPENDITURES
16	**EMPLOYMENT (THOUSANDS)
17	INDUSTRY AND MINES
18	AGRICULTURE
19	
20	**AVG GROWTH/INTERVAL (PCT/YR)
21	GROSS NATIONAL PRODUCT
22	VALUE ADDED CIL AND GAS
23	VALUE ADDED INDUSTRY
24	VALUE ADDED AGRICULTURE
25	GROSS REGIONAL PRODUCT
26	CONSUMPTION EXPENDITURES
27	POPULATION
28	INDUSTRIAL EMPLOYMENT
29	AGRICULTURAL EMPLOYMENT
30	
31	**REGIONAL SHARE (PERCENT)
32	GROSS REGIONAL PRODUCT
33	HOUSEHOLD EXPENDITURES
34	POPULATION
35	INDUSTRIAL EMPLOYMENT
36	AGRICULTURAL EMPLOYMENT
37	
38	**INDUSTRIAL PRODUCTION
39	STEEL (THOUSANDS TONS/YR)
40	ALUMINUM (THOUSANDS TONS/YR)
41	COPPER (THOUSANDS TONS/YR)
42	SUGAR (THOUSANDS TONS/YR)
43	CEMENT (THOUSANDS TONS/YR)
44	BRICK (THOUSANDS TONS/YR)
45	PETROCHEMICALS (TRILLION/BTU)
46	
47	**PASSENGER VEHICLES (THOUSANDS)
48	**PASSENGER K (MILLIONS)
49	**VEHICLES/SHMINDED PERSONS

*MEANS THAT THE FORELAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

1 *BILLIONS OF 1351 RIALS	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982	2546 1987	2551 1992	2556 1997
2 GROSS NATIONAL PRODUCT (GNP)								
3 VALUE ADDED C.I.L AND GAS								
4 VALUE ADDED INDUSTRY								
5 VALUE ADDED AGRICULTURE								
6 GROSS REGIONAL PRODUCT (GRP)								
7 CONSUMPTION EXPENDITURES								
8 HOUSEHOLD EXPENDITURES								
9								
10 *POPULATION (THOUSANDS)	296.	367.	389.	420.	489.	559.	631.	707.
11								
12 **DOLLARS/CAPITA (1972 DOLLAR)								
13 GNP/CAPITA								
14 GRP/CAPITA								
15 CONSUMPTION EXPENDITURES								
16 *EMPLOYMENT (THOUSANDS)								
17 INDUSTRY AND MINES	7.	8.	11.	16.	45.	64.	111.	140.
18 AGRICULTURE	44.	50.	47.	43.	40.	35.	28.	21.
19								
20 ***AVG GROWTH/INTERVAL (PCT/YR)								
21 GROSS NATIONAL PRODUCT								
22 VALUE ADDED C.I.L AND GAS								
23 VALUE ADDED INDUSTRY								
24 VALUE ADDED AGRICULTURE								
25 GROSS REGIONAL PRODUCT								
26 CONSUMPTION EXPENDITURES								
27 POPULATION	11.39	2.95	2.59	3.08	2.71	2.48	2.30	4.68
28 INDUSTRIAL EMPLOYMENT	2.71	17.26	12.39	23.49	7.34	11.70	11.70	-5.32
29 AGRICULTURAL EMPLOYMENT	7.39	-3.05	-2.77	-1.40	-2.57	-6.54		
30								
31 ***REGIONAL SHARE (PERCENT)								
32 GROSS REGIONAL PRODUCT								
33 HOUSEHOLD EXPENDITURES								
34 POPULATION	1.01	1.00	1.18	1.17	.52	.59	.67	.74
35 INDUSTRIAL EMPLOYMENT	1.30	1.31	1.37	1.50	1.18	1.18	1.18	
36 AGRICULTURAL EMPLOYMENT	1.29	1.41	1.36	1.30	1.20	1.80	2.00	
37								
38 ***INDUSTRIAL PRODUCTION								
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	3.	3.	3.	5.	8.	9.	11.	12.
43 CEMENT (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
44 BRICK (THOUSANDS TONS/YR)	0.	0.	0.	12.	18.	27.	39.	53.
45 PETROCHEMICALS (TRILLION/BTU)	0.	0.	0.	0.	0.	0.	0.	0.
46								
47 **PASSENGER VEHICLES (THOUSAND)	30	40	50	114	318	186	19.56	40.94
48 **AIR PASSENGER KM (MILLIONS)								
49 **VEHICLES/HUNDRED PERSONS	10	11	13	27	65	141	310	579

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTER VALUES.

LOW GAS GROWTH SCENARIO

REPORT 115
ECONOMIC DATA FOR BUSHMENPAGE 115-1
11/09/77

	** HISTORY **		** PROJECTION **		
	1970	1972	1974	1982	1992
1 *BILLIONS OF 1951 RIALS					
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533	2536	2551
3 VALUE ADDED OIL AND GAS	1970	1972	1974	1982	1992
4 VALUE ADDED INDUSTRY					
5 VALUE ADDED AGRICULTURE					
6 GROSS REGIONAL PRODUCT (GRP)		4,12	5,8	9,3	16,4
7 CONSUMPTION EXPENDITURES					
8 HOUSEHOLD EXPENDITURES		4,4			
9 *POPULATION (THOUSANDS)	299.	320.	341.	377.	439.
11 *DOLLARS/CAPITA (1972 DOLLAR)					
13 GNP/CAPITA					
14 GRP/CAPITA		194.	254.	366.	620.
15 CONSUMPTION EXPENDITURES					
16 *EMPLOYMENT (THOUSANDS)					
17 INDUSTRY AND MINES	17.	23.	26.	28.	45.
18 AGRICULTURE	22.	30.	30.	30.	28.
20 *AVG GROWTH/INTERVAL (PCT/YR)					
21 GROSS NATIONAL PRODUCT					
22 VALUE ADDED OIL AND GAS					
23 VALUE ADDED INDUSTRY					
24 VALUE ADDED AGRICULTURE					
25 GROSS REGIONAL PRODUCT					
26 CONSUMPTION EXPENDITURES					
27 POPULATION	3,69	3,23	3,39	3,10	4,12
28 INDUSTRIAL EMPLOYMENT	16,13	6,32	2,25	1,03	5,08
29 AGRICULTURAL EMPLOYMENT	16,47	0,00	0,10	1,40	1,00
31 *REGIONAL SHARE (PERCENT)					
32 GROSS REGIONAL PRODUCT	*47	*49	*50	*56	*59
33 HOUSEHOLD EXPENDITURES	*80	1,03	1,04	1,05	1,06
34 POPULATION	1,02	1,03	1,04	1,05	1,03
35 INDUSTRIAL EMPLOYMENT	*73	*88	*89	1,00	1,00
36 AGRICULTURAL EMPLOYMENT	*65	*65	*87	*90	*90
38 *INDUSTRIAL PRODUCTION					
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*
42 SUGAR (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*
43 CEMENT (THOUSANDS TONS/YR)	0*	0*	0*	0*	0*
44 BRICK (THOUSANDS TONS/YR)	46.	56.	73.	109.	152.
45 PETROCHEMICALS (TRILLION/BTU)	36.0	36.0	36.0	36.0	36.0
47 *PASSENGER VEHICLES (THOUSAND)	*40	*60	*80	1,71	4,38
48 *AIR PASSENGER KM (MILLIONS)	*13	*19	*23	*45	1,00
49 *VEHICLES/HUNDRED PERSONS					

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 116
ECONOMIC DATA FOR FARMS

PAGE 116-1
11/09/77

	HISTORY		PROJECTION	
	2529	2531	2536	2546
	1970	1972	1974	1976
1 *BILLIONS OF 1951 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)				
3 VALUE ADDED CIL AND GAS				
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT (GRP)				
7 CONSUMPTION EXPENDITURES				
8 HOUSEHOLD EXPENDITURES				
9				
10 *POPULATION (THOUSANDS)	1695.	1752.	1846.	2257.
11 *DOLLARS/CAPITA (1972 DOLLAR)			1989.	2499.
12 *GNP/CAPITA			84.7	149.0
13 GRP/CAPITA			631.	978.
14 CONSUMPTION EXPENDITURES		441.		1462.
15 EMPLOYMENT (THOUSANDS)				2221.
16 INDUSTRY AND MINES	87.	95.	111.	123.
17 AGRICULTURE	188.	200.	192.	179.
18 AGRICULTURE				161.
19				
20 *AVG GROWTH INTERVAL (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION	1.67	2.65	2.51	2.56
28 INDUSTRIAL EMPLOYMENT	4.84	8.09	3.50	10.40
29 AGRICULTURAL EMPLOYMENT	3.18	>2.02	>2.23	>2.14
30				
31 *REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT	4.64	4.61	4.55	4.54
33 HOUSEHOLD EXPENDITURES	5.44	5.64	5.60	5.54
34 POPULATION	5.81	5.63	3.77	3.94
35 INDUSTRIAL EMPLOYMENT	3.75	5.66	5.57	5.40
36 AGRICULTURAL EMPLOYMENT	5.53			5.20
37				
38 *INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	68.	78.	74.	85.
43 CEMENT (THOUSANDS TONS/YR)	295.	310.	339.	59.
44 BRICK (THOUSANDS TONS/YR)		367.	435.	559.
45 PETROCHEMICALS (TRILLION/BTU)	3.1	3.3	4.0	4.6
46				
47 *PASSENGER VEHICLES (THOUSANDS)	6.60	9.40	13.60	27.89
48 AIR PASSENGER KM (MILLIONS)				61.05
49 *VEHICLES (HUNDRED PERSONS)	39	54	.74	1.40
NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.				2.71
				4.94
				9.25
				12.65

LOW GAS GROWTH SCENARIO

REPORT 117

ECONOMIC DATA FOR SAHEL-JONOOH

	** HISTORY **		** PROJECTION **	
	1970	1972	1974	1977
1 **BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)	2529	2531	2533	2536
3 VALUE ADDED CIL AND GAS	1970	1972	1974	1977
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT (GRP)				
7 CONSUMPTION EXPENDITURES				
8 HOUSEHOLD EXPENDITURES				
9				
10 **POPULATION (THOUSANDS)				
11				
12 **DOLLARS/CAPITA (1972 DOLLAR)				
13 GNP/CAPITA				
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES				
16 **EMPLOYMENT (THOUSANDS)				
17 INDUSTRY AND MINES				
18 AGRICULTURE				
19				
20 **AVG GROWTH/INTERVAL (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION				
28 INDUSTRIAL EMPLOYMENT				
29 AGRICULTURAL EMPLOYMENT				
30				
31 **REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT				
33 HOUSEHOLD EXPENDITURES				
34 POPULATION				
35 INDUSTRIAL EMPLOYMENT				
36 AGRICULTURAL EMPLOYMENT				
37				
38 **INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)				
40 ALUMINUM (THOUSANDS TONS/YR)				
41 COOPER (THOUSANDS TONS/YR)				
42 SUGAR (THOUSANDS TONS/YR)				
43 CEMENT (THOUSANDS TONS/YR)				
44 BRICK (THOUSANDS TONS/YR)				
45 PETROCHEMICALS(TRILLION/BTU)				
46				
47 **PASSENGER VEHICLES(THOUSANDS)				
48 **AIR PASSENGER KM (MILLIONS)				
49 **VEHICLES/HUNDRED PERSONS				

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 118

ECONOMIC DATA FOR KEFMAN

	HISTORY		PROJECTION	
	1970	1972	1977	1982
1 *BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT(GNP)	2529	2531	2533	2541
3 VALUE ADDED OIL AND GAS				2546
4 VALUE ADDED INDUSTRY	1970	1972	1974	1977
5 VALUE ADDED AGRICULTURE				2551
6 GROSS REGIONAL PRODUCT(GRP)				1992
7 CONSUMPTION EXPENDITURES	17.3	23.4	36.1	41.2
8 HOUSEHOLD EXPENDITURES	10.0			
9 POPULATION (THOUSANDS)	863.	874.	923.	1001.
10 *POPULATION (THOUSANDS)				1130.
11 *DOLLARS/CAPITA (1972 DOLLAR)				1269.
12 *GNP/CAPITA				1398.
13 GNP/CAPITA	294.	375.	535.	847.
14 GRP/CAPITA				1498.
15 CONSUMPTION EXPENDITURES				2007.
16 *EMPLOYMENT (THOUSANDS)	97.	107.	113.	120.
17 INDUSTRY AND MINES	109.	110.	106.	104.
18 AGRICULTURE				74.
19 *AVERAGE GROWTH/INTERVAL(PCT/YR)				56.
20 *REGIONAL SHARE (PERCENT)				56.
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED OIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION	16.14		15.60	12.34
28 INDUSTRIAL EMPLOYMENT	*61	2.76	2.45	2.33
29 AGRICULTURAL EMPLOYMENT	5.21	2.77	1.74	3.81
30	*37	-1.84	-2.02	-3.46
31 *REGIONAL SHARE (PERCENT)				-4.51
32 GROSS REGIONAL PRODUCT				-2.64
33 HOUSEHOLD EXPENDITURES				-2.78
34 POPULATION	1.96	1.96	1.97	2.01
35 INDUSTRIAL EMPLOYMENT	2.96	2.82	2.79	2.73
36 AGRICULTURAL EMPLOYMENT	4.1b	4.09	3.84	3.20
37	3.21	3.11	3.08	2.70
38 *INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	94*	145*
42 SUGAR (THOUSANDS TONS/YR)	9*	7*	4*	9*
43 CEMENT (THOUSANDS TONS/YR)	20*	106*	277*	762*
44 BRICK (THOUSANDS TONS/YR)	398*	368*	474*	664*
45 PETROCHEMICALS (TRILLION/Btu)	0.0	0.0	0.0	0.0
46				0.0
47 *PASSENGER VEHICLES (THOUSANDS)	2.80	4.00	6.30	12.91
48 *AIR PASSENGER KM (MILLIONS)				29.09
49 *VEHICLES/HUNRED PERSONS	.32	.46	.68	1.29
NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.				2.57
				2.29
				4.88
				9.38
				13.01

LOW GAS GROWTH SCENARIO

REPORT 119

ECONOMIC DATA FOR SISTAN AND BALUCHESTAN

	HISTORY #			PROJECTION #		
	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982	2546 1987
1 *BILLIONS OF 1351 RIALS						
2 GROSS NATIONAL PRODUCT (GNP)						
3 VALUE ADDED OIL AND GAS						
4 VALUE ADDED INDUSTRY						
5 VALUE ADDED AGRICULTURE						
6 GROSS REGIONAL PRODUCT (GRP)						
7 CONSUMPTION EXPENDITURES						
8 HOUSEHOLD EXPENDITURES						
9						
10 **POPULATION (THOUSANDS)	502.	501.	518.	538.	596.	646.
11 **DOLLARS/CAPITA (1972 DOLLAR)						
12 GNP/CAPITA						
13 GRP/CAPITA						
14 CONSUMPTION EXPENDITURES	115.	154.		231.	440.	758.
15 EMPLOYMENT (THOUSANDS)						
16 INDUSTRY AND MINES	22.	24.	27.	30.	45.	53.
17 AGRICULTURE	79.	80.	79.	76.	74.	71.
18						
19 AVG GROWTH INTERVAL (PCT/YR)						
20 GROSS NATIONAL PRODUCT						
21 VALUE ADDED OIL AND GAS						
22 VALUE ADDED INDUSTRY						
23 VALUE ADDED AGRICULTURE						
24 CONSUMPTION EXPENDITURES						
25 GROSS REGIONAL PRODUCT						
26 POPULATION	17.49	16.00	16.16	17.36	17.45	17.42
27 INDUSTRIAL EMPLOYMENT	1.68	1.30	2.06	1.69	2.03	2.30
28 AGRICULTURAL EMPLOYMENT	6.07	3.55	6.38	5.50	3.00	2.50
29	.51	-.63	-.56	-.10	-1.00	-1.00
30						
31 **REGIONAL SHARE (PERCENT)						
32 GROSS REGIONAL PRODUCT	.63	.45	.54	.60	.69	.77
33 HOUSEHOLD EXPENDITURES	.82	1.61	1.57	1.50	1.44	1.37
34 POPULATION	1.72	1.61	1.92	1.96	1.90	1.84
35 INDUSTRIAL EMPLOYMENT	.95	.92	1.00	1.00	1.00	1.00
36 AGRICULTURAL EMPLOYMENT	2.32	2.26	2.29	2.30	2.40	2.40
37						
38 **INDUSTRIAL PRODUCTION						
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	6.	0.	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.
43 CEMENT (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.
44 BRICK (THOUSANDS TONS/YR)	33.	35.	50.	78.	112.	165.
45 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0	0.0	0.0
46						
47 **PASSENGER VEHICLES (THOUSAND)	.40	.60	1.10	2.38	6.95	17.06
48 AIR PASSENGER KM (MILLIONS)	.08	.12	.21	.44	1.16	2.63
49 *VEHICLES/HUNDRED PERSONS						

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPLETED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 1

PAGE 120
11/09/77

ECONOMIC DATA FOR KHOKASSAN

	** HISTORY **		** PROJECTION **		
	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982
1 * *BILLIONS OF 1951 RIALS					
2 GROSS NATIONAL PRODUCT (GNP)					
3 VALUE ADDED CIL AND GAS					
4 VALUE ADDED INDUSTRY					
5 VALUE ADDED AGRICULTURE					
6 GROSS REGIONAL PRODUCT (GRP)					
7 CONSUMPTION EXPENDITURES					
8 HOUSEHOLD EXPENDITURES					
9					
10 **POPULATION (THOUSANDS)	2847.	3017.	3190.	3457.	4336.
11 **DOLLARS/CAPITA (1972 DOLLARS)					
12 GNP/CAPITA					
13 GRP/CAPITA					
14 CONSUMPTION EXPENDITURES					
15 EMPLOYMENT (THOUSANDS)					
16 INDUSTRY AND MINES					
17 AGRICULTURE					
18					
19 **AVERAGE GROWTH INTERVAL (PCT/YR)					
20 GROSS NATIONAL PRODUCT					
21 VALUE ADDED CIL AND GAS					
22 VALUE ADDED INDUSTRY					
23 VALUE ADDED AGRICULTURE					
24 GROSS REGIONAL PRODUCT					
25 CONSUMPTION EXPENDITURES					
26 POPULATION					
27 INDUSTRIAL EMPLOYMENT					
28 AGRICULTURAL EMPLOYMENT					
29					
30 **REGIONAL SHARE (PERCENT)					
31 GROSS REGIONAL PRODUCT					
32 HOUSEHOLD EXPENDITURES					
33 POPULATION					
34 INDUSTRIAL EMPLOYMENT					
35 AGRICULTURAL EMPLOYMENT					
36 **INDUSTRIAL PRODUCTION					
37 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.
38 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.
39 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.
40 SUGAR (THOUSANDS TONS/YR)	108.	226.	247.	313.	401.
41 CEMENT (THOUSANDS TONS/YR)	162.	217.	215.	248.	462.
42 BRICK (THOUSANDS TONS/YR)	840.	1000.	1294.	1826.	2490.
43 PETROCHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0	0.0
44 PASSENGER VEHICLES (THOUSAND)	2.70	6.80	14.20	29.60	67.70
45 AIR PASSENGER KM (MILLIONS)	*09	*23	*45	*86	1.72
46 VEHICLES/HUNDRED PERSONS					
47					
48					
49					

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 121

ECONOMIC DATA FOR SEMANAN

♦♦ HISTORY ♦♦

	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982	2546 1987	2551 1992	2556 1997
1 ♦♦BILLIONS OF 1351 RIALS								
2 GROSS NATIONAL PRODUCT (GNP)								
3 VALUE ADDED CIL AND GAS								
4 VALUE ADDED INDUSTRY								
5 VALUE ADDED AGRICULTURE								
6 GROSS REGIONAL PRODUCT (GRP)								
7 CONSUMPTION EXPENDITURES								
8 HOUSEHOLD EXPENDITURES								
9								
10 ♦♦POPULATION (THOUSANDS)	255.	280.	303.	341.	393.	445.	503.	563.
11 ♦♦DOLLARS/CAPITA (1972 DOLLAR)								
12 ♦♦GRP/CAPITA								
13 ♦♦GDP/CAPITA								
14 GROSS NATIONAL PRODUCT (GDP)								
15 CONSUMPTION EXPENDITURES	353.	443.	631.	976.	1473.	2224.	3092.	
16 ♦♦EMPLOYMENT (THOUSANDS)								
17 INDUSTRY AND MINES	20.	24.	27.	30.	45.	53.	62.	70.
18 AGRICULTURE	20.	20.	19.	18.	15.	12.	11.	11.
19								
20 ♦♦AVG GROWTH INTERVAL (PCT/YR)								
21 GROSS NATIONAL PRODUCT								
22 VALUE ADDED CIL AND GAS								
23 VALUE ADDED INDUSTRY								
24 VALUE ADDED AGRICULTURE								
25 GROSS REGIONAL PRODUCT								
26 CONSUMPTION EXPENDITURES	4.85	4.03	4.02	2.90	2.49	2.48	2.30	
27 POPULATION	11.38	6.07	3.55	8.38	3.50	3.00	2.50	
28 INDUSTRIAL EMPLOYMENT	-2.53	-2.53	-1.26	-3.26	-5.32	-1.00	-1.00	
29 AGRICULTURAL EMPLOYMENT	-2.76							
30								
31 ♦♦REGIONAL SHARE (PERCENT)								
32 GROSS REGIONAL PRODUCT	.75	.76	.78	.79	.81	.81	.82	
33 HOUSEHOLD EXPENDITURES	.66	.90	.92	.95	.94	.94	.94	
34 POPULATION	.67	.86	.92	.96	1.00	1.00	1.00	
35 INDUSTRIAL EMPLOYMENT	.86	.59	.57	.55	.50	.40	.40	
36 AGRICULTURAL EMPLOYMENT	.59							
37								
38 ♦♦INDUSTRIAL PRODUCTION								
39 STEEL (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
40 ALUMINUM (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
41 COPPER (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
42 SUGAR (THOUSANDS TONS/YR)	7.	9.	6.	9.	12.	13.	15.	17.
43 CEMENT (THOUSANDS TONS/YR)	0.	0.	0.	0.	0.	0.	0.	0.
44 BRICK (THOUSANDS TONS/YR)	161.	192.	252.	353.	481.	656.	849.	
45 PETRO-CHEMICALS (TRILLION/BTU)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46								
47 ♦♦PASSENGER VEHICLES (THOUSANDS)	.50	.70	.90	1.91	4.24	6.90	18.65	
48 ♦♦AIR PASSENGER KM (MILLIONS)								
49 ♦♦VEHICLES/HUNCHED PERSONS	.20	.25	.30	.56	1.08	<.00	3.71	5.15

NOTE ♦♦MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

PAGE 121-1
11/09/77

LOW GAS GROWTH SCENARIO

REPORT 122
ECONOMIC DATA FOR YARDPAGE 122-1
11/09/77

	HISTORY **		PROJECTION **	
	2524 1970	2531 1972	2536 1977	2541 1982
1 *BILLIONS OF 1351 RIALS				
2 GROSS NATIONAL PRODUCT (GNP)				
3 VALUE ADDED CIL AND GAS				
4 VALUE ADDED INDUSTRY				
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT(GRP)				
7 CONSUMPTION EXPENDITURES				
8 HOUSEHOLD EXPENDITURES				
9				
10 **POPULATION (1000'S)	352.	396.	431.	468.
11 **DOLLARS/CAPITA (1972 DOLLAR)				
12 GNP/CAPITA				
13 GNP/CAPITA				
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES				
16 **EMPLOYMENT (1000'S)				
17 INDUSTRY AND MINES				
18 AGRICULTURE				
19				
20 **AVG GROWTH/INTERVAL (PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION				
28 INDUSTRIAL EMPLOYMENT				
29 AGRICULTURAL EMPLOYMENT				
30				
31 **REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT				
33 HOUSEHOLD EXPENDITURES				
34 POPULATION				
35 INDUSTRIAL EMPLOYMENT				
36 AGRICULTURAL EMPLOYMENT				
37				
38 **INDUSTRIAL PRODUCTION				
39 STEEL (THOUSANDS TONS/YR)	0*	0*	0*	0*
40 ALUMINUM (THOUSANDS TONS/YR)	0*	0*	0*	0*
41 COPPER (THOUSANDS TONS/YR)	0*	0*	0*	0*
42 SUGAR (THOUSANDS TONS/YR)	0*	0*	0*	0*
43 CEMENT (THOUSANDS TONS/YR)	0*	0*	0*	0*
44 BRICK (THOUSANDS TONS/YR)	300*	365*	440*	540*
45 PETROCHEMICALS (TRILLION/BTU)	0* 0	0* 0	0* 0	0* 0
46				
47 **PASSENGER VEHICLES(THOUSAND)	*90	1,20	1,50	1,74
48 **AIR PASSENGER KM (MILLIONS)				
49 **VEHICLES/HUNDRED PERSONS	*26	*30	*35	*39

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

	HISTORY		PROJECTION	
1 *BILLIONS OF 1951 RIALS	2529 1970	2531 1972	2533 1974	2536 1982
2 GROSS NATIONAL PRODUCT(GNP)			2541 1982	2546 1987
3 VALUE ADDED CIL AND GAS				2551 1992
4 VALUE ADDED INDUSTRY				2556 1997
5 VALUE ADDED AGRICULTURE				
6 GROSS REGIONAL PRODUCT(GRP)	65.5	64.7	133.2	228.4
7 CONSUMPTION EXPENDITURES	26.8			318.3
8 HOUSEHOLD EXPENDITURES				622.6
9				934.9
10 *POPULATION (THOUSANDS)	1649.	1772.	1881.	2050.
11				2369.
12 **DOLLARS/CAPITA (1972 DOLLAR)				3119.
13 GNP/CAPITA				3495.
14 GRP/CAPITA				
15 CONSUMPTION EXPENDITURES	548.	667.	963.	1424.
16 **EMPLOYMENT (THOUSANDS)				2038.
17 INDUSTRY AND MINES	186.	190.	225.	2957.
18 AGRICULTURE	168.	170.	167.	3963.
19				
20 **AVG GROWTH/INTERVAL(PCT/YR)				
21 GROSS NATIONAL PRODUCT				
22 VALUE ADDED CIL AND GAS				
23 VALUE ADDED INDUSTRY				
24 VALUE ADDED AGRICULTURE				
25 GROSS REGIONAL PRODUCT				
26 CONSUMPTION EXPENDITURES				
27 POPULATION				
28 INDUSTRIAL EMPLOYMENT				
29 AGRICULTURAL EMPLOYMENT				
30 AGRICULTURAL SHARE (PERCENT)				
31 **REGIONAL SHARE (PERCENT)				
32 GROSS REGIONAL PRODUCT				
33 HOUSEHOLD EXPENDITURES				
34 POPULATION				
35 INDUSTRIAL EMPLOYMENT				

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO USING COMPLETE VALUES.

PAGE 11 / 08 / 77

THE VILLAGERS

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED FROM THE PREDICTOR.

LOW GAS GROWTH SCENARIO

REPORT 201

PETROLEUM PRODUCT DEMAND IN MAHKAZI
THOUSANDS OF CUBIC METERSPAGE 201-1
11/09/77

	HISTORY **		PROJECTION **	
1 *LPG	1972 2531	1973 2532	1974 2533	1977 2530
2 RESIDENTIAL	128. 14. 142.	158. 18. 176.	191. 21. 212.	282. 31. 313.
3 COMMERCIAL				432. 48. 481.
4 TOTAL				69. t92.
5 *AVIATION GASLINE	6. 0.	7. 0.	5. 0.	t22. 5.
6 *PETROCHEMICAL FEEDSTOCK				940. 104. 1044.
7 (NOT INCLUDED IN TOTAL)				1397. 155. 1552.
8 DOMESTIC DEMAND - LINE 46)				5. 0. 0.
9				
10				
11				
12 **MOTOR GASOLINE				
13	800.	944.	1111.	1901.
14 **JET FUEL (AVIATION)				3182. 4537.
15 ATK (COMMERCIAL)	324. 417.	333. 420.	494. 151. 645.	724. 232. 956.
16 JP4				1163. 34. 1504.
17 TOTAL	329.	417.		1874. 325. 2395.
18 *KEROSENE				2768. 846. 3614.
19				
20 RESIDENTIAL AND COMMERCIAL				
21	1233.	1264.	1455.	1944.
22 *GAS OIL				2726. 3662.
23 RESIDENTIAL AND COMMERCIAL				5150. 7139.
24 INDUSTRIAL	152. 347.	227. 431.	401. 582.	658. 898.
25 AGRICULTURE	140. 670. 35.	140. 683. 53.	192. 1729. 83.	263. 2690. 134.
26 HIGHWAY				356. 477. 409.
27 RAILWAY				477. 584. 6401.
28				
29 ELECTRIC POWER (MGE)	63. 0.	47. 0.	0. 0.	332. 0.
30 INTERNAL MARINE DIESEL				497.
31 TOTAL	1166.	1407.	1581.	2330. 3683. 569.
32				0. 0. 0.
33 *FUEL OIL				0. 0. 0.
34				11059. 7659. 11059.
35 RESIDENTIAL AND COMMERCIAL	231. 952. 872. 0. 0.	317. 414. 1037. 0. 0.	552. 706. 1600. 1704. 0.	933. 1219. 2126. 0. 0.
36 INDUSTRIAL NEI				
37 COPPER PRODUCTION				
38 SUGAR PRODUCTION				
39 CEMENT PRODUCTION				
40 ELECTRIC POWER (MGE)				
41 BRICK PRODUCTION				
42 TOTAL	1597.	1926. 210. 268.	165. 2138. 378. 327.	760. 159. 2596. 978. 390.
43 *REFINERY USE AND LOSS				0. 213. 2626. 3329. 682.
44 *OTHER (BITUMEN, LUBES, WAXES)				0. 0. 402. 8592. 827.
45				
46 **TOTAL DOMESTIC (EXCL LINE 7)	5750.8	6845.4	7804.4	11357.8 15923.4 21349.5 29846.0
NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.				44642.9

		HISTORY		PROJECTION	
		1972 2531	1973 2532	1974 2533	1977 2536
1	1 LPG				
2	RESIDENTIAL AND COMMERCIAL	22.	27.	32.	51.
3	INDUSTRIAL	22.	3.	4.	6.
4	TOTAL	24.	30.	36.	57.
5	AVIATION GASOLINE	0.	0.	0.	102.
6	PETROCHEMICAL FEEDSTOCK	0.	0.	0.	102.
7	(NOT INCLUDED IN TOTAL DOMESTIC DEMAND = LINE 46)				
8					
9					
10					
11					
12	MOTOR GASLINE	86.	111.	134.	232.
13	JET FUEL (AVIATION)				
14	ATK (COMMERCIAL)	0.	0.	0.	0.
15	TOTAL	0.	0.	0.	0.
16					
17					
18					
19	AEROSOL				
20	RESIDENTIAL AND COMMERCIAL	202.	219.	255.	379.
21					
22	GAS OIL				
23	RESIDENTIAL AND COMMERCIAL	4.	4.	8.	15.
24	INDUSTRIAL	34.	36.	34.	103.
25					
26	AGRICULTURE	76.	72.	101.	145.
27	RAILWAY	133.	142.	216.	347.
28		5.	4.	6.	10.
29					
30	ELECTRIC POWER (HOE)	2.	4.	43.	43.
31	INTERNAL MARINE DIESEL	0.	0.	0.	0.
32	TOTAL	254.	262.	428.	621.
33					
34	FUEL OIL				
35	RESIDENTIAL AND COMMERCIAL	60.	76.	104.	155.
36	INDUSTRIAL NET	54.	58.	77.	148.
37	COPPER PRODUCTION	0.	0.	0.	0.
38	SUGAR PRODUCTION	0.	0.	0.	0.
39	CEMENT PRODUCTION	0.	0.	0.	0.
40	ELCTRIC POWER (HOE)	0.	0.	0.	0.
41	BRICK PRODUCTION	0.	1.	0.	64.
42	TOTAL	16.	16.	26.	41.
43	REFINERY USE AND LOSS	108.	130.	207.	37.
44	OTHER (BITUMEN, WAXES)	0.	0.	0.	55.
45	TOTAL DOMESTIC (EXCL LINE 7)	29.	38.	49.	79.
46	TOTAL DOMESTIC (EXCL LINE 7)	661.4	782.4	891.8	1380.9
					2268.5
					3542.9
					5496.4
					9653.3

	PROJECTED 4.0		
	1972 2531	1973 2532	1974 2533
1 *♦LPG			
2 RESIDENTIAL AND COMMERCIAL			
3 INDUSTRIAL			
4 TOTAL	1972 2531	1973 2532	1974 2533
5 *♦AVIATION GASOLINE	10. 9.	10. 11.	12. 13.
6 *♦PETROCHEMICAL FEEDSTOCK	0. 0.	0. 0.	0. 0.
7 (NOT INCLUDE IN TOTAL DOMESTIC DEMAND - LINE 46)			
8			
9			
10			
11 *♦MOTOR GASOLINE	46. 12.	58. 122.	71. 210.
12 *♦JET FUEL (AVIATION)			
13 ATK (COMMERCIAL)	0. 0.	0. 0.	0. 0.
14 JP4	0. 0.	0. 0.	0. 0.
15 TOTAL			
16 *♦KEROSENE			
17 RESIDENTIAL AND COMMERCIAL			
18 TOTAL			
19 *♦GAS OIL			
20 RESIDENTIAL AND COMMERCIAL			
21 INDUSTRIAL			
22 *♦GAS OIL			
23 RESIDENTIAL AND COMMERCIAL			
24 INDUSTRIAL			
25 AGRICULTURE			
26 HIGHWAY			
27 RAILWAY			
28			
29 ELECTRIC POWER (MWE)			
30 INTERNAL MARINE DIESEL			
31 TOTAL			
32			
33			
34 *♦FUEL OIL			
35 RESIDENTIAL AND COMMERCIAL			
36 INDUSTRIAL NEI			
37 COPPER PRODUCTION			
38 SUGAR PRODUCTION			
39 CEMENT PRODUCTION			
40 ELECTRIC POWER (MWE)			
41 BRICK PRODUCTION			
42 TOTAL	47. 43	50. 43	2. 7.
43 *♦REFINERY USE AND LOSS			
44 OTHER (BITUMEN, WAXES)	0. 15.	0. 20.	0. 25.
45			
46 *♦TOTAL DOMESTIC (EXCL LINE 7)	377. 4	416. 1	473. 9
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146 *♦TOTAL DOMESTIC (EXCL LINE 7)	377. 4	416. 1	473. 9
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246 *♦TOTAL DOMESTIC (EXCL LINE 7)	377. 4	416. 1	473. 9
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346 *♦TOTAL DOMESTIC (EXCL LINE 7)	377. 4	416. 1	473. 9
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446 *♦TOTAL DOMESTIC (EXCL LINE 7)	377. 4	416. 1	473. 9
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LOW GAS GROWTH SCENARIO

REPORT 204

PETROLEUM PRODUCT DEMAND IN AZABAYJAN SHANGHI
THOUSANDS OF CUBIC METERS

** HISTORY **

	1972	1973	1974	1977	1982	1987	1992	1997
	2531	2532	2533	2536	2541	2546	2551	2556
1 *oLPG								
2 RESIDENTIAL AND COMMERCIAL	9.	11.	13.	21.	39.	68.	116.	182.
3 INDUSTRIAL	1.	1.	1.	2.	4.	6.	13.	20.
4 TOTAL	10.	12.	14.	23.	43.	75.	129.	202.
* 6 *AVIATION GASCLINE	0.	0.	0.	1.	1.	1.	1.	1.
7 *PETROCHEMICAL FEEDSTOCK	0.	0.	0.	0.	0.	0.	0.	0.
8 (NOT INCLUDED IN TOTAL DOMESTIC DEMAND - LINE 46)								
9 DOMESTIC DEMAND								
10								
11								
12 *MOTOR GASCLINE	59.	73.	89.	153.	269.	448.	746.	1030.
13 *JET FUEL (AVIATION)								
14 ATK (COMMERCIAL)	1.	1.	1.	6.	52.	63.	134.	198.
15 JP4	4.	5.	11.	16.	24.	35.	55.	86.
16 TOTAL	4.	5.	11.	22.	76.	119.	188.	286.
17								
18								
19 *KEROSENE								
20 RESIDENTIAL AND COMMERCIAL								
21								
22 *GAS OIL								
23 RESIDENTIAL AND COMMERCIAL								
24 INDUSTRIAL	2.	2.	4.	4.	4.	4.	15.	24.
25	30.	46.	67.	151.	151.	154.	408.	604.
26 AGRICULTURE								
27 HIGHWAY	49.	54.	77.	118.	176.	272.	377.	
28 RAILWAY	110.	127.	199.	333.	530.	882.	1401.	
29	15.	16.	28.	47.	75.	125.	199.	
30 ELECTRIC POWER (HGE)								
31 INTERNAL MARINE DIESEL	36.	33.	19.	7.	14.	12.	362.	
32 TOTAL	0.	0.	0.	0.	0.	0.	0.	
33 *FUEL OIL	194.	242.	280.	394.	664.	1064.	1724.	2579.
34 RESIDENTIAL AND COMMERCIAL								
35 INDUSTRIAL NEI	51.	43.	60.	93.	135.	195.	266.	
36 COPPER PRODUCTION	62.	87.	120.	268.	452.	726.	1075.	
37 SUGAR PRODUCTION	0.	0.	0.	0.	0.	0.	0.	
38 CEMENT PRODUCTION	0.	0.	0.	55.	69.	82.	91.	
39 ELECTRIC POWER (HGE)	28.	35.	72.	172.	187.	265.	316.	
40 BRICK PRODUCTION	40.	20.	16.	787.	1165.	1528.	1528.	
41 TOTAL	157.	192.	111.	18.	31.	47.	68.	92.
*42 REFINERY USE AND LOSS	0.	0.	0.	286.	1413.	1622.	2404.	3369.
*43 OTHER (BITUMEN, LUBES, WAXES)	20.	25.	31.	0.	198.	198.	1134.	2070.
44								
45								
*46 TOTAL DOMESTIC (EXCL LINE 7)	723.8	861.3	993.3	1495.1	3727.9	5414.4	9035.9	13891.9

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 205

PETROLEUM PRODUCT DEMAND IN AZERBAIJAN CHARTS
THOUSANDS OF CUBIC METERS

** HISTORY **

	1972	1973	1974	1977	1982	1987	1992	1997
	2531	2532	2533	2536	2541	2546	2551	2556
1 *LPG								
2 RESIDENTIAL AND COMMERCIAL	3*	4*	4*	6*	12*	21*	37*	56*
3 INDUSTRIAL	0*	0*	0*	1*	1*	2*	4*	6*
4 TOTAL	3*	4*	4*	7*	13*	23*	41*	65*
5 * AVIATION GASOLINE								
6 *PETROCHEMICAL FEEDEXTRUCK	0*	0*	0*	0*	0*	0*	0*	0*
7 *NOT INCLUDE IN TOTAL	0*	0*	0*	0*	0*	0*	0*	0*
8 DOMESTIC DEMAND - LINE 46)								
9								
10								
11								
12 **MOTOR GASOLINE								
13 *JET FUEL (AVIATION)	27*	32*	46*	82*	147*	252*	431*	666*
14 ATK (COMMERCIAL)	0*	0*	0*	0*	0*	0*	0*	0*
15 JP4	0*	0*	0*	0*	0*	0*	0*	0*
16 TOTAL	0*	0*	0*	0*	0*	0*	0*	0*
17								
18 **KEROSENE								
19 RESIDENTIAL AND COMMERCIAL	120*	133*	156*	245*	432*	713*	1163*	1731*
20								
21 **GAS OIL								
22 RESIDENTIAL AND COMMERCIAL	0*	1*	2*	5*	8*	14*	391*	21*
23 INDUSTRIAL	22*	22*	32*	74*	161*	398*		
24 AGRICULTURE	26*	32*	50*	81*	132*	217*	321*	
25 HIGHWAY	51*	52*	84*	143*	233*	399*		641*
26 RAILWAY	0*	0*	0*	0*	0*	0*		0*
27								
28 ELECTRIC POWER (MWE)	5*	1*	0*	0*	0*	0*		
29 INTERNAL MARINE DIESEL	0*	0*	0*	0*	0*	0*		0*
30 TOTAL	88*	104*	108*	168*	302*	534*	1019*	1681*
31								
32 **FUEL CIL								
33 RESIDENTIAL AND COMMERCIAL	34*	32*	46*	71*	106*	156*		
34 INDUSTRIAL NEI	0*	11*	17*	38*	83*	202*		213*
35 COPPER PRODUCTION	0*	0*	0*	0*	0*	0*		360*
36 SUGAR PRODUCTION	28*	21*	42*	79*	97*	105*		0*
37 CEMENT PRODUCTION	0*	0*	0*	0*	52*	117*		
38 ELECTRIC POWER (MWE)	2*	5*	0*	0*	0*	127*		
39 BRICK PRODUCTION	14*	14*	24*	41*	41*	0*		0*
40 TOTAL	56*	78*	83*	128*	229*	93*		125*
41 *REFINERY USE AND LOSS	0*	0*	0*	0*	0*	663*		943*
42 **OTHER (BITUMEN, LURES, WAXES)	9*	11*	16*	28*	50*	0*		0*
43 TOTAL DOMESTIC (EXCL LINE 7)	303.0	362.1	413.1	657.4	1174.1	2007.3	3461.1	5312.8

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 200

PETROLEUM PRODUCT DEMAND IN ZANJAN
THOUSANDS OF CUBIC METERSPAGE 206-1
11/09/77

	** HISTORY **						** PROJECTION **					
	1972	1973	1974	1977	1982	1987	1992	1997	2002	2007	2012	2017
1 *LPG	2531	2532	2533	2536	2541	2546	2551	2556				
2 RESIDENTIAL AND COMMERCIAL	1*	2*	2*	3*	6*	12*	22*	36*				
3 INDUSTRIAL	0*	0*	0*	0*	1*	1*	1*	4*				
4 TOTAL	1*	2*	2*	3*	7*	13*	24*	40*				
* 5 *AVIATION GASLINE	0*	0*	0*	0*	0*	0*	0*	0*				
6 *PETROCHEMICAL FEEDSTOCK	0*	0*	0*	0*	0*	0*	0*	0*				
7 (NOT INCLUDED IN TOTAL)												
8 DOMESTIC DEMAND - LINE 46)												
9												
10												
11												
12 **MOTOR GASOLINE	7*	9*	11*	20*	38*	68*	121*	197*				
13 *JET FUEL (AVIATION)												
14 ATK (COMMERCIAL)	0*	0*	0*	0*	0*	0*	0*	0*				
15 JP4	0*	0*	0*	0*	0*	0*	0*	0*				
16 TOTAL	0*	0*	0*	0*	0*	0*	0*	0*				
17												
18												
19 **KEROSENE												
20 RESIDENTIAL AND COMMERCIAL												
21												
22 **GAS OIL												
23 RESIDENTIAL AND COMMERCIAL												
24 INDUSTRIAL												
25												
26 AGRICULTURE												
27 HIGHWAY												
28 RAILWAY												
29												
30 ELECTRIC POWER (MWE)												
31 INTERNAL MARINE DIESEL												
32 TOTAL												
33												
34 **FUEL OIL												
35 RESIDENTIAL AND COMMERCIAL												
36 INDUSTRIAL NEI	7*	9*	13*	21*	32*	49*	69*					
37 COPPER PRODUCTION	3*	1*	1*	3*	6*	12*	18*					
38 SUGAR PRODUCTION	0*	0*	0*	0*	0*	0*	0*					
39 CEMENT PRODUCTION	0*	0*	0*	0*	0*	0*	0*					
40 ELECTRIC POWER (MWE)	0*	0*	0*	0*	0*	0*	0*					
41 BRICK PRODUCTION	0*	0*	0*	0*	0*	0*	0*					
42 TOTAL	9*	11*	11*	1*	2*	4*	5*					
*43 **REFINERY USE AND LOSS	0*	0*	0*	16*	27*	42*	66*					
44 **OTHER (BITUMEN, LUBES, WAXES)	2*	3*	4*	0*	0*	0*	0*					
45												
*46 **TOTAL DOMESTIC (EXCL LINE 7)	76.3	95.1	106.9	166.1	305.1	526.7	916.9	1461.5				

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 207

PETROLEUM PRODUCT DEMAND IN KOREAN

THOUSANDS OF CUBIC METERS

PAGE 2n7-1
11/09/77

	HISTORY			PROJECTION		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1 *LPG						
2 RESIDENTIAL AND COMMERCIAL	2.	2.	3.	5.	10.	20.
3 INDUSTRIAL	0.	0.	0.	1.	1.	4.
4 TOTAL	2.	2.	3.	5.	12.	22.
5 AVIATION GASOLINE	0.	0.	0.	0.	0.	0.
6 PETROCHEMICAL FEEDSTOCK	0.	0.	0.	0.	0.	0.
7 (NOT INCLUDED IN TOTAL)						
8 DOMESTIC DEMAND - LINE 46)						
9						
10						
11						
12 MOTOR GASOLINE	9.	10.	14.	25.	47.	82.
13						
14 JET FUEL (AVIATION)						
15 ATK (COMMERCIAL)	0.	0.	0.	0.	0.	0.
16 JP4	0.	0.	0.	0.	0.	0.
17 TOTAL	0.	0.	0.	0.	0.	0.
18						
19 KEROSENE						
20 RESIDENTIAL AND COMMERCIAL						
21 INDUSTRIAL						
22 GAS OIL						
23 RESIDENTIAL AND COMMERCIAL	0.	0.	1.	3.	5.	8.
24 INDUSTRIAL	3.	5.	8.	22.	48.	109.
25						
26 AGRICULTURE						
27 HIGHWAY	9.	10.	15.	29.	50.	85.
28 RAILWAY	23.	25.	40.	71.	126.	211.
29						
30 ELECTRIC POWER (MOE)						
31 INTERNAL MACHINE DIESEL	7.	7.	0.	0.	0.	0.
32 TOTAL	0.	0.	0.	0.	0.	0.
33						
34 FUEL OIL						
35 RESIDENTIAL AND COMMERCIAL	6.	8.	12.	20.	31.	47.
36 INDUSTRIAL NEI	5.	7.	10.	26.	57.	127.
37 COPPER PRODUCTION	0.	0.	0.	0.	0.	0.
38 SUGAR PRODUCTION	0.	0.	0.	0.	0.	0.
39 CEMENT PRODUCTION	0.	0.	0.	0.	0.	0.
40 ELECTRIC POWER (MOE)	0.	0.	0.	0.	0.	0.
41 BRICK PRODUCTION	0.	0.	0.	0.	0.	0.
42 TOTAL	13.	15.	2.	3.	5.	12.
43 REFINERY USE AND LOSS	0.	0.	0.	25.	51.	96.
44 OTHER(BIUMA,LURES,MAXES)	3.	3.	5.	0.	0.	0.
45						
+46 TOTAL DOMESTIC (EXCL LINE 7)	108.0	122.5	145.9	228.2	440.9	718.6

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.
+46 TOTAL DOMESTIC (EXCL LINE 7) 108.0 122.5 145.9 228.2 440.9 718.6 1440.1 2344.3

LOW GAS GROWTH SCENARIO

REPORT 1 20d

PETROLEUM PRODUCT DEMAND IN HAWAIIAN
THOUSANDS OF CUBIC METERSPAGE 208-1
11/09/77

	HISTORY **			** PROJECTION **		
	1972	1973	1974	1977	1982	1987
1 **LPG	2531	2532	2533	2536	2541	2546
2 RESIDENTIAL AND COMMERCIAL	3.	3.	4.	6.	11.	20.
3 INDUSTRIAL	0.	0.	1.	1.	2.	35.
4 TOTAL	3.	3.	4.	6.	12.	62.
5 **AVIATION GASOLINE	0.	0.	1.	0.	0.	0.
6 **PETROCHEMICAL FEEDSTOCK	0.	0.	0.	0.	0.	0.
7 (NOT INCLUDED IN TOTAL DOMESTIC DEMAND - LINE 46)						
8 (NOT INCLUDED IN TOTAL DOMESTIC DEMAND - LINE 46)						
9 DOMESTIC DEMAND						
10						
11						
12 **MOTOR GASOLINE	20.	25.	29.	52.	93.	162.
13						
14 **JET FUEL (AVIATION)						
15 ATK (COMMERCIAL)	0.	0.	0.	0.	0.	0.
16 JP4	20.	48.	75.	115.	170.	261.
17 TOTAL	20.	48.	75.	115.	170.	261.
18						
19 **KEROSENE						
20 RESIDENTIAL AND COMMERCIAL	16.					
21						
22 **GAS OIL						
23 RESIDENTIAL AND COMMERCIAL	78.	82.	96.	146.	256.	426.
24 INDUSTRIAL	3.	4.	6.	17.	30.	50.
25	12.	14.	24.	51.	101.	183.
26 AGRICULTURE						
27 HIGH-WAY	33.	36.	53.	86.	129.	196.
28 RAILWAY	46.	49.	79.	136.	224.	388.
29	0.	0.	0.	0.	0.	0.
30 ELECTRIC POWER (MWE)	4.	2.	0.	0.	0.	0.
31 INTERNAL MARINE DIESEL	0.	0.	0.	0.	0.	0.
32 TOTAL	98.	105.	104.	284.	484.	816.
33						
34 **FUEL OIL						
35 RESIDENTIAL AND COMMERCIAL	35.	41.	57.	88.	130.	192.
36 INDUSTRIAL NEI	11.	15.	19.	40.	80.	144.
37 COPPER PRODUCTION	0.	0.	0.	0.	0.	0.
38 SUGAR PRODUCTION	7.	7.	7.	10.	10.	12.
39 CEMENT PRODUCTION	0.	0.	0.	5.	12.	14.
40 ELECTRIC POWER (MWE)	0.	0.	0.	0.	108.	127.
41 BRICK PRODUCTION	0.	3.	0.	0.	0.	0.
42 TOTAL	52.	57.	70.	90.	128.	186.
43 **REFINERY USE AND LOSS	0.	0.	0.	149.	249.	462.
44 **OTHER INDUSTRY, LURES, WAXES)	7.	9.	10.	0.	0.	0.
45						
46 **TOTAL DOMESTIC (EXCL LINE 7)	267.0	294.0	362.7	549.7	946.7	1606.1

NOTE ** MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTER VALUES.

LOW GAS GROWTH SCENARIO

REPORT 209

PETROLEUM PRODUCT DEMAND IN KERMANSHAHAN
THOUSANDS OF CUBIC METERSPAGE 209-1
11/09/77

** HISTORY **

		1972	1973	1974	1977	1982	1987	1992	1997
		2531	2532	2533	2536	2541	2546	2551	2556
1	**LPG								
2	RESIDENTIAL AND COMMERCIAL	4.	5.	7.	11.	21.	36.	63.	100.
3	INDUSTRIAL	1.	1.	1.	1.	2.	4.	7.	11.
4	TOTAL	5.	6.	8.	13.	23.	40.	70.	111.
*	**AVIATION GASOLINE	0.	0.	0.	0.	0.	0.	0.	0.
*	**PETROCHEMICAL FEEDSTOCK	0.	0.	0.	0.	0.	0.	0.	0.
*	(NOT INCLUDED IN TOTAL DOMESTIC DEMAND - LINE 46)								
10	DOMESTIC DEMAND								
11									
12	**MOTOR GASOLINE								
13		32.	39.	50.	67.	152.	257.	435.	605.
14	**JET FUEL (AVIATION)								
15	ATK (COMMERCIAL)	0.	0.	0.	6.	10.	17.	27.	40.
16	JPA	0.	0.	0.	0.	0.	0.	0.	0.
17	TOTAL	0.	0.	0.	6.	10.	17.	27.	40.
18									
19	**KERSENE								
20	RESIDENTIAL AND COMMERCIAL	75.	78.	98.	145.	245.	398.	638.	947.
21									
22	**GAS OIL								
23	RESIDENTIAL AND COMMERCIAL	1.	1.	2.	4.	7.	11.	14.	17.
24	INDUSTRIAL	11.	13.	21.	46.	69.	104.	157.	
25									
26	AGRICULTURE	20.	23.	36.	64.	121.	205.	315.	
27	HIGHWAY	65.	76.	119.	199.	422.	545.	877.	
28	RAILWAY	0.	0.	0.	0.	0.	0.	0.	
29									
30	ELECTRIC POWER (MWE)	5.	4.	39.	15.	29.	66.	127.	
31	INTERNAL MARINE DIESEL	0.	0.	0.	0.	0.	0.	0.	
32	TOTAL	83.	101.	117.	218.	327.	547.	933.	1493.
33									
34	**FUEL OIL								
35	RESIDENTIAL AND COMMERCIAL	11.	25.	34.	51.	75.	106.	149.	
36	INDUSTRIAL NEI	43.	29.	38.	62.	122.	185.	280.	
37	COPPER PRODUCTION	0.	0.	0.	0.	0.	0.	0.	
38	SUGAR PRODUCTION	20.	20.	24.	53.	69.	104.	166.	
39	CEMENT PRODUCTION	0.	0.	0.	99.	1n7.	221.	254.	
40	ELECTRIC POWER (MWE)	0.	9.	0.	0.	0.	0.	0.	
41	BRICK PRODUCTION	1.	1.	2.	2.	4.	5.	7.	
42	TOTAL	66.	75.	84.	288.	377.	625.	807.	
*	**REFINERY USE AND LOSS	56.	62.	78.	74.	74.	1010.	1930.	
44	**OTHER(BITUMEN,LUBES,WAXES)	11.	13.	16.	29.	51.	87.	146.	
*	**TOTAL DOMESTIC (EXCL LINE 7)	327.7	374.5	452.5	669.2	1170.4	1757.2	3883.8	6136.9

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

PETROLEUM PRODUCT DEMAND IN LOREstan
THOUSANDS OF CUBIC METERS

PAGE 210-1
11/09/77

PETROLEUM PRODUCT DEMAND IN IRAN
THOUSANDS OF CUBIC METERS

PAGE 211-1
11/09/77

	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546	1992 2551	1997 2556
1 *ELPG								
2 RESIDENTIAL AND COMMERCIAL	0*	0*	0*	1*	2*	5*	8*	
3 INDUSTRIAL	0*	0*	0*	0*	0*	1*	1*	
4 TOTAL	0*	0*	0*	1*	3*	5*	9*	
5 *AVIATION GASLINE	0*	0*	0*	0*	0*	0*	0*	
6 *PETROCHEMICAL FEEDSTOCK	0*	0*	0*	0*	0*	0*	0*	
7 (NOT INCLUDED IN TOTAL DOMESTIC DEMAND - LINE 46)	0*	0*	0*	0*	0*	0*	0*	
8								
9 DOMESTIC DEMAND	9	9	9	9	9	9	9	
10								
11 12 *MOTOR GASCLINE	2*	2*	3*	6*	11*	20*	37*	60*
13 14 *JET FUEL (AVIATION) ATK (COMMERCIAL)	0*	0*	0*	0*	0*	0*	0*	0*
15 JP4	0*	0*	0*	0*	0*	0*	0*	0*
16 TOTAL	0*	0*	0*	0*	0*	0*	0*	0*
17								
18 19 *KEROSENE								
20 RESIDENTIAL AND COMMERCIAL	13*	14*	17*	27*	49*	86*	144*	221*
21 22 *GAS OIL								
23 RESIDENTIAL AND COMMERCIAL INDUSTRIAL	0*	0*	0*	1*	1*	2*	3*	6*
24								
25 AGRICULTURE	1*	1*	1*	2*	3*	5*	9*	15*
26 HIGHWAY	3*	4*	7*	12*	22*	39*	67*	0*
27 RAILWAY	0*	0*	0*	0*	0*	0*	0*	0*
28								
29 ELECTRIC POWER (MWE) INTERNAL MARINE DIESEL	0*	0*	0*	0*	0*	0*	0*	0*
30 TOTAL	5*	6*	11*	20*	37*	70*	120*	
31								
32 33 *FUEL CIL								
34 RESIDENTIAL AND COMMERCIAL INDUSTRIAL NEI	0*	0*	0*	5*	12*	24*	52*	95*
35 COPPER PRODUCTION	4*	4*	0*	0*	0*	0*	0*	0*
36 SUGAR PRODUCTION	0*	0*	0*	0*	0*	0*	0*	0*
37 CEMENT PRODUCTION	0*	0*	0*	0*	0*	0*	0*	0*
38 ELECTRIC POWER (MWE)	0*	0*	0*	0*	0*	0*	0*	0*
39 BRICK PRODUCTION	0*	0*	0*	0*	0*	0*	0*	0*
40 TOTAL	4*	4*	4*	1*	1*	1*	2*	2*
41 42 OTHER (BILJUM, LUBES, WAXES)	0*	0*	0*	6*	13*	25*	55*	95*
43								
44 45 *TOTAL DOMESTIC (EXCL LINE 7)	1*	1*	1*	1*	0*	0*	0*	0*
46								
* MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO ACTIVE CONVENTIONAL VALUES.	23.7	25.7	31.5	52.0	97.1	178.3	323.4	529.9

LOW GAS GROWTH SCENARIO

REPORT 212

PETROLEUM PRODUCT DEMAND IN KUHZEYSTAN
THOUSANDS OF CUBIC METERSPage 212-1
11/09/77

	HISTORY				PROJECTION			
	1972	1973	1974	1977	1982	1987	1992	1997
1 * * LPG	2531	2532	2533	2536	2541	2546	2551	2556
2 RESIDENTIAL AND COMMERCIAL	34.	42.	51.	76.	125.	195.	308.	456.
3 INDUSTRIAL	4.	5.	6.	8.	14.	22.	34.	51.
4 TOTAL	38.	47.	57.	85.	139.	217.	342.	506.
* 5 * AVIATION GASOLINE	1.	1.	1.	1.	1.	1.	1.	1.
* 6 * PETROCHEMICAL FEEDSTOCK	111.	111.	111.	233.	11387.	20434.	20989.	20989.
* 7 * NOT INCLUDED IN TOTAL DOMESTIC DEMAND = LINE 46)								
8 INTERNAL MARINE DIESEL								
9 TOTAL								
10 INTERNAL MARINE DIESEL								
11 TOTAL								
12 * * MOTOR GASOLINE	122.	155.	185.	305.	475.	713.	980.	1299.
13 * * JET FUEL (AVIATION)								
14 * * ATK (COMMERCIAL)	33.	39.	49.	72.	116.	187.	277.	376.
15 * * JP4	40.	44.	67.	103.	152.	234.	376.	553.
16 TOTAL	73.	83.	117.	176.	268.	421.	653.	
17 TOTAL	58.	68.	83.	117.	176.	268.	421.	653.
18 TOTAL								
19 * * KEROSENE								
20 RESIDENTIAL AND COMMERCIAL								
21 TOTAL								
22 * * GAS OIL								
23 RESIDENTIAL AND COMMERCIAL								
24 INDUSTRIAL	3.	15.	27.	47.	74.	112.	161.	
25 TOTAL	101.	141.	208.	342.	413.	493.	683.	
26 AGRICULTURE								
27 HIGHWAY	47.	59.	88.	137.	205.	316.	484.	
28 RAILWAY	256.	299.	435.	652.	947.	1450.	2149.	
29 ELECTRIC POWER (MWE)	65.	82.	124.	185.	264.	411.	610.	
30 INTERNAL MARINE DIESEL								
31 TOTAL	7.	2.	0.	0.	0.	0.	0.	
32 TOTAL	23.	26.	30.	34.	40.	45.	52.	
33 TOTAL	502.	614.	912.	1397.	1447.	2830.	4140.	
34 * * FUEL CIL								
35 RESIDENTIAL AND COMMERCIAL								
36 INDUSTRIAL NEI	75.	120.	157.	220.	297.	404.	527.	
37 COPPER PRODUCTION	109.	97.	108.	176.	213.	254.	353.	
38 SUGAR PRODUCTION	0.	0.	0.	0.	0.	0.	0.	
39 CEMENT PRODUCTION	83.	72.	96.	155.	150.	362.	605.	
40 ELECTRIC POWER (MWE)	0.	0.	0.	0.	106.	119.	254.	
41 BRICK PRODUCTION	0.	0.	0.	1482.	1713.	0.	0.	
42 TOTAL	241.	275.	293.	25.	34.	47.	61.	
* 43 * * REFINERY USE AND LOSS	888.	1579.	1461.	664.	2167.	266.	1286.	1599.
* 44 * * OTHER (BILIMEN, LUBES, WAXES)	41.	54.	65.	1452.	1742.	1575.	1632.	
* 45 * * TOTAL DOMESTIC (EXCL LINE 7)				103.	160.	240.	370.	437.
* 46 * * TOTAL DOMESTIC (EXCL LINE 7)	1789.3	2733.8	2815.8	3719.1	6385.0	7523.3	8066.9	10693.9

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 213

PETROLEUM PRODUCT DEMAND IN CHAHAN-MOHAL WARMYARI
THOUSANDS OF CUBIC METERSPAGE 213-1
11/09/77

	** HISTORY **		** PROJECTION **	
	1972 2531	1973 2532	1974 2533	1977 2536
1 *LPG				
2 RESIDENTIAL AND COMMERCIAL	1*	1*	1*	2*
3 INDUSTRIAL	0*	0*	0*	0*
4 TOTAL	1*	1*	1*	2*
5 * AVIATION GASCLINE	0*	0*	0*	0*
6 * PETROCHEMICAL FEEDSTOCK	0*	0*	0*	0*
7 (NOT INCLUDE IN TOTAL)	0*	0*	0*	0*
8 DOMESTIC DEMAND - LINE 46)				
9				
10				
11				
12 ** MOTOR GASOLINE	4*	5*	6*	10*
13 ** JET FUEL (AVIATION)				
14 ATK (COMMERCIAL)	0*	0*	0*	0*
15 JP4	0*	0*	0*	0*
16 TOTAL	0*	0*	0*	0*
17				
18				
19 ** KEROSENE				
20 RESIDENTIAL AND COMMERCIAL				
21				
22 ** GAS OIL				
23 RESIDENTIAL AND COMMERCIAL				
24 INDUSTRIAL	0*	0*	1*	1*
25	3*	3*	5*	8*
26 AGRICULTURE	3*	3*	4*	7*
27 HIGHWAY	4*	5*	6*	13*
28 RAILWAY	0*	0*	0*	0*
29				
30 ELECTRIC POWER (MWE)	0*	0*	0*	0*
31 INTERNAL MARINE DIESEL	0*	0*	0*	0*
32 TOTAL	9*	10*	11*	17*
33				
34 ** FUEL OIL				
35 RESIDENTIAL AND COMMERCIAL	0*	0*	1*	1*
36 INDUSTRIAL (EI)	11*	6*	11*	16*
37 COPPER PRODUCTION	0*	0*	0*	0*
38 SUGAR PRODUCTION	0*	0*	0*	0*
39 CEMENT PRODUCTION	0*	0*	7*	10*
40 ELECTRIC POWER (MWE)	0*	0*	0*	0*
41 BRICK PRODUCTION	0*	0*	1*	0*
42 TOTAL	11*	11*	8*	3*
43 **REFINERY USE AND LOSS	0*	0*	0*	4*
44 OTHER (BITUMEN, LUBES, WAXES)	1*	2*	2*	3*
45				
*46 **TOTAL DOMESTIC (EXCL LINE 7)	57.3	60.7	65.1	104.9
				190.6
				245.3
				466.8
				636.3

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTER VALUES.

PETROLEUM PRODUCT DEMAND IN SOYER-AMAU AND KOMKILORY
THOUSANDS OF CUBIC METERS

PAGE 214-1
11/09/77

	* HISTORY *			* PROJECTION *		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1 *SLPG						
2 RESIDENTIAL AND COMMERCIAL	1*	1*	1*	2*	4*	8*
3 INDUSTRIAL	0*	0*	0*	0*	1*	16*
4 TOTAL	1*	1*	1*	2*	5*	2*
5 * AVIATION GASOLINE	0*	0*	0*	0*	9*	18*
6 *PETROCHEMICAL FEEDSTOCK (NOT INCLUDED IN TOTAL)	0*	0*	0*	0*	0*	0*
7 DOMESTIC DEMAND - LINE 46)						
11						
12 *MOTOR GASOLINE	2*	2*	3*	5*	11*	20*
13 *JET FUEL (AVIATION)						
14 ATK (COMMERCIAL)	0*	0*	0*	0*	0*	0*
15 JP4	0*	0*	0*	0*	0*	0*
16 TOTAL	0*	0*	0*	0*	0*	0*
18						
19 *KEROSENE						
20 RESIDENTIAL AND COMMERCIAL	9*	9*	11*	19*	37*	64*
21						
22 *GAS OIL						
23 RESIDENTIAL AND COMMERCIAL	0*	1*	3*	3*	7*	14*
24 INDUSTRIAL	2*	3*	6*	24*	43*	26*
25						
26 AGRICULTURE	1*	1*	1*	1*	3*	42*
27 HIGHWAY	6*	7*	11*	11*	21*	43*
28 RAILWAY	0*	0*	0*	0*	37*	175*
29						
30 ELECTRIC POWER (MWE)						
31 INTERNAL MACHINE DIESEL	0*	0*	0*	0*	0*	0*
32 TOTAL	0*	0*	0*	0*	0*	0*
33						
34 *FUEL OIL	8*	9*	12*	21*	55*	98*
35 RESIDENTIAL AND COMMERCIAL						
36 INDUSTRIAL HEI	0*	0*	1*	1*	1*	2*
37 COPPER PRODUCTION	6*	7*	13*	54*	97*	24*
38 SUGAR PRODUCTION	0*	0*	0*	0*	0*	0*
39 CEMENT PRODUCTION	0*	0*	4*	4*	4*	4*
40 ELECTRIC POWER (MWE)	0*	0*	0*	0*	0*	0*
41 BRICK PRODUCTION	0*	0*	0*	0*	0*	0*
42 TOTAL	7*	6*	7*	17*	60*	1*
43 *REFINERY USE AND LOSS	0*	0*	0*	0*	1*	1*
44 *OTHER(BITUMEN,LURES,WAXES)	1*	1*	1*	2*	0*	0*
45						
*46 *TOTAL DOMESTIC (EXCL LINE 7)	27.7	27.7	35.1	67.1	171.8	301.4
NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.						

Note *means that the forecast values for this row have been entered as input, as opposed to being computed values.

LOW GAS GROWTH SCENARIO

NET FORTNIGHTLY

PETROLEUM PRODUCT DEMAND IN INDIA
THOUSANDS OF CUBIC METERSPAGE 215-1
11/09/77

** HISTORY **

	** HISTORY **			** PROJECTION **		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1 *LPG						
2 RESIDENTIAL AND COMMERCIAL	0*	0*	0*	1*	1*	2*
3 INDUSTRIAL	0*	0*	0*	0*	0*	4*
4 TOTAL	0*	0*	0*	1*	1*	1*
5 * AVIATION GASOLINE	0*	0*	0*	0*	0*	0*
6 * PETROCHEMICAL FEEDSTOCK	0*	0*	0*	0*	0*	0*
7 * NOT INCLUDED IN TOTAL	0*	0*	0*	0*	0*	0*
8 DOMESTIC DEMAND - LINE 4b)						
9						
10						
11						
12 ** MOTOR GASOLINE	9*	12*	14*	25*	46*	78*
13						
14 ** JET FUEL (AVIATION)						202*
15 ATK (COMMERCIAL)						
16 JP4						
17 TOTAL	11*	14*	16*	25*	38*	57*
18						
19 ** KEROSENE						
20 RESIDENTIAL AND COMMERCIAL						
21						
22 ** GAS OIL						
23 RESIDENTIAL AND COMMERCIAL	8*	9*	10*	16*	29*	48*
24						
25 INDUSTRIAL	2*	2*	5*	13*	23*	42*
26 AGRICULTURE	25*	25*	39*	87*	163*	284*
27 HIGHWAY	12*	15*	22*	37*	54*	98*
28 RAILWAY	13*	13*	21*	37*	59*	107*
29						
30 ELECTRIC POWER (MGE)	0*	0*	0*	0*	0*	0*
31 INTERNAL MARINE DIESEL	10*	10*	46*	0*	0*	0*
32 TOTAL	0*	0*	0*	0*	0*	0*
33						
34 ** FUEL OIL	41*	62*	65*	134*	174*	305*
35 RESIDENTIAL AND COMMERCIAL						
36 INDUSTRIAL AND COMMERCIAL	2*	2*	3*	5*	8*	13*
37 COPPER PRODUCTION	5*	7*	7*	15*	26*	46*
38 SUGAR PRODUCTION	0*	0*	0*	0*	0*	0*
39 CEMENT PRODUCTION	0*	0*	0*	0*	0*	0*
40 ELECTRIC POWER (MGE)	0*	0*	0*	0*	0*	0*
41 BRICK PRODUCTION	0*	4*	0*	0*	0*	0*
42 TOTAL	9*	8*	1*	2*	3*	4*
43 **REFINERY USE AND LOSS	0*	0*	14*	12*	23*	5*
44 **OTHER (BITUMEN, LUBES, WAXES)	3*	4*	5*	8*	0*	66*
45						
46 **TOTAL DOMESTIC (EXCL LINE 7)	81.2	105.4	124.4	219.8	327.6	554.4

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

** MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 216

PETROLEUM PRODUCT DEMAND IN FAHS
THOUSANDS OF CUBIC METERSPAGE 216-1
11/09/77

	HISTORY **			** PROJECTION **		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1 *LPG						
2 RESIDENTIAL AND COMMERCIAL	17.	22.	26.	39.	66.	101.
3 INDUSTRIAL	2.	2.	3.	4.	11.	155.
4 TOTAL	19.	24.	29.	43.	73.	111.
5 *AVIATION GASOLINE	1.	1.	1.	1.	1.	17.
6 *PETROCHEMICAL FEEDSTOCK	0.	0.	0.	0.	0.	172.
7 NOT INCLUDED IN TOTAL						172.
8 DOMESTIC DEMAND - LINE 46)						262.
9						
10						
11						
12 *MOTOR GASOLINE						
13 JET FUEL (AVIATION)	61.	95.	116.	146.	330.	525.
14 ATK (COMMERCIAL)	14.	16.	25.	52.	83.	134.
15 JP4	57.	68.	106.	164.	240.	370.
16 TOTAL	56.	71.	94.	131.	215.	323.
17						
18 *KEROSENE						
19 RESIDENTIAL AND COMMERCIAL	106.	107.	119.	165.	258.	376.
20						
21 GAS OIL						
22 RESIDENTIAL AND COMMERCIAL	1.	2.	4.	7.	10.	15.
23 INDUSTRIAL	37.	39.	48.	102.	179.	3n3.
24 AGRICULTURE	90.	96.	133.	193.	269.	361.
25 HIGHWAY	98.	112.	173.	278.	425.	478.
26 RAILWAY	0.	0.	0.	0.	683.	1646.
27						
28 ELECTRIC POWER (HDE)	12.	26.	0.	0.	0.	0.
29 INTERNAL MARINE DIESEL	0.	0.	0.	0.	0.	0.
30 TOTAL	190.	238.	275.	357.	580.	833.
31						
32						
33						
34 *FUEL OIL						
35 RESIDENTIAL AND COMMERCIAL	15.	27.	35.	50.	68.	90.
36 INDUSTRIAL NEI	69.	61.	56.	120.	<10.	355.
37 COPPER PRODUCTION	0.	0.	0.	0.	0.	0.
38 SUGAR PRODUCTION	33.	32.	18.	23.	24.	26.
39 CEMENT PRODUCTION	0.	5.	0.	0.	0.	30.
40 ELECTRIC POWER (HDE)	9.	0.	0.	27.	37.	54.
41 BRICK PRODUCTION	0.	0.	0.	0.	0.	0.
42 TOTAL	113.	133.	13.	7.	8.	13.
43 *REFINERY USE AND LOSS	0.	133.	138.	143.	239.	442.
44 *OTHER INDUSTRY, LURES, WAXES	27.	33.	290.	183.	167.	539.
45						766.
46 *TOTAL DOMESTIC (EXCL LINE 7)	593.1	836.4	1092.6	1255.8	1973.8	2906.7
NOTE *MEANS THAT THE FORELAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.						4470.0
						6329.9

LOW GAS GROWTH SCENARIO

REPORT 217

PETROLEUM PRODUCT DEMAND IN SAMELI-JUNQUE
THOUSANDS OF CUBIC METERSPage 217-1
11/09/77

** HISTORY **

** PROJECTION **

	1972	1973	1974	1977	1982	1987	1992	1997
	2531	2532	2533	2536	2541	2546	2551	2556
1 **LPG								
2 RESIDENTIAL AND COMMERCIAL	5.	7.	8.	14.	29.	55.	100.	166.
3 INDUSTRIAL	1.	1.	1.	2.	3.	6.	11.	18.
4 TOTAL	6.	8.	9.	15.	33.	61.	111.	184.
* 6 **AVIATION GASOLINE	0.	0.	0.	0.	0.	0.	0.	0.
7 **PETROCHEMICAL FEEDSTOCK	0.	0.	0.	0.	0.	0.	0.	0.
8 (NOT INCLUDED IN TOTAL)								
9 DOMESTIC DEMAND - LINE 46)								
10								
11								
12 **MOTOR GASOLINE	16.	20.	27.	48.	90.	161.	282.	454.
13								
14 **JET FUEL (AVIATION)								
15 ATK (COMMERCIAL)	4.	6.	19.	12.	31.	50.	80.	119.
16 JP4	8.	12.	25.	30.	46.	66.	104.	167.
17 TOTAL	9.			42.	77.	117.	184.	286.
18								
19 **KEROSENE								
20 RESIDENTIAL AND COMMERCIAL								
21								
22 **GAS OIL								
23 RESIDENTIAL AND COMMERCIAL								
24 INDUSTRIAL								
25								
26 AGRICULTURE								
27 HIGHWAY								
28 RAILWAY								
29								
30 ELECTRIC POWER (MGE)								
31 INTERNAL MARINE DIESEL								
32 TOTAL								
33								
34 **FUEL OIL								
35 RESIDENTIAL AND COMMERCIAL								
36 INDUSTRIAL NEI								
37 COPPER PRODUCTION								
38 SUGAR PRODUCTION								
39 CEMENT PRODUCTION								
40 ELECTRIC POWER (MGE)								
41 BRICK PRODUCTION								
42 TOTAL	19.	32.	39.	1.	2.	3.	4.	6.
*43 **REFINERY USE AND LOSS	0.	0.	0.	0.	0.	0.	0.	0.
44 **OTHER(BIOMASS,LUBES,NAKES)	5.	7.	9.	0.	0.	0.	0.	0.
45								
*46 **TOTAL DOMESTIC (EXCL LINE 7)		151.5	221.1	294.7	922.8	798.5	1583.4	3023.6
								4667.6

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 21d

PETROLEUM PRODUCT DEMAND IN KERMAN
THOUSANDS OF CUBIC METERS

	HISTORY **				PROJECTION **			
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546	1992 2551	1997 2556
1 nOLPG								
2 RESIDENTIAL AND COMMERCIAL	4*	4*	5*	9*	16*	28*	47*	73*
3 INDUSTRIAL	0*	1*	1*	1*	2*	3*	5*	8*
4 TOTAL	4*	5*	6*	10*	18*	31*	52*	81*
* 6 *AVIATION GASCLINE								
7 *PETROCHEMICAL FEEDSTOCK	0*	0*	0*	0*	0*	0*	0*	0*
8 (NOT INCLUDED IN TOTAL)	0*	0*	0*	0*	0*	0*	0*	0*
9 DOMESTIC DEMAND - LINE 46)								
10								
11								
12 *MOTOR GASOLINE								
13	33*	41*	53*	90*	153*	253*	412*	561*
14 *JET FUEL (AVIATION)								
15 ATK (COMMERCIAL)	1*	2*	3*	10*	17*	27*	40*	
16 JPA	0*	0*	0*	0*	0*	0*	0*	
17 TOTAL	1*	1*	2*	3*	10*	17*	27*	
18								
19 *KEROSENE								
20 RESIDENTIAL AND COMMERCIAL	51*	55*	65*	99*	168*	269*	422*	613*
21								
22 *GAS OIL								
23 RESIDENTIAL AND COMMERCIAL	39*	47*	6*	12*	12*	21*	34*	51*
24 INDUSTRIAL								
25								
26 AGRICULTURE	54*	77*	107*	149*	209*	296*	368*	
27 HIGHWAY	57*	66*	102*	166*	263*	428*	665*	
28 RAILWAY	0*	0*	0*	0*	0*	0*	0*	
29								
30 ELECTRIC POWER (MWE)								
31 INTERNAL MARINE DIESEL	17*	3*	91*	34*	66*	61*	91*	
32 TOTAL	0*	0*	0*	0*	0*	0*	0*	
33								
34 *FUEL OIL								
35 RESIDENTIAL AND COMMERCIAL	15*	23*	32*	49*	71*	100*	135*	
36 INDUSTRIAL NEI	4*	21*	23*	40*	67*	121*	192*	
37 COPPER PRODUCTION	0*	0*	89*	137*	378*	378*	378*	
38 SUGAR PRODUCTION	3*	5*	6*	8*	8*	0*	0*	
39 CEMENT PRODUCTION	38*	60*	115*	162*	293*	300*	316*	
40 ELECTRIC POWER (MWE)								
41 BRICK PRODUCTION	11*	58*	79*	0*	0*	0*	0*	
42 TOTAL	58*	81*	10*	16*	35*	56*	74*	
*43 *REFINERY USE AND LOSS	0*	0*	177*	360*	422*	456*	1098*	
44 *OTHER(BITUMEN,LUBES,WAXES)	11*	14*	19*	30*	52*	60*	0*	
45								
*46 *TOTAL DOMESTIC (EXCL LINE 7)	296.1	364.2	517.6	964.7	1310.2	2260.6	3203.3	4358.4

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 218

PETROLEUM PRODUCT DEMAND IN SISTAN AND BALUCHESTAN
THOUSANDS OF CUBIC METERSPAGE 219-1
11/09/77

	** HISTORY **			** PROJECTION **				
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546	1992 2551	1997 2556
1 *LPG								
2 RESIDENTIAL AND COMMERCIAL	1*	1*	2*	3*	8*	14*	27*	47*
3 INDUSTRIAL	0*	0*	0*	0*	1*	2*	3*	5*
4 TOTAL	1*	1*	2*	4*	8*	16*	30*	52*
* 5 *AVIATION GASOLINE	0*	0*	0*	0*	0*	0*	0*	0*
* 6 *PETROCHEMICAL FEEDSTOCK	0*	0*	0*	0*	0*	0*	0*	0*
* 7 *NOT INCLUDED IN TOTAL								
8 DOMESTIC DEMAND - LINE 46)								
10								
11								
12 **MOTOR GASOLINE	9*	13*	17*	29*	58*	104*	150*	312*
13								
14 **JET FUEL (AVIATION)								
15 ATK (COMMERCIAL)	1*	2*	3*	3*	10*	17*	27*	40*
16 JP4	0*	0*	0*	0*	0*	0*	0*	0*
17 TOTAL	1*	1*	2*	3*	10*	17*	27*	40*
18								
19 **KEROSENE								
20 RESIDENTIAL AND COMMERCIAL	18*	21*	25*	94*	144*	248*	366*	
21								
22 **GAS OIL								
23 RESIDENTIAL AND COMMERCIAL	0*	0*	0*	1*	2*	5*	8*	14*
24 INDUSTRIAL	12*	23*	37*	92*	168*	305*	486*	
25								
26 AGRICULTURE	10*	10*	15*	30*	52*	61*	139*	
27 HIGHWAY	20*	21*	33*	61*	102*	187*	322*	
28 RAILWAY	0*	2*	3*	6*	10*	16*	31*	
29								
30 ELECTRIC POWER (MWE)	4*	7*	0*	0*	0*	0*	0*	
31 INTERNAL MARINE DIESEL	0*	0*	0*	0*	0*	0*	0*	
32 TOTAL	27*	46*	63*	98*	191*	337*	610*	
33 **FUEL OIL								
34 RESIDENTIAL AND COMMERCIAL	4*	3*	4*	8*	12*	19*	28*	
35 INDUSTRIAL NEI	8*	13*	19*	47*	87*	156*	251*	
36 COOPER PRODUCTION	0*	0*	0*	0*	0*	0*	0*	
37 SUGAR PRODUCTION	0*	0*	0*	0*	0*	0*	0*	
38 CEMENT PRODUCTION	0*	0*	0*	99*	133*	272*	318*	
39 ELECTRIC POWER (MWE)	0*	0*	0*	0*	0*	0*	0*	
40 BRICK PRODUCTION	1*	1*	2*	3*	5*	8*	11*	
41 TOTAL	11*	13*	17*	25*	15d*	237*	455*	
* 42 **REFINERY USE AND LOSS								
* 43 OTHER(BITUMEN, LURES, WAXES)	0*	0*	0*	0*	0*	0*	0*	
44 45	3*	4*	6*	10*	20*	35*	64*	
* 46 **TOTAL DOMESTIC (EXCL LINE 7)	70.0	99.5	132.0	200.7	529.3	868.9	1664.2	2535.2

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

METHANE PRODUCT DEMAND IN KHOASSAN
THOUSANDS OF CUBIC METERS

卷之三

PETROLEUM PRODUCT DEMAND IN SEAMAN
 THOUSANDS OF CUBIC METERS

** HISTORY **

** PROJECTION **

	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546	1992 2551	1997 2556
1 **LPG								
2 RESIDENTIAL AND COMMERCIAL	2*	2*	2*	3*	6*	10*	16*	25*
3 INDUSTRIAL	0*	0*	0*	0*	1*	1*	2*	3*
4 TOTAL	2*	2*	2*	3*	6*	11*	18*	28*
5 **AVIATION GASOLINE	0*	0*	0*	0*	0*	0*	0*	0*
6 **PETROCHEMICAL FEEDSTOCK (NOT INCLUDED IN TOTAL)	0*	0*	0*	0*	0*	0*	0*	0*
7 DOMESTIC DEMAND - LINE 46)								
10								
11 **MOTOR GASOLINE								
12 **KEROSENE								
13 JET FUEL (AVIATION)	7*	10*	12*	21*	36*	59*	97*	132*
14 ATM (COMMERCIAL)	0*	0*	0*	0*	0*	0*	0*	0*
15 JP4	0*	0*	0*	0*	0*	0*	0*	0*
16 TOTAL	0*	0*	0*	0*	0*	0*	0*	0*
17								
18 **RESIDENTIAL AND COMMERCIAL								
19 KEROSENE								
20 RESIDENTIAL AND COMMERCIAL								
21 **GAS OIL								
22 **GAS OIL								
23 RESIDENTIAL AND COMMERCIAL INDUSTRIAL	4*	4*	4*	8*	17*	29*	47*	71*
24 INDUSTRIAL	12*	15*	24*	52*	86*	136*	203*	263*
25 AGRICULTURE	6*	6*	9*	12*	14*	21*	26*	30*
26 HIGHWAY	17*	19*	30*	50*	78*	128*	200*	322*
27 RAILWAY	3*	3*	5*	8*	12*	20*	32*	53*
28								
29 ELECTRIC POWER (MOC)	5*	4*	0*	0*	0*	0*	0*	0*
30 INTERNAL MARINE DIESEL	0*	0*	0*	0*	0*	0*	0*	0*
31 TOTAL	41*	47*	51*	77*	138*	219*	354*	533*
32								
33 **FUEL OIL								
34 **FUEL OIL								
35 RESIDENTIAL AND COMMERCIAL INDUSTRIAL NEI	5*	4*	6*	9*	12*	18*	24*	24*
36 COPPER PRODUCTION	17*	21*	29*	61*	100*	162*	238*	238*
37 SUGAR PRODUCTION	0*	0*	0*	0*	0*	0*	0*	0*
38 CEMENT PRODUCTION	4*	5*	6*	8*	9*	10*	12*	12*
39 ELECTRIC POWER (MOC)	0*	0*	0*	0*	0*	0*	0*	0*
40 BRICK PRODUCTION	0*	0*	0*	0*	0*	0*	0*	0*
41 TOTAL	5*	5*	8*	14*	21*	30*	39*	39*
42 **REFINERY USE AND LOSS	24*	31*	35*	49*	92*	143*	215*	313*
43 **OTHER (BITUMEN, LURES, WAXES)	0*	0*	0*	0*	0*	0*	0*	0*
44								
45								
46 **TOTAL DOMESTIC (EXCL LINE 7)	102.3	120.5	136.2	204.7	361.3	570.6	904.8	1313.3

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS RUN HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

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PAGE 222-1
11/09/27

PETROLEUM PRODUCT DEMAND IN YAZ
THOUSANDS OF CUBIC METERS

** HISTORY **

	1972	1973	1974	1977	1982	1987	1992	1997
	2531	2532	2533	2536	2541	2546	2551	2556
1 * LPG								
2 RESIDENTIAL AND COMMERCIAL	26.	32.	39.	59.	97.	152.	222.	347.
3 INDUSTRIAL	3.	4.	4.	7.	11.	17.	26.	39.
4 TOTAL	29.	36.	43.	66.	108.	169.	256.	385.
5 * AVIATION GASOLINE								
6 * PETROCHEMICAL FEEDSTOCK	0.	0.	0.	1.	1.	1.	1.	1.
7 (NOT INCLUDED IN TOTAL)	0.	0.	0.	0.	0.	0.	0.	0.
8 DOMESTIC DEMAND - LINE 4-6)								
9								
10								
11								
12 * MOTOR GASOLINE								
13 108.	126.	146.	256.	422.	674.	956.	1277.	
14 * JET FUEL (AVIATION)								
15 ATK (COMMERCIAL)	3.	5.	9.	41.	66.	107.	158.	
16 JP4	3.	11.	17.	26.	39.	60.	96.	
17 TOTAL	5.	6.	16.	26.	68.	105.	167.	254.
18								
19 * KEROSENE								
20 RESIDENTIAL AND COMMERCIAL								
21 149.	153.	180.	258.	393.	573.	617.	1145.	
22 * GAS OIL								
23 RESIDENTIAL AND COMMERCIAL								
24 INDUSTRIAL	3.	5.	9.	16.	26.	38.	55.	
25 70.	92.	118.	209.	275.	336.	465.		
26 AGRICULTURE	80.	80.	117.	164.	236.	338.	444.	
27 HIGHWAY	148.	155.	244.	386.	596.	945.	1418.	
28 RAILWAY	0.	0.	0.	0.	0.	0.	0.	
29								
30 ELECTRIC POWER (MWE)								
31 INTERNAL MARINE DIESEL	27.	26.	0.	0.	0.	0.	0.	
32 TOTAL	277.	328.	359.	488.	760.	1136.	1656.	
33								
34 * FUEL OIL								
35 RESIDENTIAL AND COMMERCIAL								
36 INDUSTRIAL M&I	45.	55.	73.	103.	139.	185.	243.	
37 COPPER PRODUCTION	164.	117.	139.	245.	326.	354.	545.	
38 SUGAR PRODUCTION	0.	0.	0.	0.	0.	0.	0.	
39 CEMENT PRODUCTION	4.	29.	41.	41.	41.	53.	60.	
40 ELECTRIC POWER (MWE)	0.	21.	51.	108.	194.	297.	330.	
41 BRICK PRODUCTION	90.	26.	0.	69.	0.	0.	0.	
42 TOTAL	36.	36.	41.	47.	55.	77.	100.	
43 * REFINERY USE AND LOSS	359.	339.	284.	345.	613.	158.	1006.	1275.
44 * OTHER (BILUMEN, LUBES, WAXES)	0.	0.	0.	0.	773.	773.	773.	773.
45	36.	44.	52.	b6.	142.	322.	430.	
46 * TOTAL DOMESTIC (EXCL LINE 7)	963.2	1031.7	1082.1	1525.6	3308.5	4416.7	5956.6	7927.0

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 300

NATURAL GAS DEMAND IN TOTAL THAN
MILLIONS OF CUBIC METERSPAGE 300-1
11/09/77

	** HISTORY **		** PROJECTION **	
1	1972 2531	1973 2532	1974 2533	1977 2536
2				1982 2541
3 **RESIDENTIAL AND COMMERCIAL	11.	12.	20.	1987 2546
4 **ELECTRIC POWER (MOE)	300.	607.	1000.	1992 2551
5 **INDUSTRY				1997 2556
6 NON-ENERGY INTENSIVE				
7 ENERGY INTENSIVE	55.	129.	217.	14187. 17366.
8 PETROLEUM REFINING				
9 ABACAN	1011.	999.	996.	1158. 115.
10 OTHER REFINERIES	26.	38.	85.	1300. 639.
11 PETROCHEMICALS	1816.	1835.	1836.	2464. 4412.
12 IRON AND STEEL	65.	166.	177.	294. 4162.
13 COPPER	0.	0.	0.	0. 900.
14 CEMENT	88.	233.	230.	0. 0.
15 BRICK	14.	19.	19.	837. 358.
16 SUGAR	26.	43.	64.	161. 173.
17 SUB-TOTAL INDUSTRY	3103.	3462.	3624.	422. 667.
18 FIELD USE	2632.	2985.	3060.	14079. 25165.
19 **TOTAL INTERNAL CONSUMPTION	6046.	7066.	7704.	7554. 21834.
20 EXPORTS	6200.	8690.	9119.	10300. 23775.
21 FLARED GAS	23931.	24462.	27991.	36363. 23775.
22 GAS REPRESSURING	0.	0.	0.	-0. -0.
23 TOTAL PRODUCTION	38177.	40218.	44814.	
24				34720. 45880.
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS RUN HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 301

PAGE 301-1
11/09/77NATURAL GAS DEMAND IN MARKAZI
MILLIONS OF CUBIC METERS

	HISTORY **			** PROJECTION **		
	1972	1973	1974	1977	1982	1987
1	2531	2532	2533	2536	2541	2551
2	0.	0.	1.	146.	702.	1796.
3 **RESIDENTIAL AND COMMERCIAL	0.	0.	1.	146.	702.	1796.
4 **ELECTRIC POWER (MWE)	216.	469.	733.	1181.	1358.	1690.
5 **INDUSTRY	39.	93.	167.	400.	1057.	1963.
6 NON-ENERGY INTENSIVE	0.	0.	0.	0.	0.	0.
7 ENERGY INTENSIVE	26.	38.	85.	115.	470.	1580.
8 PETROLEUM REFINING	0.	0.	0.	0.	0.	0.
9	0.	0.	0.	0.	0.	0.
10	0.	0.	0.	0.	0.	0.
11	0.	0.	0.	0.	0.	0.
12	0.	0.	0.	0.	0.	0.
13	0.	0.	0.	0.	0.	0.
14	0.	0.	0.	0.	0.	0.
15	0.	0.	0.	0.	0.	0.
16	0.	0.	0.	0.	0.	0.
17	0.	0.	0.	0.	0.	0.
18	30.	138.	136.	141.	437.	866.
19	0.	0.	0.	105.	210.	367.
20	0.	0.	0.	8.	18.	513.
21	95.	269.	391.	769.	2193.	5624.
22	0.	0.	0.	0.	0.	0.
23 **FIELD USE	0.	0.	0.	0.	0.	0.
24	0.	0.	0.	0.	0.	0.
25 **TOTAL INTERNAL CONSUMPTION	311.	736.	1125.	2097.	4252.	8112.
						12901.
						15651.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

H E P O R T 302

PAGE 302-1
11/09/77NATURAL GAS DEMAND IN MAZANDARAN
MILLIONS OF CUBIC METERS

	HISTORY **			PROJECTION **		
	1972	1973	1974	1977	1982	1987
1	2531	2532	2533	2536	2541	2546
2						
3 *RESIDENTIAL AND COMMERCIAL				0.	0.	0.
4 *ELECTRIC POWER (MOE)				0.	1862.	2164.
5 *INDUSTRY						3801.
6 NON-ENERGY INTENSIVE				0.	44.	98.
7 ENERGY INTENSIVE					243.	472.
8 PETROLEUM REFINING				0.	0.	355.
9						710.
10						1153.
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23 *FIELD USE						
24 *TOTAL INTERNAL CONSUMPTION						
25						
				0.	1434.	2685.
						4907.
						4466.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.
 NOTE **MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 303

NATURAL GAS DEMAND IN GUILAN
MILLIONS OF CUBIC METERS

	** HISTORY **			** PROJECTION **		
	1972	1973	1974	1977	1982	1987
1	2531	2532	2533	2536	2541	2551
2						
3 *RESIDENTIAL AND COMMERCIAL				0.	0.	0.
4 *ELECTRIC POWER (MWE)				0.	11.	21.
6 *INDUSTRY						
7 *NON-ENERGY INTENSIVE				0.	15.	38.
8 ENERGY INTENSIVE						
9 PETROLEUM REFINING				0.	0.	0.
10						
*11						
12						
13						
14 PETROCHEMICALS				0.	0.	0.
15 IRON AND STEEL				0.	0.	0.
16 COPPER				0.	0.	0.
17 CEMENT				0.	23.	48.
18 BRICK				0.	1.	4.
19 SUGAR				0.	0.	7.
20						
*21 SUB-TOTAL INDUSTRY				0.	38.	377.
22						
*23 *FIELD USE				0.	9.	230.
24						
*25 *TOTAL INTERNAL CONSUMPTION				0.	11.	377.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

11/09/77

PAGE 303-1
11/09/77

LOW GAS GROWTH SCENARIO

REPORT 304

NATURAL GAS DEMAND IN AZERBAIJAN SHANCHI
MILLIONS OF CUBIC METERSPAGE 304-1
11/09/77

	HISTORY **			PROJECTION **		
	1972	1973	1974	1977	1982	1987
1	2531	2532	2533	2536	2541	2546
2						
3 **RESIDENTIAL AND COMMERCIAL				0.	0.	0.
4 **ELECTRIC POWER (MWE)				0.	0.	0.
6 **INDUSTRY				0.	0.	0.
7 **INDUSTRY				0.	0.	0.
8 NON-ENERGY INTENSIVE				0.	0.	0.
9 ENERGY INTENSIVE				0.	0.	0.
*10 PETROLEUM REFINING				0.	0.	0.
12				0.	0.	0.
13				0.	0.	0.
14 PETROCHEMICALS				0.	0.	0.
15 IRON AND STEEL				0.	0.	0.
16 COPPER				0.	0.	0.
17 CEMENT				0.	0.	0.
18 BRICK				0.	0.	0.
19 SUGAR				0.	0.	0.
20				0.	0.	0.
21 SUB-TOTAL INDUSTRY				0.	0.	0.
22				0.	0.	0.
*23 **FIELD USE				0.	0.	0.
24						300.
25 **TOTAL INTERNAL CONSUMPTION				0.	0.	0.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPLETED VALUES.
 0. 0. 0. 0. 0. 0. 300.

LOW GAS GROWTH SCENARIO

REPORT 306

NATURAL GAS DEMAND IN ZANJAN
MILLIONS OF CUBIC METERSPAGE 306-1
11/09/77

** HISTORY **

	1972	1973	1974	1977	1982	1987	1992	1997
1	2531	2532	2533	2536	2541	2546	2551	2556

2 **RESIDENTIAL AND COMMERCIAL
4
5 **ELECTRIC POWER (MOE)
6
7 **INDUSTRY

8 NON-ENERGY INTENSIVE
9
10 ENERGY INTENSIVE
11 PETROLEUM REFINING
12
13
14 PETROCHEMICALS
15 IRON AND STEEL
16 COPPER
17 CEMENT
18 BRICK
19 SUGAR
20
21 SUB-TOTAL INDUSTRY
22
23 **FIELD USE
24
25 **TOTAL INTERNAL CONSUMPTION

** PROJECTION **

	0.	0.	0.	0.	0.	0.	0.	0.
1	0.	0.	0.	0.	0.	0.	0.	0.

	0.	0.	0.	0.	0.	0.	0.	0.
1	0.	0.	0.	0.	0.	0.	0.	0.

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 308

NATURAL GAS DEMAND IN JAMAICA
MILLIONS OF CUBIC METERS

** HISTORY **

	1972	1973	1974	1977	1982	1987	1992	1997
1	2531	2532	2533	2536	2541	2546	2551	2556

2 RESIDENTIAL AND COMMERCIAL

3 ELECTRIC POWER (MGES)

4 NON-ENERGY INTENSIVE

5 ENERGY INTENSIVE

6 PETROLEUM REFINING

7 PETROCHEMICALS

8 IRON AND STEEL

9 COPPER

10 CEMENT

11 BRICK

12 SUGAR

13 SUB-TOTAL INDUSTRY

14 FIELD USE

15 TOTAL INTERNAL CONSUMPTION

	** PROJECTION **
1	0.
2	0.
3	0.
4	0.
5	0.
6	0.
7	0.
8	0.
9	0.
10	0.
11	0.
12	0.
13	0.
14	0.
15	0.
16	0.
17	0.
18	0.
19	0.
20	0.
21	0.
22	0.
23	0.
24	0.
25	0.

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

K E P U R I 304

NATURAL GAS DEMAND IN KEMAHANSTRAN
MILLIONS OF CUBIC METERSPAGE 309-1
11/09/77

	HISTORY **			PROJECTION **		
	1972	1973	1974	1977	1982	1992
1	2531	2532	2533	2536	2541	2551
2	**RESIDENTIAL AND COMMERCIAL			0.	0.	0.
3				0.	0.	0.
4	**ELECTRIC POWER (MOE)			0.	0.	0.
5				0.	0.	0.
6	**INDUSTRY			0.	0.	0.
7				0.	0.	0.
8	NON-ENERGY INTENSIVE			0.	0.	0.
9				0.	0.	0.
10	ENERGY INTENSIVE			0.	0.	0.
11	PETROLEUM REFINING			0.	0.	0.
12				0.	0.	0.
13				0.	0.	0.
14	PETROCHEMICALS			0.	0.	0.
15	IRON AND STEEL			0.	0.	0.
16	COPPER			0.	0.	0.
17	CEMENT			0.	0.	0.
18	BRICK			0.	0.	0.
19	SUGAR			0.	0.	0.
20				0.	0.	0.
21	SUB-TOTAL INDUSTRY			0.	0.	0.
22				0.	0.	0.
23	**FIELD USE			0.	0.	0.
24	**TOTAL INTERNAL CONSUMPTION			0.	0.	0.
25				0.	0.	0.

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS RUN HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 312

PAGE 312-1
11/09/77NATURAL GAS DEMAND IN KHLZEZTAN
MILLIONS OF CUHIC METERS

	** HISTORY **			** PROJECTION **		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1						
2	**RESIDENTIAL AND COMMERCIAL	1.	2.	4.	16.	25.
4	**ELECTRIC POWER (NOE)	0.	0.	0.	75.	28.
6	**INDUSTRY					
7	NON-ENERGY INTENSIVE	0.	1.	2.	55.	55.
8	ENERGY INTENSIVE					
9	PETROLEUM REFINING	1011.	999.	996.	1158.	1300.
10						
11	PETROCHEMICALS	766.	766.	766.	1380.	2116.
12	IRON AND STEEL	13.	21.	19.	0.	1687.
13	COPPER	0.	0.	0.	0.	2025.
14	CEMENT	0.	0.	0.	38.	0.
15	BRICK	14.	19.	17.	103.	176.
16	SUGAR	0.	0.	0.	11.	50.
17					41.	153.
18	SUB-TOTAL INDUSTRY	1804.	1806.	1800.	2682.	6006.
22	**FIELD USE					
23		2632.	2985.	3060.	7915.	9579.
24						
25	**TOTAL INTERNAL CONSUMPTION	4437.	4793.	4864.	2773.	6058.
						BU00.
						1160.
						13939.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

NATURAL GAS DEMAND IN CHAMAR-MCHAL BARTHAPAI
MILLIONS OF CUBIC METERS

** HISTORY **

** PROJECTION **

	1972	1973	1974	1977	1982	1987	1992	1997
1	2531	2532	2533	2536	2541	2546	2551	2556
2								
3 **RESIDENTIAL AND COMMERCIAL				0.	0.	0.	0.	0.
4								
5 **ELECTRIC POWER (MWE)				0.	0.	0.	0.	0.
6								
7 **INDUSTRY								
8								
9								
10								
11								
12								
13								
14								
15					0.	0.	0.	0.
16					0.	0.	0.	0.
17					0.	0.	0.	0.
18					0.	0.	0.	0.
19					0.	1.	3.	5.
20					0.	2.	6.	10.
21					0.	6.	6.	10.
22								
23 **FIELD USE								
24								
25 **TOTAL INTERNAL CONSUMPTION				0.	6.	60.	36.	55.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 314

NATURAL GAS DEMAND IN BOYER-AMAD AND KÜRKILÜYEN
MILLIONS OF CUBIC METERSPAGE 314-1
11/09/77

	HISTORY *			PROJECTION **		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1						
2						
3	**RESIDENTIAL AND COMMERCIAL			0*	0*	0*
4						
5	**ELECTRIC POWER (MEGE)			0*	0*	0*
6						
7	**INDUSTRY			0*	0*	0*
8	NON-ENERGY INTENSIVE					
9				0*	9*	46*
10	ENERGY INTENSIVE					
*11	PETROLEUM REFINING					
12				0*	0*	0*
13						
14	PETROCHEMICALS			0*	0*	0*
15	IRON AND STEEL			0*	0*	0*
16	COPPER			0*	0*	0*
17	CEMENT			0*	0*	0*
18	BRICK			0*	0*	0*
19	SUGAR			0*	0*	0*
20				0*	1*	1*
21	SUB-TOTAL INDUSTRY			0*	1*	4*
22						
*23	**FIELD USE			0*	10*	40*
24						
25	TOTAL INTERNAL CONSUMPTION			0*	10*	40*

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.
 ** MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

0* 10* 40* 151* 304*

0* 151* 304*

NATURAL GAS DEMAND IN BUSHELS
MILLIONS OF CUBIC METERS

	HISTORY **				PROJECTION **		
	1972	1973	1974	1977	1982	1987	1992
1	2531	2532	2533	2536	2541	2546	2551
2	**RESIDENTIAL AND COMMERCIAL	0.	0.	0.	0.	0.	0.
4	**ELECTRIC POWER (MOE)	0.	0.	0.	16.	32.	29.
6	**INDUSTRY						
7	NON-ENERGY INTENSIVE	0.	0.	0.	0.	11.	61.
9	ENERGY INTENSIVE						
10	PETROLEUM REFINING	0.	0.	0.	0.	0.	0.
11							
12	PETROCHEMICALS	962.	962.	962.	962.	962.	962.
13	IRON AND STEEL	0.	0.	0.	0.	0.	0.
14	COPPER	0.	0.	0.	0.	0.	0.
15	CEMENT	0.	0.	0.	0.	0.	0.
16	BRICK	0.	0.	0.	0.	0.	0.
17	SUGAR	0.	0.	0.	0.	1.	2.
18							
20	SUB-TOTAL INDUSTRY	962.	962.	962.	962.	974.	1025.
21							
22	**FIELD USE	0.	0.	0.	0.	0.	0.
24							
25	TOTAL INTERNAL CONSUMPTION	962.	962.	962.	990.	1057.	3157.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 316

NATURAL GAS DEMAND IN FARs
MILLIONS OF CUBIC METERS

	** HISTORY **			** PROJECTION **		
	1972	1973	1974	1977	1982	1987
1	2531	2532	2533	2536	2541	2551
2						
3 **RESIDENTIAL AND COMMERCIAL	10*	10*	14*	38*	85*	162*
4 **ELECTRIC POWER (MGE)	84*	114*	123*	84*	32*	62*
6 **INDUSTRY						
7 **INDUSTRY	1b*	32*	29*	45*	220*	365*
8 NON-ENERGY INTENSIVE						
9 ENERGY INTENSIVE	0*	0*	0*	0*	0*	0*
*11 PETROLEUM REFINING						
12						
13 PETROCHEMICALS	68*	107*	108*	122*	935*	435*
14 IRON AND STEEL	0*	0*	0*	0*	0*	0*
15 COPPER	0*	0*	0*	0*	0*	0*
16 CEMENT	58*	56*	51*	63*	111*	126*
17 BRICK	0*	0*	2*	15*	25*	37*
18 SUGAR	26*	28*	24*	41*	68*	51*
20						
21 SUB-TOTAL INDUSTRY	190*	223*	214*	326*	1398*	1576*
22 **FIELD USE						
23 **FIELD USE	0*	0*	0*	0*	0*	0*
24 **TOTAL INTERNAL CONSUMPTION	284*	347*	351*	448*	1475*	1800*
25 **TOTAL INTERNAL CONSUMPTION						

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

11/09/77

PAGE 316-1
11/09/77

LOW GAS GROWTH SCENARIO

REPORT 317

NATURAL GAS DEMAND IN SAHILI-JONOOE
MILLIONS OF CUBIC METERS

	♦♦ HISTORY ♦♦			♦♦ PROJECTION ♦♦		
	1972	1973	1974	1977	1982	1987
1	2531	2532	2533	2536	2541	2556
2						
3 ♦RESIDENTIAL AND COMMERCIAL				0.	0.	0.
4 ♦ELECTRIC POWER (HOE)				0.	1367.	1607.
5 ♦INDUSTRY				0.	31.	213.
6 ♦NON-ENERGY INTENSIVE				0.	0.	0.
7 ♦ENERGY INTENSIVE				0.	0.	0.
8 PETROLEUM REFINING				0.	0.	0.
9						
10						
11						
12						
13						
14 PETROCHEMICALS				0.	0.	0.
15 IRON AND STEEL				0.	2025.	4050.
16 COPPER				0.	0.	0.
17 CEMENT				0.	0.	0.
18 BRICK				0.	41.	105.
19 SUGAR				0.	1.	5.
20				0.	0.	0.
21 SUB-TOTAL INDUSTRY				0.	0.	0.
22 FIELD USE				0.	2057.	4307.
23 ♦FIELD USE				0.	4764.	7358.
24 TOTAL INTERNAL CONSUMPTION				0.	3424.	5514.
25 ♦TOTAL INTERNAL CONSUMPTION				0.	6567.	9295.

NOTE ♦MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 210

NATURAL GAS DEMAND IN KERMAN
MILLIONS OF CUBIC METERSPAGE 318-1
11/09/77

	HISTORY **				PROJECTION **			
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546	1992 2551	1997 2556
1								
2	RESIDENTIAL AND COMMERCIAL							
3				0.	0.	0.	0.	0.
4	ELECTRIC POWER (HOE)			0.	0.	0.	0.	0.
5								
6	INDUSTRY							
7	NON-ENERGY INTENSIVE							
8				0.	0.	0.	0.	0.
9	ENERGY INTENSIVE							
10	PETROLEUM REFINING			0.	0.	0.	0.	0.
11								
12								
13								
14	PETROCHEMICALS							
15	IRON AND STEEL			0.	0.	0.	0.	0.
16	COPPER			0.	0.	0.	0.	0.
17	CEMENT			0.	0.	0.	0.	0.
18	BATIK			0.	0.	0.	0.	0.
19	SUGAR			0.	0.	0.	0.	0.
20				0.	0.	0.	0.	0.
21	SUB-TOTAL INDUSTRY				0.	0.	0.	0.
22								
23	FIELD USE							
24								
25	TOTAL INTERNAL CONSUMPTION			0.	0.	0.	0.	0.

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPLETED VALUES.

NATURAL GAS DEMAND IN KHCHASSAN
MILLIONS OF CUBIC METERS

	HISTORY **			PROJECTION **		
	1972 2531	1973 2532	1974 2533	1977 2536	1982 2541	1987 2546
1						
2	**RESIDENTIAL AND COMMERCIAL	0.	0.	126.	263.	490.
4	**ELECTRIC POWER (MOE)	0.	0.	21.	259.	676.
6	**INDUSTRY					
7	NON-ENERGY INTENSIVE	0.	0.	0.	51.	148.
9	ENERGY INTENSIVE					
10	PETROLEUM REFINING	0.	0.	0.	0.	0.
12						
13	PETROCHEMICALS	0.	0.	0.	0.	0.
14	IRON AND STEEL	0.	0.	0.	0.	0.
15	COPPER	0.	0.	0.	0.	0.
16	CEMENT	0.	0.	0.	0.	0.
17	BRICK	1.	1.	20.	37.	410.
18	SUGAR	0.	0.	13.	36.	64.
19				65.	139.	193.
20	SUB-TOTAL INDUSTRY	0.	0.	2.	149.	360.
21						
22	**FIELD USE			0.	0.	0.
24						
25	**TOTAL INTERNAL CONSUMPTION	23.	534.	1301.	2551.	4232.

NOTE ** MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 323

NATURAL GAS DEMAND IN ESFAHAN
MILLIONS OF CUBIC METERS

	** HISTORY **		** PROJECTION **	
	1972 2531	1973 2532	1974 2533	1977 2536
1				
2				
3 *RESIDENTIAL AND COMMERCIAL	0.	0.	1.	19.
4 *ELECTRIC POWER (MWE)	0.	24.	123.	307.
5 INDUSTRY				
6 NON-ENERGY INTENSIVE	0.	1.	16.	64.
7 ENERGY INTENSIVE				
8 PETROLEUM REFINING	0.	0.	0.	0.
9				
10 PETROCHEMICALS	0.	0.	0.	0.
11 IRON AND STEEL	52.	145.	158.	244.
12 COPPER	0.	0.	0.	0.
13 CEMENT	0.	38.	39.	21.
14 BRICK	0.	0.	0.	17.
15 SUGAR	0.	15.	39.	47.
16 SUB-TOTAL INDUSTRY	52.	199.	254.	414.
17				
18 FIELD USE	*23	0.	0.	0.
19				
20				
21				
22				
23				
24				
25 TOTAL INTERNAL CONSUMPTION	52.	223.	378.	740.

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT #00

SOLID FUEL DEMAND IN TOTAL IRAN
TRILLIONS OF BTUSPAGE 400-1
11/09/77

	HISTORY #	PROJECTION #	PROJECTION #
1	1972 2531	1973 2532	1974 2533
2 *RESIDENTIAL AND COMMERCIAL			
3	21.3*	20.52	19.73
4 *INDUSTRIAL			
5			17.69
6 BRICK PRODUCTION	9.06	9.85	10.64
7 IRON AND STEEL	5.36	14.75	16.26
8 TOTAL	14.42	24.60	26.95
9			48.26
10			73.66
11			57.85
12			61.66
*13 *ELECTRIC POWER (MWE)	0.00	0.00	0.00
14			2.63
15 *TOTAL DEMAND	37.54	47.11	48.87

NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

	HISTORY #	PROJECTION #	PROJECTION #
1	1972 2531	1973 2532	1974 2533
2 *RESIDENTIAL AND COMMERCIAL			
3	21.3*	20.52	19.73
4 *INDUSTRIAL			
5			17.69
6 BRICK PRODUCTION	9.06	9.85	10.64
7 IRON AND STEEL	5.36	14.75	16.26
8 TOTAL	14.42	24.60	26.95
9			48.26
10			73.66
11			57.85
12			61.66
*13 *ELECTRIC POWER (MWE)	0.00	0.00	0.00
14			2.63
15 *TOTAL DEMAND	37.54	47.11	48.87

LOW GAS GROWTH SCENARIO

REPORT 500

ELECTRICITY CONSUMPTION IN TOTAL IRAN
MILLIONS OF KILOMETERS-HOURSPAGE 500-1
11/09/77

2 *MINISTRY OF ENERGY

	** HISTORY **		** PROJECTION **	
	1970	1972	1974	1977
2529	2531	2533	2536	2541
1970	1972	1974	1977	1982
				1987
				1992
				1997

3 RESIDENTIAL

4 COMMERCIAL

5 INDUSTRIAL

6 AGRICULTURAL

7 STREET LIGHTING

8 OTHER (MOE)

9 NON PROFIT ORGANIZATIONS

10 TOTAL

11 TOTAL

12 *PRIVATE-PUBLIC SVC AND INDUS

13 *RESIDENTIAL+COMM'L AND OTHER

14 TOTAL

15 RESIDENTIAL

16 COMMERCIAL

17 INDUSTRIAL

18 OTHER (INDUSTRIAL)

19 TOTAL

20 TOTAL

21 TOTAL

22 *RESIDENTIAL+COMM'L AND OTHER

23 TOTAL

24 *INDUSTRIAL

25 NON-ENERGY INTENSIVE (NEI)

26 ALUMINUM

27 STEEL

28 COPPER

29 PETROCHEMICAL

30 PETROLEUM REFINING

31 TOTAL

32 TOTAL

33 TOTAL

34 *GRAND TOTAL

35 *GRAND TOTAL

36 AVG GROWTH INTERVAL (PCT/YR)

37 R.C AND O

38 INDUSTRIAL NEI

39 TOTAL MCE

40 GRAND TOTAL

41 FORECASTING PARAMETERS

42 (R,C AND O) kWh/capita

43 (NEI) kWh/employee

44 (TOTAL) kWh/capita

45 75.9 100.8 130.1 214.6 401.7 673.9 1137.8 1731.4

46 1153.7 1419.0 1695.5 2480.2 3751.1 5252.9 7582.0 10281.6

47 (TOTAL) kWh/capita

48 204.7 270.9 364.3 565.1 1210.4 1862.8 2687.1 3769.3

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 501

ELECTRICITY CONSUMPTION IN MARKAZI
MILLIONS OF KILOWATT-HOURSPAGE 501-1
11/09/77

	** HISTORY **		** PROJECTION **	
	2529 1970	2531 1972	2533 1974	2536 1977
1				
2 *ADMINISTRY OF ENERGY				
3				
4 RESIDENTIAL	454.67	681.28	776.51	
5 COMMERCIAL	515.20	718.34	920.34	
6 INDUSTRIAL	471.66	107.24	233.62	
7 AGRICULTURAL	38.23	70.09	141.26	
8 STREET LIGHTING	141.40	177.54	237.13	
9 NON-PROFIT ORGANIZATIONS	27.42	27.13	29.14	
10 OTHER (MOE)	.48	1.34	2.70	
11 TOTAL	1649.05	2722.96	4640.70	
12 *PRIVATE-PUBLIC SVC AND INDUS				
13				
14 RESIDENTIAL	13.67	8.99	5.90	
15 COMMERCIAL	1.04	.87	.78	
16 INDUSTRIAL	278.1	303.36	323.82	
17 OTHER (INDSTRIAL)	96.59	104.25	111.40	
18 TOTAL	389.31	417.47	441.90	
19				
20				
21 *RESIDENTIAL, COMMERCIAL AND OTHER				
22				
23 *INDUSTRIAL				
24				
25 NON-ENERGY INTENSIVE (NEI)				
26 ALUMINUM	778.66	1184.85	1910.84	
27 STEEL	0.00	200.00	945.00	
28 COPPER	0.00	0.00	0.00	
29 PETROCHEMICAL	0.00	0.00	0.00	
*30 PETROLEUM REFINING	68.00	70.00	113.00	
31 TOTAL	846.86	1454.85	2968.84	
32				
33				
34				
35 *GRAND TOTAL	2038.37	3140.43	5082.60	
36				
37 ** AVG GROWTH/INTERVAL (PCT/YR)				
38 R, C AND O				
39 INDUSTRIAL NEI	15.8	20.1	14.1	
40 TOTAL MCE	25.5	15.0	13.7	
41 GRAND TOTAL	28.5	16.7	14.9	
42				
43 *FORECASTING PARAMETERS				
44				
45 (R, C AND O) KWH/CAPITA	197.3	253.7	294.0	
46				
47 (NEI) KWH/EMPLOYEE	1159.0	1579.8	2261.3	
48				
49 (TOTAL) KWH/CAPITA	337.5	472.6	707.0	

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

2531.4

12248.6

4335.0

3015.8

4335.0

10.0

10.4

7.6

12.7

1.3

10.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

1.0

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1.0

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1.0

LOW GAS GROWTH SCENARIO

REPORT 504

ELECTRICITY CONSUMPTION IN MAZANDARAN
MILLIONS OF KILOWATT-HOURSPAGE 502-1
11/09/77

	** HISTORY **			** PROJECTION **		
	1970	1972	1974	1977	1982	1987
1						
2	**MINISTRY OF ENERGY					
3						
4	RESIDENTIAL	23.04	37.58	59.75		
5	COMMERCIAL	26.76	46.42	79.42		
6	INDUSTRIAL	64.15	93.99	105.22		
7	AGRICULTURAL					
8	STREET LIGHTING	11.50	14.33	17.75		
9	NON-PROFIT ORGANIZATIONS	1.43	2.16	2.61		
10	OTHER (M.O.E)	.62	2.03	5.95		
11	TOTAL	127.95	199.06	276.98		
12	**PRIVATE-PUBLIC SVC AND INDUS					
13						
14	RESIDENTIAL	.89	2.14	2.97		
15	COMMERCIAL	6.80	5.74	5.14		
16	INDUSTRIAL	14.69	16.00	17.08		
17	OTHER (INDUSTRIAL)	7.29	7.94	8.49		
18	TOTAL	29.67	31.82	33.68		
19						
20						
21						
22	**RESIDENTIAL, COMM'L AND OTHER					
23						
24	**INDUSTRIAL					
25						
26	NON-ENERGY INTENSIVE (NEI)	86.13	117.93	130.79		
27	ALUMINUM	0.00	0.00	0.00		
28	STEEL	0.00	0.00	0.00		
29	COPPER	0.00	0.00	0.00		
30	PETROCHEMICAL	0.00	0.00	0.00		
31	PETROLEUM REFINING	0.00	0.00	0.00		
32		0.00	0.00	0.00		
33	TOTAL	86.13	117.93	130.79		
34	**GRAND TOTAL	157.62	230.88	310.66		
35						
36						
37	**AVG GROWTH/INTERVAL (PCT/YR)					
38	R.C AND O					
39	INDUSTRIAL NEI					
40	TOTAL NEI	24.5	23.4	14.8		
41	GRAND TOTAL	11.5	15.8	20.7		
42						
43	**FORECASTING PARAMETERS					
44						
45	(R+C AND O) KW/H/CAPITA	34.8	52.2	79.0		
46						
47	(NEI) KW/H/EMPLOYEE	826.2	974.6	961.7		
48	(TOTAL) KW/H/CAPITA	76.8	106.7	136.4		
49						
NOTE	* MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.					

LOW GAS GROWTH SCENARIO

REPORT 503

ELECTRICITY CONSUMPTION IN GUILAN
MILLIONS OF KILOWATT-HOURSPAGE 503-1
11/09/77

	** HISTORY **		** PROJECTION **	
	2529 1970	2531 1972	2533 1974	2536 1977
1				
2 MINISTRY OF ENERGY				
3				
4 RESIDENTIAL	17.19	26.64	38.86	
5 COMMERCIAL	21.29	28.23	31.97	
6 INDUSTRIAL	17.06	65.57	100.84	
7 AGRICULTURAL	*.01	*14	*06	
8 STREET LIGHTING	5.46	7.52	14.70	
9 NON-PROFIT ORGANIZATIONS	*.43	*.82	1.*34	
10 OTHER (MOE)	0.00	0.00	1.*24	
11 TOTAL	61.46	128.92	189.01	
12				
13 PRIVATE-PUBLIC SVC AND INDUS				
14				
15 RESIDENTIAL	1.30	1.21	1.17	
16 COMMERCIAL	*18	*15	*13	
17 INDUSTRIAL	9.77	10.64	11.36	
18 OTHER (INDUSTRIAL)	3.66	3.99	4.26	
19 TOTAL	14.91	15.99	16.92	
20				
21				
22 RESIDENTIAL, COMM'L AND OTHER	45.88	64.71	89.47	
23				
24 INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	30.51	80.20	116.46	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
*30 PETROCHEMICAL	0.00	0.00	0.00	
*31 PETROLEUM REFINING	0.00	0.00	0.00	
32 TOTAL	0.00	0.00	0.00	
33 TOTAL	30.51	80.20	116.46	
34				
35 GRAND TOTAL	76.35	144.91	215.93	
36				
37 AVG GROWTH/INTERVAL (PCT/YR)				
38 RIC AND O				
39 INDUSTRIAL NEI				
40 TOTAL MCE				
41 GRAND TOTAL				
42				
43 FORECASTING PARAMETERS				
44				
45 (RIC AND O) KWH/CAPITA	31.3	41.5	54.2	
46				
47 (NEI) KWH/EMPLOYEE	358.5	786.3	1012.7	
48 (TOTAL) KWH/CAPITA	52.1	93.0	124.7	
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTER VALUES.

LOW GAS GROWTH SCENARIO

REPORT 504

ELECTRICITY CONSUMPTION IN AZAKHAYJAN SHANGHI
MILLIONS OF KILOWATT-HOURSPAGE 504-1
11/09/77

	HISTORY		PROJECTION	
	1970	1972	1977	1982
1				
2 *MINISTRY OF ENERGY				
3				
4 RESIDENTIAL	24.60	37.42	56.84	
5 COMMERCIAL	22.69	42.64	60.38	
6 INDUSTRIAL	14.51	45.77	40.55	
7 AGRICULTURAL	0.00	0.02	0.11	
8 STREET LIGHTING	0.31	12.29	16.23	
9 NON-PROFIT ORGANIZATIONS	1.15	1.93	2.13	
10 OTHER (MOE)	0.00	0.00	1.02	
11 TOTAL	70.66	140.07	199.26	
12 *PRIVATE-PUBLIC SVC AND INDUS				
13				
14 RESIDENTIAL	7.38	8.17	8.80	
15 COMMERCIAL	1.31	1.10	0.98	
16 INDUSTRIAL	*24	*26	*27	
17 OTHER (INDUSTRIAL)	2.90	3.16	3.38	
18 TOTAL	11.83	12.69	13.43	
19				
20				
21 *RESIDENTIAL, COMM. AND OTHER				
22				
23 TOTAL	64.84	103.57	168.49	
24 *INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	17.65	49.14	44.20	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
*30 PETROCHEMICAL	0.00	0.00	0.00	
*31 PETROLEUM REFINING	0.00	0.00	0.00	
32 TOTAL	0.00	0.00	0.00	
33				
34 *GRAND TOTAL	17.65	49.19	44.20	
35 *GRAND TOTAL	82.49	152.76	212.69	
36				
37 *AVG GROWTH/INTERVAL (PCT/YR)				
38 R/C AND O				
39 INDUSTRIAL NEI				
40 TOTAL MCE	25.4	27.9	19.7	
41 GRAND TOTAL	50.5	56.2	20.9	
42				
43 *FORECASTING PARAMETERS				
44				
45 (R/C AND O) kWh/capita	21.4	33.1	50.9	
46				
47 (NEI) kWh/employee	67.9	168.5	134.8	
48 (TOTAL) kWh/capita	27.4	48.8	64.3	
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

ELECTRICITY CONSUMPTION IN AZARBAYJAN GHARBI
MILLIONS OF KILOWATT-HOURS

PAGE 505-1
11/09/77

	** HISTORY **		** PROJECTION **	
	1970	1972	1977	1982
1				
2 **MINISTRY OF ENERGY				
3				
4 RESIDENTIAL	8.03	11.34	20.83	
5 COMMERCIAL	10.84	14.39	23.96	
6 INDUSTRIAL	1.90	1.33	21.62	
7 AGRICULTURAL	0.00	0.00	0.00	
8 STREET LIGHTING	3.03	4.14	5.78	
9 NON-PROFIT ORGANIZATIONS	*.52	*.94	1.88	
10 OTHER (POE)	0.00	0.00	*.10	
11 TOTAL	23.32	32.14	74.37	
12				
13 **PRIVATE-PUBLIC SVC AND INDUS				
14				
15 RESIDENTIAL	4.75	4.74	5.00	
16 COMMERCIAL	1.93	1.63	1.46	
17 INDUSTRIAL	20.28	22.41	23.92	
18 OTHER (INDUSTRIAL)	8.75	9.58	10.33	
19 TOTAL	35.79	38.36	40.61	
20				
21 **RESIDENTIAL-COMMCL AND OTHER				
22				
23				
24 **INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	29.97	33.32	55.97	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
30 PETROCHEMICAL	0.00	0.00	0.00	
*31 PETROLEUM REFINING	0.00	0.00	0.00	
32 TOTAL	0.00	0.00	0.00	
33				
34 **GRAND TOTAL				
35				
36				
37 **AVERAGE GROWTH/INTERVAL (PCT/YR)				
38 R+C AND O				
39 INDUSTRIAL NEI				
40 TOTAL MCE	19.6	30.5	20.5	
41 GRAND TOTAL	15.8	18.7	21.5	
42				
43 **FORECASTING PARAMETERS				
44				
45 (R+C AND O) kWh/capita	24.4	29.4	44.2	
46				
47 (NEI) kWh/EMPLOYEE	681.1	774.9	1142.2	
48				
49 (TOTAL) kWh/capita	49.1	55.7	86.1	
NOTE	*MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTER VALUES.			

LOW GAS GROWTH SCENARIO

HECORT SVC

ELECTRICITY CONSUMPTION IN ZANJAN
MILLIONS OF KILOWATT-HOURSPAGE 506-1
11/09/77

	HISTORY		PROJECTION	
	1970	1972	1974	1977
1	2529	2531	2533	2536
2	MINISTRY OF ENERGY			
3	RESIDENTIAL	2.35	2.82	3.81
4	COMMERCIAL	1.11	3.42	7.22
5	INDUSTRIAL	.57	1.81	1.44
6	AGRICULTURAL	0.00	.07	.28
7	STREET LIGHTING	1.16	1.09	1.19
8	NON-PROFIT ORGANIZATIONS	1.04	.78	.47
9	OTHER (M&E)	0.00	0.00	0.00
10	TOTAL	6.23	9.99	14.41
11				
12	PRIVATE-PUBLIC SVC AND INDUS			
13				
14	RESIDENTIAL	*12	*13	*13
15	COMMERCIAL	*0.1	*0.1	*0.1
16	INDUSTRIAL	0.00	0.00	0.00
17	OTHER (INDUSTRIAL)	*0.4	*0.4	*0.5
18	TOTAL	*17	*18	*19
19				
20				
21	RESIDENTIAL, COMM+L AND OTHER			
22				
23	NON-INDUSTRIAL	5.79	8.32	13.11
24	INDUSTRIAL			
25	NON-ENERGY INTENSIVE (NEI)	*.61	1.85	1.49
26	ALUMINUM	0.00	0.00	0.00
27	STEEL	0.00	0.00	0.00
28	COPPER	0.00	0.00	0.00
29	PETROCHEMICAL	0.00	0.00	0.00
30	PETROLEUM REFINING	0.00	0.00	0.00
31	TOTAL NEI	0.00	0.00	0.00
32	TOTAL	0.00	0.00	0.00
33				
34	GRAND TOTAL	*0.1	1.85	1.49
35				
36	GRAND TOTAL	6.40	10.17	14.60
37	Avg Growth/Interval (PCT/YR)			
38	R+C AND O			
39	INDUSTRIAL NEI	64.9	31.1	23.1
40	TOTAL NEI	41.8	19.9	21.2
41	GRAND TOTAL	46.2	30.2	23.1
42		44.6	30.1	22.9
43	FORECASTING PARAMETERS			
44				
45	(R+C AND O) KWH/CAPITA	11.5	15.9	24.0
46				
47	(NEI) KWH/EMPLOYEE	17.5	33.6	25.3
48	(TOTAL) KWH/CAPITA	12.7	19.4	26.7
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTER VALUES.

LOW GAS GROWTH SCENARIO

REPORT 507

ELECTRICITY CONSUMPTION IN KONGUESTAN
MILLIONS OF KILOWATT-HOURS

	* HISTORY **		** PROJECTION **		
	2529 1970	2531 1972	2536 1974	2541 1982	2546 1987
1					
2 *MINISTRY OF ENERGY					
3					
4 RESIDENTIAL	3.00	4.38	6.77		
5 COMMERCIAL	2.13	4.09	8.44		
6 INDUSTRIAL	*02	0.00	0.00		
7 AGRICULTURAL	0.00	0.00	0.00		
8 STREET LIGHTING	*90	*94	1.46		
9 NON-PROFIT ORGANIZATIONS	*01	*04	*06		
10 OTHER (MOE)	0.00	0.00	0.00		
11 TOTAL	6.15	9.45	16.73		
12 *PRIVATE-PUBLIC SVC AND INDUS					
13					
14 RESIDENTIAL	12.36	13.63	14.64		
15 COMMERCIAL	1.95	1.67	1.50		
16 INDUSTRIAL	0.00	0.00	0.00		
17 OTHER (INDUSTRIAL)	4.68	5.09	5.44		
18 TOTAL	19.02	20.39	21.58		
19					
20					
21					
22 *RESIDENTIAL, COMMERCIAL AND OTHER					
23					
24 *INDUSTRIAL					
25					
26 NON-ENERGY INTENSIVE (NEI)	4.70	5.09	5.44	5.01	5.47
27 ALUMINUM	0.00	0.00	0.00	0.00	0.00
28 STEEL	0.00	0.00	0.00	0.00	0.00
29 COPPER	0.00	0.00	0.00	0.00	0.00
*30 PETROCHEMICAL	0.00	0.00	0.00	0.00	0.00
*31 PETROLEUM REFINING	0.00	0.00	0.00	0.00	0.00
32 TOTAL	0.00	0.00	0.00	0.00	0.00
33					
34 TOTAL	4.70	5.09	5.44	5.01	5.47
35 *GRAND TOTAL					
36					
37 *AVG GROWTH/INTERVAL (PCT/YR)					
38 R, C AND O					
39 INDUSTRIAL NEI	12.2	12.7	13.2	13.7	14.2
40 TOTAL MOE	4.7	4.7	4.7	4.7	4.7
41 GRAND TOTAL	27.4	40.9	30.5	25.9	21.1
42					
43 *FORECASTING PARAMETERS					
44					
45 (R, C AND O) KWH/CAPITA	29.2	33.3	41.7	83.3	198.5
46 (NEI) KWH/EMPLOYEE	261.1	299.4	286.3	437.0	793.8
48 (TOTAL) KWH/CAPITA	35.9	40.1	48.6	93.8	227.3

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

PAGE 507-1
11/09/77

2556
1992

1385.1
1388.1

3488.1
3492.4

975.5
1642.4

LOW GAS GROWTH SCENARIO

HEP 0401 506

PAGE 506-1
11/09/77ELECTRICITY CONSUMPTION IN HAWAIIAN
MILLIONS OF KILOWATT-MOEHRS

	*4 HISTORY **		** PROJECTION **	
	1970	1972	1974	1977
1				
2	MINISTRY OF ENERGY			
3				
4	RESIDENTIAL	7.26	11.45	18.15
5	COMMERCIAL	5.93	14.65	36.33
6	INDUSTRIAL	*.56	*.73	3.23
7	AGRICULTURAL	0.00	.57	1.23
8	STREET LIGHTING	2.73	4.29	6.31
9	NON-PROFIT ORGANIZATIONS	*.04	*.07	*.18
10	OTHER (MOE)	*.31	1.47	3.51
11	TOTAL	16.83	33.23	62.74
12				
13	PRIVATE-PUBLIC SVC AND INDUS			
14				
15	RESIDENTIAL	*.59	*.58	*.58
16	COMMERCIAL	*.08	*.06	*.06
17	INDUSTRIAL	2.98	3.25	3.46
18	OTHER (INDUSTRIAL)	1.18	1.29	1.38
19	TOTAL	4.83	5.18	5.48
20				
21				
22	**RESIDENTIAL, COMM'L AND OTHER	16.94	33.14	60.15
23				
24	**INDUSTRIAL			
25				
26	NON-ENERGY INTENSIVE (NEI)	4.72	5.27	6.07
27	ALUMINUM	0.00	0.00	0.00
28	STEEL	0.00	0.00	0.00
29	COPPER	0.00	0.00	0.00
30	PETROCHEMICAL	0.00	0.00	0.00
31	PETROLEUM REFINING	0.00	0.00	0.00
32		0.00	0.00	0.00
33	TOTAL	4.72	5.27	6.07
34				
35	**GRAND TOTAL	21.66	38.41	68.22
36				
37	**AVG GROWTH/INTERVAL (PCT/YR)			
38	R.C AND G1			
39	INDUSTRIAL NEI	37.6	30.1	20.8
40	TOTAL MOE	9.5	16.4	19.8
41	GRAND TOTAL	37.4	31.6	20.9
42		31.5	28.9	20.7
43	**FORECASTING PARAMETERS			
44				
45	(R.C AND G1) KWH/CAPITA	17.2	32.0	54.8
46	(NEI) KWH/EMPLOYEE	66.5	75.3	102.2
47	(TOTAL) KWH/CAPITA	21.5	37.0	62.2
48				
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

2556
1997
2551
19922541
1982
2546
19872546
1987
2551
19921390.3
1129.6
1129.6
1530.3844.5
769.9
769.9
1530.6844.5
769.9
769.9
1530.6

LOW GAS GROWTH SCENARIO

HEP ORT 509

ELECTRICITY CONSUMPTION IN KERMANSHAHAN
MILLIONS OF KILOWATT-HOURS

	** HISTORY **		** PROJECTION **	
	1970	1972	1977	1982
1	2529	2531	2536	2541
2	26.70	26.72	26.77	26.82
3	RESIDENTIAL	10.70	16.45	26.00
4	COMMERCIAL	10.45	17.66	33.69
5	INDUSTRIAL	2.31	6.59	13.27
6	AGRICULTURAL	0.00	1.28	1.47
7	STREET LIGHTING	3.29	5.12	7.86
8	NON-PROFIT ORGANIZATIONS	.01	.07	.21
9	OTHER (MOE)	0.00	0.00	.03
10	TOTAL	26.76	47.17	84.53
11				
12	** PRIVATE-PUBLIC SVC AND INDUS			
13				
14	RESIDENTIAL	2.51	2.25	2.12
15	COMMERCIAL	*.30	*.26	*.23
16	INDUSTRIAL	21.91	23.87	25.48
17	OTHER (INDUSTRIAL)	8.05	8.77	9.37
18	TOTAL	32.77	35.15	37.20
19				
20				
21	** RESIDENTIAL, COMMERCIAL AND OTHER	27.26	43.09	73.61
22				
23	** INDUSTRIAL			
24				
25	NON-ENERGY INTENSIVE (NEI)	26.27	26.23	34.12
26	ALUMINUM	0.00	0.00	0.00
27	STEEL	0.00	0.00	0.00
28	COPPER	0.00	0.00	0.00
29	PETROCHEMICAL	0.00	0.00	0.00
30	PETROLEUM REFINING	0.00	0.00	0.00
31		13.00	14.00	14.00
32	TOTAL	32.27	39.23	48.12
33				
34	** GRAND TOTAL	59.53	82.32	121.73
35				
36	** AVG GROWTH/INTERVAL (PER/YR)			
37	R, C AND O			
38	INDUSTRIAL NEI	29.2	26.7	19.7
39	TOTAL MOE	7.7	16.9	11.4
40	GRAND TOTAL	37.3	32.4	20.7
41		20.5	22.8	16.8
42				
43	** FORECASTING PARAMETERS			
44	(R, C AND O) kWh/capita	29.2	43.2	70.3
45				
46	(NEI) kWh/employee	533.4	385.7	443.1
47	(TOTAL) kWh/capita	63.7	62.6	116.3
48				
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 510

ELECTRICITY CONSUMPTION IN LOREstan
MILLIONS OF KILOWATT-HOURSPAGE 510-1
11/09/77

	HISTORY			PROJECTION		
	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982	2546 1987
1 2 *MINISTRY OF ENERGY						
3						
4 RESIDENTIAL	4.29	6.00	10.61			
5 COMMERCIAL	6.53	10.85	16.10			
6 INDUSTRIAL	*29	71.51	76.92			
7 AGRICULTURAL	0.00	*16	*46			
8 STREET LIGHTING	2.06	2.48	3.68			
9 NON-PROFIT ORGANIZATIONS	0.00	*02	*14			
10 OTHER (M&E)	0.00	*03	*11			
11 TOTAL	13.17	91.05	108.02			
12						
13 *PRIVATE-PUBLIC SVC AND INDUS						
14						
15 RESIDENTIAL	2.72	2.86	3.02			
16 COMMERCIAL	*41	*35	*31			
17 INDUSTRIAL	4.66	5.32	5.66			
18 OTHER (INDUSTRIAL)	2.60	2.84	3.03			
19 TOTAL	10.61	11.37	12.04			
20						
21 *RESIDENTIAL, COMM&L A&IN OTHER	16.01	22.75	34.43			
22						
23						
24 *INDUSTRIAL						
25						
26 NON-ENERGY INTENSIVE (NEI)	7.77	79.67	85.63			
27 ALUMINUM	0.00	0.00	0.00			
28 STEEL	0.00	0.00	0.00			
29 COPPER	0.00	0.00	0.00			
*30 PETROCHEMICAL	0.00	0.00	0.00			
*31 PETROLEUM REFINING	0.00	0.00	0.00			
32 TOTAL	0.00	0.00	0.00			
33						
34						
35 *GRAND TOTAL	7.77	79.67	85.63			
36						
37 *AVG GROWTH INTERVAL (PCT/YR)	23.78	102.42	120.06	201.31	441.02	869.83
38 R.C AND O						
39 INDUSTRIAL NEI						
40 TOTAL M&E	21.1	62.7	16.7	17.9	14.2	14.3
41 GRAND TOTAL	58.6	21.3	17.5	14.4	13.2	11.6
42						
43 *FORECASTING PARAMETERS						
44						
45 (R.C AND O) KWH/CAPITA	19.1	26.0	37.8	67.3	136.1	232.2
46						
47 (NEI) KWH/EMPLOYEE	180.7	1593.4	1502.3	2234.9	3627.8	5701.3
48 (TOTAL) KWH/CAPITA	28.4	117.2	131.6	201.7	404.9	677.4
49						

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 511

ELECTRICITY CONSUMPTION IN IRAN
MILLIONS OF KILOWATT-HOURSPAGE 511-1
11/09/77

** HISTORY **

	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982	2546 1987	2551 1992	2556 1997
1								

2 **MINISTRY OF ENERGY

3	RESIDENTIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	COMMERCIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	INDUSTRIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	AGRICULTURAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	STREET LIGHTING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	NON-PROFIT ORGANIZATIONS	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	OTHER (MOE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11								
12								

13 **PRIVATE-PUBLIC SVC AND INDUS

14	RESIDENTIAL	5.23	5.74	6.18	6.62	7.0	7.42	7.8
15	COMMERCIAL	0.62	0.70	0.62	0.62	0.62	0.62	0.62
16	INDUSTRIAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	OTHER (INDUSTRIAL)	1.95	2.14	2.29	2.58	2.58	2.58	2.58
18	TOTAL	8.01	8.58	9.09	9.09	9.09	9.09	9.09
19								
20								

21 **RESIDENTIAL, COMM & OTHER

22	RESIDENTIAL, COMM & OTHER	6.05	6.44	6.80	6.59	6.59	6.59	6.59
23	TOTAL	1.96	2.14	2.29	2.44	2.44	2.44	2.44
24								

25 **INDUSTRIAL

26	NON-ENERGY INTENSIVE (NEI)	1.46	2.14	2.29	3.92	4.86	5.87	6.20
27	ALUMINUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	STEEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	COPPER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
*30	PETROCHEMICAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
*31	PETROLEUM REFINING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33								

34 **GRAND TOTAL

35	GRAND TOTAL	8.01	8.58	9.09	20.50	20.50	20.50	20.50
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36 **AVERAGE GROWTH/INTERVAL (PCT/YR)

37	R, C AND O	3.6	34.6	24.4	22.4	21.2	21.2	21.2
38	INDUSTRIAL NEI	4.9	14.6	20.3	16.3	21.1	21.1	21.1
39	TOTAL MOE	43.6	43.5	50.5	34.7	34.7	34.7	34.7
40	GRAND TOTAL	3.9	31.1	23.7	22.7	21.8	21.8	21.8

41 **FORECASTING PARAMETERS

42	(R+C AND O) kWh/capita	29.6	32.7	32.5	73.3	183.8	448.7	678.9
43	(NEI) kWh/employee	245.0	152.9	152.7	250.9	439.8	812.5	1434.9
44	(TOTAL) kWh/capita	39.5	43.6	43.5	90.7	220.4	526.1	1057.2

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

45	(R+C AND O) kWh/capita	29.6	32.7	32.5	73.3	183.8	448.7	678.9
46	(NEI) kWh/employee	245.0	152.9	152.7	250.9	439.8	812.5	1434.9
47	(TOTAL) kWh/capita	39.5	43.6	43.5	90.7	220.4	526.1	1057.2

1836.3

LOW GAS GROWTH SCENARIO

REPORT 512

ELECTRICITY CONSUMPTION IN KUZEstan
MILLIONS OF KILOWATT-HOURSPAGE 512-1
11/09/77

	HISTORY		PROJECTION	
	1970	1972	1977	1982
1			2536	2541
2 ADMINISTRY OF ENERGY			1977	1982
3				2556
4 RESIDENTIAL	109.94	179.32	263.74	2556
5 COMMERCIAL	79.99	95.25	139.57	1992
6 INDUSTRIAL	666.47	1056.27	1363.11	1997
7 AGRICULTURAL	0.00	0.00	0.00	
8 STREET LIGHTING	20.64	26.36	41.25	
9 NON-PROFIT ORGANIZATIONS	0.00	0.00	0.00	
10 OTHER (M&E)	0.00	0.00	0.00	
11 TOTAL	877.04	1357.29	1607.67	
12 *PRIVATE-PUBLIC SVC AND INDUS			3009.04	9330.68
13				14341.90
14				20745.53
15 RESIDENTIAL	23.67	12.07	1.60	29302.02
16 COMMERCIAL	*24	*24	*22	
17 INDUSTRIAL	812.56	885.05	944.75	
18 OTHER (INDUSTRIAL)	272.06	297.01	312.40	
19 TOTAL	1109.14	1194.37	1258.97	
20			1613.04	3816.04
21 **RESIDENTIAL, COMMERCIAL AND OTHER				4355.00
22				4717.00
23				
24 **INDUSTRIAL	234.53	313.24	446.38	1352.47
25				2331.08
26 NON-ENERGY INTENSIVE (NEI)	854.65	1216.33	1570.26	4622.07
27 ALUMINUM	0.00	0.00	0.00	13146.12
28 STEEL	0.00	0.00	0.00	18176.90
29 COPPER	0.00	0.00	0.00	25100.53
*30 PETROCHEMICAL	287.00	356.00	456.00	
*31 PETROLEUM REFINING	610.00	666.00	894.00	
32 TOTAL	1751.65	2238.33	2620.26	
33				11793.65
34				15847.82
35 **GRAND TOTAL	1986.18	2551.57	3066.64	4622.07
36				20976.88
37 **AVG GROWTH INTERVAL (PCT/YR)				27370.11
38 R, C AND O				
39 INDUSTRIAL NEI				
40 TOTAL MOE	17.0	18.0	18.7	11.5
41 GRAND TOTAL				12.1
42				10.0
43 **FORECASTING PARAMETERS				
44				
45 (R, C AND O) kWh/capita	128.4	165.8	226.5	355.4
46				
47 (NEI) kWh/employee	6378.0	7371.7	8397.1	9122.0
48 (TOTAL) kWh/capita	1087.1	1350.8	1555.9	16293.5
49				18645.7
NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.				26369.1
				2201.2
				5668.9
				7112.2
				8869.7
				10728.1

LOW GAS GROWTH SCENARIO

REPORT 513

ELECTRICITY CONSUMPTION IN CHAHAR-MOHAL BAKHTYARI
MILLIONS OF KILOWATT-HOURSPAGE 513-1
11/09/77

	HISTORY			PROJECTION		
	1970	1972	1974	1977	1982	1987
1	2529	2531	2533	2536	2541	2546
2	MINISTRY OF ENERGY					
3	RESIDENTIAL	0.00	*92	3.21		
4	COMMERCIAL	0.00	*41	2.16		
5	INDUSTRIAL	0.00	*08	*13		
6	AGRICULTURAL	0.00	0.00	0.00		
7	STREET LIGHTING	0.00	*35	1.73		
8	NON-PROFIT ORGANIZATIONS	0.00	*09	*25		
9	OTHER (MOE)	0.00	0.00	0.00		
10	TOTAL	0.00	1.85	7.48		
11					21.10	55.15
12					114.96	227.66
13	PRIVATE-PUBLIC SVC AND INDUS					404.81
14	PRESIDENTIAL	*28	*33	*38		
15	COMMERCIAL	*40	*34	*30		
16	INDUSTRIAL	2.43	2.65	2.83		
17	OTHER (INDUSTRIAL)	1.01	1.10	1.18		
18	TOTAL	4.12	4.42	4.69		
19				2.58	3.06	0.00
20					0.00	0.00
21	PRESIDENTIAL, COMM'L AND OTHER	*68	2.44	8.03	43.16	87.13
22					179.28	325.47
23						
24	INDUSTRIAL					
25	NON-ENERGY INTENSIVE (NEI)	3.44	3.83	4.14	6.71	15.05
26	ALUMINUM	0.00	0.00	0.00	0.00	27.83
27	STEEL	0.00	0.00	0.00	0.00	48.38
28	COPPER	0.00	0.00	0.00	0.00	79.35
29	PETROCHEMICAL	0.00	0.00	0.00	0.00	0.00
30	PETROLEUM REFINING	0.00	0.00	0.00	0.00	0.00
31	TOTAL	0.00	0.00	0.00	0.00	0.00
32					0.00	0.00
33					0.00	0.00
34	TOTAL	3.44	3.83	4.14	6.71	15.05
35	GRAND TOTAL	4.12	6.27	12.17	23.68	58.21
36					114.96	227.66
37	Avg Growth/Interval (PCT/YR)					404.81
38	R, C AND O					
39	INDUSTRIAL NEI					
40	TOTAL MOE	62.0	28.3	20.5	15.1	15.5
41	GRAND TOTAL	5.7	17.5	17.5	13.1	11.7
42					41.3	15.9
43	FORECASTING PARAMETERS				24.8	14.6
44						14.6
45	(R, C AND O) KWH/CAPITA	2.0	6.9	21.5	42.6	95.6
46	(NEI) KWH/EMPLOYEE	111.0	132.1	133.5	202.6	353.3
47	(TOTAL) KWH/CAPITA	12.2	17.7	32.6	59.4	124.0
48					227.0	405.3
49						517.1
NOTE	*MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.					
						1420.1
						643.2

ELECTRICITY CONSUMPTION IN BOYEN-ABHAI AND KOMKILGEH MILLIONS OF KILOWATT-HOURS

PAGE 514-1
11/09/77

	HISTORY		PROJECTED	
	1970	1972	1977	1982
1	2 ADMINISTHRY OF ENERGY			
2	RESIDENTIAL	0.00	0.00	1.03
3	COMMERCIAL	0.00	0.00	.99
4	INDUSTRIAL	0.00	0.00	6.93
5	AGRICULTURAL	0.00	0.00	0.00
6	STREET LIGHTING	0.00	0.00	0.00
7	NON-PUBLIC ORGANIZATIONS	0.00	0.00	.02
8	OTHER (MOE)	0.00	0.00	0.00
9	TOTAL	0.00	0.00	9.77
10	13 PRIVATE-PUBLIC SVC AND INDUS			
11	RESIDENTIAL	.11	.10	.09
12	COMMERCIAL	.01	.01	.01
13	INDUSTRIAL	1.13	1.23	1.31
14	OTHER (INDUSTRIAL)	.40	.44	.47
15	TOTAL	1.65	1.78	1.86
16	22 RESIDENTIAL, COMMERCIAL AND OTHER			
17	23 INDUSTRIAL	.12	.11	.94
18	24 INDUSTRIAL			
19	25 NON-ENERGY INTENSIVE (NEI)			
20	26 ALUMINUM	1.53	1.67	1.71
21	27 STEEL	0.00	0.00	0.00
22	28 COPPER	0.00	0.00	0.00
23	29 PETROCHEMICAL	0.00	0.00	0.00
24	30 PETROLEUM REFINING	0.00	0.00	0.00
25	31 TOTAL	0.00	0.00	0.00
26	32 TOTAL	1.53	1.67	1.71
27	33 TOTAL	1.53	1.67	1.71
28	34 GRAND TOTAL	1.65	1.78	1.86
29	35 GRAND TOTAL	1.65	1.78	1.86
30	36 SAVING GROWTH/INTERVAL (PCT/YR)			
31	37 R.C AND O			
32	38 INDUSTRIAL NEI			
33	39 TOTAL MOE			
34	40 GRAND TOTAL			
35	41 FORECASTING PARAMETERS			
36	42 (R.C AND O) kWh/capita			
37	43 (NEI) kWh/employee			
38	44 (TOTAL) kWh/capita			
39	45 (R.C AND O) kWh/capita			
40	46 (NEI) kWh/employee			
41	47 (TOTAL) kWh/capita			
42	48 NOTE * MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.			

LOW GAS GROWTH SCENARIO

REPORT 515

ELECTRICITY CONSUMPTION IN BUSHEM
MILLIONS OF KILOWATT-HOURSPAGE 515-1
11/09/77

	HISTORY		PROJECTION	
	2529 1970	2531 1972	2536 1977	2541 1982
1				
2 *MINISTRY OF ENERGY				
3				
4 RESIDENTIAL	2.02	5.79	13.77	
5 COMMERCIAL	3.60	8.35	14.77	
6 INDUSTRIAL	.77	6.98	10.77	
7 AGRICULTURAL	0.00	0.00	0.00	
8 STREET LIGHTING	.73	.92	1.64	
9 NON-PROFIT ORGANIZATIONS	*.03	.29	1.00	
10 OTHER (MOE)	0.00	0.00	0.00	
11 TOTAL	7.15	22.33	41.95	
12 *PRIVATE-PUBLIC SVC AND INDUS				
13				
14 RESIDENTIAL	2.21	1.51	1.08	
15 COMMERCIAL	.39	.33	.24	
16 INDUSTRIAL	41.84	45.57	48.65	
17 OTHER (INDUSTRIAL)	14.48	15.77	16.86	
18 TOTAL	58.92	63.19	66.88	
19				
20				
21 *RESIDENTIAL, COMM'L AND OTHER				
22				
23				
24 *INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	18.65	29.92	37.88	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
*30 PETROCHEMICAL	0.00	0.00	0.00	
*31 PETROLEUM REFINING	38.40	38.40	38.00	
*32 TOTAL	0.00	0.00	0.00	
33				
34 TOTAL	57.09	68.32	76.28	
35 *GRAND TOTAL	66.07	85.51	108.83	
36				
37 *AVERAGE GROWTH INTERVAL (PCT/YR)				
38 R/C AND O	28.8	28.7	22.1	
39 INDUSTRIAL NEI	18.0	16.9	23.6	
40 TOTAL MOE	49.7	36.6	25.2	
41 GRAND TOTAL	33.4	15.5	21.4	
42				
43 *FORECASTING PARAMETERS				
44 (R/C AND O) kWh/capita	30.0	53.7	95.5	
45				
46 (NEI) kWh/employee	1099.4	1300.9	1456.9	
47 (TOTAL) kWh/capita	221.0	267.2	319.1	
48				
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

REPORT 516

ELECTRICITY CONSUMPTION IN FARMS
MILLIONS OF KILOWATT-HOURSPAGE 516-1
11/09/77

	HISTORY		PROJECTION	
	1970	1972	1977	1982
1				
2 <i>*ADMINISTRATIVE ENERGY</i>				
3				
4 RESIDENTIAL	27.93	42.09	69.44	
5 COMMERCIAL	33.71	53.06	64.95	
6 INDUSTRIAL	19.17	63.89	126.36	
7 AGRICULTURAL	9.23	11.81	18.02	
8 STREET LIGHTING	8.13	11.52	14.22	
9 NON-PROFIT ORGANIZATIONS	6.64	1.25	3.40	
10 OTHER (IND)	0.00	0.00	0.00	
11 TOTAL	98.81	183.62	296.39	
12 <i>*PRIVATE-PUBLIC SVC AND INDUS</i>				
13				
14 RESIDENTIAL	11.35	11.58	11.93	
15 COMMERCIAL	7.49	6.32	5.66	
16 INDUSTRIAL	97.41	106.10	113.25	
17 OTHER (INDUSTRIAL)	37.87	41.27	44.10	
18 TOTAL	154.12	165.27	174.94	
19				
20				
21 <i>*RESIDENTIAL, COMM'L AND OTHER</i>				
22				
23				
24 <i>*INDUSTRIAL</i>				
25				
26 NON-ENERGY INTENSIVE (NEI)	89.05	142.76	163.61	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
+30 PETROCHEMICAL	0.00	0.00	0.00	
+31 PETROLEUM REFINING	65.40	68.50	84.10	
32 TOTAL	0.00	0.00	36.00	
33 TOTAL	154.45	211.26	283.71	
34 <i>*GRAND TOTAL</i>				
35				
36 GRAND TOTAL	252.93	348.89	471.33	
37 <i>*AVERAGE GROWTH/INTERVAL (PCT/YR)</i>				
38 R+C AND OTHER				
39 INDUSTRIAL NEI				
40 TOTAL MOE	17.6	18.4	18.0	
41 GRAND TOTAL	31.7	22.5	21.6	
42 <i>*FORECASTING PARAMETERS</i>				
43				
44 (R+C AND OTHER) KWH/CAPITA	58.1	78.6	101.6	
45				
46 (NET) KWH/EMPLOYEE	1023.6	1502.7	1474.0	
47 (TOTAL) KWH/CAPITA	149.2	199.1	255.3	

1	2529	2531	2533	2536	2541	2546	2551	2556
2	1970	1972	1974	1977	1982	1987	1992	1997
3								
4								
5								
6								
7								
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15								
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+31								
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49								

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

ELECTRICITY CONSUMPTION IN SAHeli-JUNOOS
MILLIONS OF KILOWATT-HOURS

	* HISTORY *		* PROJECTION *	
	2529 1970	2531 1972	2536 1977	2541 1982
1				
2 *MINISTRY OF ENERGY				
3				
4 RESIDENTIAL	4.95	7.54	11.68	
5 COMMERCIAL	11.89	19.44	50.73	
6 INDUSTRIAL	1.04	2.01	1.74	
7 AGRICULTURAL	0.00	0.00	0.00	
8 STREET LIGHTING	1.25	1.53	4.20	
9 NON-PROFIT ORGANIZATIONS	.20	.40	.57	
10 OTHER (MOE)	0.00	0.00	0.00	
11 TOTAL	19.35	30.97	68.92	
12 *PRIVATE-PUBLIC SVC AND INDUS				
13				
14 RESIDENTIAL	3.15	4.55	5.51	
15 COMMERCIAL	5.50	4.64	4.16	
16 INDUSTRIAL	1.88	2.05	2.19	
17 OTHER (INDUSTRIAL)	3.43	3.73	3.99	
18 TOTAL	13.96	14.97	15.65	
19				
20				
21 *RESIDENTIAL, COMM'L AND OTHER				
22				
23				
24 *INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	6.40	7.79	7.92	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
30 PETROCHEMICAL	0.00	0.00	0.00	
*31 PETROLEUM REFINING	0.00	0.00	0.00	
32				
33 TOTAL	6.40	7.79	7.92	
34				
35 *GRAND TOTAL	33.34	45.94	84.77	
36				
37 *AVERAGE GROWTH/INTERVAL (PCT/YR)				
38 R.C AND O				
39 INDUSTRIAL NEI				
40 TOTAL MCE				
41 GRAND TOTAL				
42				
43 *FORECASTING PARAMETERS				
44				
45 (R.C AND O) kWh/capita	71.0	98.6	148.8	
46 (NEI) kWh/employee	304.6	354.1	316.8	
47 (TOTAL) kWh/capita	98.5	118.7	208.3	
48				
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

K E P O R I T S I C
E L E C T R I C I T Y C O N S U M P T I O N I N K E R H A M
M I L L I O N S O F K I L O - A T T - H O U R S

PAGE 51b-1
11/09/97

** HISTORY **

	1970	1972	1974	1977	1982	1987	1992	1997
2529	2531	2533	2536	2541	2546	2551	2556	2556

1 ADMINISTRY OF ENERGY

3	RESIDENTIAL	9.04	13.30	22.35				
4	COMMERCIAL	9.96	14.74	26.39				
5	INDUSTRIAL	5.47	13.26	57.49				
6	AGRICULTURAL	1.10	4.32	9.67				
7	STREET LIGHTING	4.41	5.63	6.06				
8	NON-PROFIT ORGANIZATIONS	*.33	*.54	1.02				
9	OTHER (MOE)	0.00	0.00	0.00				
10	TOTAL	30.31	56.84	121.98				
11								
12								
13	**PRIVATE-PUBLIC SVC AND INDUS							
14								
15	RESIDENTIAL	5.03	5.17	5.32				
16	COMMERCIAL	1.00	.84	.76				
17	INDUSTRIAL	18.98	20.67	22.07				
18	OTHER (INDUSTRIAL)	8.14	8.87	9.48				
19	TOTAL	33.15	35.55	37.63				
20								
21								
22	**RESIDENTIAL, COMMERCIAL AND OTHER							
23								
24	**INDUSTRIAL	30.87	49.59	70.57				
25								
26	NON-ENERGY INTENSIVE (NEI)	32.54	42.80	89.04	138.29	276.41	525.69	1030.50
27	ALUMINUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	STEEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	COPPER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	PETROCHEMICAL	0.00	0.00	0.00	512.30	740.25	2180.00	2180.00
31	PETROLEUM REFINING	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	TOTAL	32.54	42.80	89.04	650.59	1067.06	2705.69	3210.50
33								
34	**GRAND TOTAL	63.46	92.39	159.61	185.34	385.02	3325.99	4415.47
35								
36	**AVG GROWTH/INTERVAL (PCT/YR)							
37	R,C AND O	24.4	24.1	18.7	14.3	14.2	11.4	
38	INDUSTRIAL NEI	29.6	15.8	14.9	13.7	14.4	11.2	
39	TOTAL MOE	*6.7	89.4	12.2	19.5	5.8	6.3	
40	GRAND TOTAL	26.7	70.1	12.0	19.2	5.8	6.3	
41								
42								
43	**FORECASTING PARAMETERS							
44	(R,C AND O) kWh/CAPITA	35.8	56.7	76.5	134.6	281.2	489.8	862.9
45								
46	(NEI) kWh/EMPLOYEE	336.0	400.0	788.0	1162.2	1925.3	3044.9	4769.4
47	(TOTAL) kWh/CAPITA	73.5	105.7	172.9	788.2	1225.1	2622.7	3162.1
48								

NOTE * MEANS THAT THE FORELAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

LOW GAS GROWTH SCENARIO

HEPOH 519

ELECTRICITY CONSUMPTION IN SISTAK AND BALUCHESTAN
MILLIONS OF KILOWATT-HOURS

	** HISTORY **		** PROJECTION **	
	2529 1970	2531 1972	2533 1974	2536 1977
1				
2 **MINISTRY OF ENERGY				
3				
4 RESIDENTIAL	3.46	4.35	7.66	
5 COMMERCIAL	4.20	6.02	8.33	
6 INDUSTRIAL	.24	.51	1.01	
7 AGRICULTURAL	0.00	0.00	0.00	
8 STREET LIGHTING	1.45	1.85	2.50	
9 NON-PROFIT ORGANIZATIONS	.06	.34	.66	
10 OTHER (MOE)	0.00	0.00	0.00	
11 TOTAL	9.45	13.07	20.16	
12 **PRIVATE-PUBLIC SVC AND INDUS				
13				
14 RESIDENTIAL	1.25	1.66	1.94	
15 COMMERCIAL	1.40	1.18	1.05	
16 INDUSTRIAL	0.00	0.00	0.00	
17 OTHER (INDUSTRIAL)	.67	.94	1.00	
18 TOTAL	3.52	3.78	4.00	
20				
21 **RESIDENTIAL, COMM'L AND OTHER				
22				
23 22.115	15.40	22.15	47.85	
24 **INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	1.11	1.45	2.01	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
30 PETROCHEMICAL	0.00	0.00	0.00	
31 PETROLEUM REFINING	0.00	0.00	0.00	
32 TOTAL	1.11	1.45	2.01	
33				
34 32.96	16.85	24.16	51.35	
35 **GRAND TOTAL	12.97			
36				
37 **AVG GROWTH/INTERVAL (PCT/YR)				
38 R/C AND O	14.4	29.3	41.0	
39 INDUSTRIAL NEI	15.2	20.2	25.0	
40 TOTAL MOE	17.5	30.7	30.4	
41 GRAND TOTAL	14.9	28.6	28.6	
42 **FORECASTING PARAMETERS				
43				
44 (R/C AND O) KWH/CAPITA	23.6	30.7	42.0	
45 (NEI) KWH/EMPLOYEE	50.5	60.4	74.4	
46 (TOTAL) KWH/CAPITA	25.6	33.6	46.6	
47				
48				
49				
NOTE	*MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.			

LOW GAS GROWTH SCENARIO

EPOH 1

520

ELECTRICITY CONSUMPTION IN KUWAIT

MNGF 520-1

11/09/17

	HISTORY		PROJECTION	
	2529 1970	2531 1972	2530 1974	2541 1982
1				
2 ADMINISTRTIVE ENERGY				
3				
4 RESIDENTIAL	34.74	49.45	75.31	
5 COMMERCIAL	43.04	71.59	107.71	
6 INDUSTRIAL	41.66	42.97	54.83	
7 AGRICULTURAL	34.55	34.56	62.30	
8 STREET LIGHTING	18.06	16.37	21.59	
9 NON-PROFIT ORGANIZATIONS	1.50	1.04	1.70	
10 OTHER (MOE)	0.00	.55	1.03	
11 TOTAL	172.63	216.55	327.47	
12 PRIVATE-PUBLIC SVC AND INDUS				
13				
14 RESIDENTIAL	10.95	12.22	13.25	
15 COMMERCIAL	10.54	8.90	7.96	
16 INDUSTRIAL	80.60	87.79	93.71	
17 OTHER (INDUSTRIAL)	33.27	36.24	38.73	
18 TOTAL	135.36	145.15	151.65	
19				
20				
21				
22 RESIDENTIAL, COMMERCIAL AND OTHER	152.44	194.70	249.85	
23				
24 INDUSTRIAL				
25				
26 NON-ENERGY INTENSIVE (NEI)	155.55	167.00	191.27	
27 ALL INDUSTRY	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
30 PETROCHEMICAL	0.00	0.00	0.00	
31 PETROLEUM REFINING	0.00	0.00	0.00	
32 TOTAL	155.55	167.00	191.27	
33				
34				
35 GRAND TOTAL	307.45	361.70	481.12	
36				
37 AVG GROWTH/INTERVAL (PCT/YR)				
38 R+C AND O	19.3	24.7	19.1	
39 INDUSTRIAL NEI	7.1	16.3	19.2	
40 TOTAL NEI	20.5	33.8	20.3	
41 GRAND TOTAL	13.5	21.5	15.1	
42 FORECASTING PARAMETERS				
43				
44 (R+C AND O) kWh/capita	53.5	64.5	90.9	
45 (R+C AND O) kWh/capita	53.5	64.5	90.9	
46 (NEI) kWh/employee	596.6	553.0	564.2	
47 (TOTAL) kWh/capita	10H.c	119.9	150.8	
48				
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS RUN HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPLETED VALUES.

2556

1997

2551

1992

2551

1997

13637.69

LOW GAS GROWTH SCENARIO

REPORT 521

ELECTRICITY CONSUMPTION SEMAN
MILLIONS OF KILOWATT-HOURSPAGE 521-1
11/09/77

	HISTORY		PROJECTION	
	2529 1970	2531 1972	2536 1977	2541 1982
1 MINISTRY OF ENERGY				
2 RESIDENTIAL	4.10	5.37	7.92	
3 COMMERCIAL	*6.3	4.18	4.41	
4 INDUSTRIAL	*3.6	*6.0	3.92	
5 AGRICULTURAL	2.42	1.73	2.6	
6 STREET LIGHTING	1.64	1.30	2.6	
7 NON-PROFIT ORGANIZATIONS	*94	1.14	*86	
8 OTHER (MOE)	0.00	0.00	0.00	
9 TOTAL	10.09	14.32	21.88	
10 PRIVATE-PUBLIC SVC AND BUS				
11 TOTAL	55.44	135.12	266.19	495.06
12 *AVG GROWTH INTERVAL (PCT/YR)				824.53
13 R, C AND O				
14 RESIDENTIAL	*4.6	*36	*30	
15 COMMERCIAL	*0.4	*0.3	*0.3	
16 INDUSTRIAL	6.48	7.05	7.53	
17 OTHER (INDUSTRIAL)	2.27	2.47	2.64	
18 TOTAL	9.25	9.92	10.50	
19				
20				
21 *RESIDENTIAL, COMM'L AND OTHER	10.24	14.11	18.29	
22 *INDUSTRIAL				
23 TOTAL	9.11	10.13	14.09	
24 PETROLEUM REFINING				
25 TOTAL	9.11	10.13	14.09	
26 NON-ENERGY INTENSIVE (NEI)	9.11	10.13	14.09	
27 ALUMINUM	0.00	0.00	0.00	
28 STEEL	0.00	0.00	0.00	
29 COPPER	0.00	0.00	0.00	
30 PETROCHEMICAL	0.00	0.00	0.00	
31 TOTAL	0.00	0.00	0.00	
32 TOTAL	0.00	0.00	0.00	
33 TOTAL	0.00	0.00	0.00	
34 TOTAL	0.00	0.00	0.00	
35 GRAND TOTAL	19.34	24.24	32.38	
36				
37 R, C AND O				
38 INDUSTRIAL NEI	16.6	25.6	38.3	
39 TOTAL MCE	11.0	17.9	13.3	
40 GRAND TOTAL	21.7	36.3	19.5	
41				
42 FORECASTING PARAMETERS				
43				
44				
45 (R, C AND O) KWH/CAPITA	40.1	50.4	60.4	
46				
47 (NEI) KWH/EMPLOYEE	455.5	422.1	521.9	
48 (TOTAL) KWH/CAPITA	75.8	86.6	106.9	
49				

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

ELECTRICITY CONSUMPTION IN 1920
MILLIONS OF KILOWATTS-HOURSPAGE 522-1
11/09/77

			1970	1972	1974	1977	1982	1987	1992	1997	2001
1 MINISTRY OF ENERGY											
2 MINISTRY OF ENERGY											
3	4 RESIDENTIAL	4.84	8.14	14.49							
5	5 COMMERCIAL	4.92	9.15	17.17							
6	6 INDUSTRIAL	4.95	17.03	24.86							
7	7 AGRICULTURAL	2.56	5.36	12.71							
8	8 STREET LIGHTING	3.31	5.08	5.51							
9	9 NON-PROFIT ORGANIZATIONS	0.00	0.24	0.18							
10	10 OTHER (POE)	0.00	0.00	0.00							
11	11 TOTAL	20.31	45.00	74.92							
12	13 PRIVATE-PUBLIC SVC AND INDUS										
14	14 RESIDENTIAL	2.96	2.48	4.26							
15	15 COMMERCIAL	1.58	1.33	1.19							
16	16 INDUSTRIAL	45.10	49.12	56.44							
17	17 OTHER (INDUSTRIAL)	16.17	17.62	16.80							
18	18 TOTAL	65.81	70.55	74.59							
19											
20											
21	21 RESIDENTIAL, COMMERCIAL AND OTHER										
22	22 TOTAL	20.19	31.78	53.51							
23	23 INDUSTRIAL										
24	24 TOTAL										
25	25 NON-ENERGY INTENSIVE (NEI)	65.93	83.77	96.10							
26	26 ALUMINUM	0.00	0.00	0.00							
27	27 STEEL	0.00	0.00	0.00							
28	28 COPPER	0.00	0.00	0.00							
29	29 PETROCHEMICAL	0.00	0.00	0.00							
30	30 PETROLEUM REFINING	0.00	0.00	0.00							
31	31 TOTAL	0.00	0.00	0.00							
32											
33											
34	34 TOTAL	65.93	83.77	96.10							
35	35 GRAND TOTAL	86.12	115.55	149.61							
36	36 AVG GROWTH/INTERVAL (PCT/YR)										
37	37 R.C AND O										
38	38 INDUSTRIAL NEI										
39	39 TOTAL MCE	26.9	31.1	19.7							
40	40 GRAND TOTAL	43.4	47.1	20.9							
41		15.1	48.6	21.8							
42		22.5	22.5	20.4							
43	43 FORECASTING PARAMETERS										
44	44 (R,C AND O) KWH/CAPITA	57.4	80.3	124.2							
45											
46	46 (NEI) KWH/EMPLOYEE	1373.5	1782.3	1813.42							
47											
48	48 TOTAL KWH/CAPITA	244.7	291.8	347.1							
49											

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.

PAGE 522-1
11/09/77

ELECTRICITY CONSUMPTION IN ESPAÑA
MILLIONS OF KILOWATT-HOURS

PAGE 523-1
11/09/77

	HISTORY			PROJECTION		
	1970	1972	1974	1977	1982	1987
1	2 MINISTRY OF ENERGY					
2	RESIDENTIAL	42.88	66.89	107.85		
3	COMMERCIAL	40.40	62.03	88.27		
4	INDUSTRIAL	60.51	207.29	448.71		
5	AGRICULTURAL	2.67	8.80	11.89		
6	STREET LIGHTING	15.87	22.13	29.03		
7	NON-PROFIT ORGANIZATIONS	*47	*76	1.34		
8	OTHER (M&E)	0.00	0.00	0.00		
9	TOTAL	162.80	367.90	687.09		
10	13 PRIVATE-PUBLIC SVC AND INDUS					
11	RESIDENTIAL	13.97	9.48	6.83		
12	COMMERCIAL	1.50	1.27	1.13		
13	INDUSTRIAL	253.30	275.90	294.51		
14	OTHER (INDUSTRIAL)	67.51	95.40	101.95		
15	TOTAL	356.28	382.05	404.42		
16	22 RESIDENTIAL, COMM'L AND OTHER					
17	117.76	171.36	246.34			
18	23 INDUSTRIAL					
19	401.32	422.59	405.17			
20	25 NON-ENERGY INTENSIVE (NEI)					
21	27 ALUMINUM	0.00	0.00	0.00		
22	28 STEEL	0.00	156.00	440.00		
23	29 COPPER	0.00	0.00	0.00		
24	30 PETROCHEMICAL	0.00	0.00	0.00		
25	31 PETROLEUM REFINING	0.00	0.00	0.00		
26	32 TOTAL	401.32	578.59	845.17		
27	33 TOTAL	519.04	749.95	1091.51		
28	34 GRAND TOTAL					
29	35 AVG GROWTH/INTERVAL (PCT/YR)					
30	R/C AND O	20.4	25.1	14.1	13.0	10.4
31	INDUSTRIAL NEI	2.4	16.4	17.8	10.8	8.0
32	TOTAL M&E	41.4	31.3	20.8	16.4	5.6
33	GRAND TOTAL	19.0	32.6	16.1	15.8	4.5
34	43 FORECASTING PARAMETERS					
35	44 (R/C AND O) KWH/CAPITA	71.4	96.7	131.0	235.4	393.3
36	45 (NEI) KWH/EMPLOYEE	2157.6	2224.2	1893.3	2833.1	4375.0
37	46 (TOTAL) KWH/CAPITA	314.8	423.2	580.3	1242.3	2266.8
38	47 NOTE	MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT. AS OPPOSED TO BEING COMPUTED VALUES.				
39	48					
40	49					
41						
42						
43						
44						
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46						
47						
48						
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LOW GAS GROWTH SCENARIO

REPORT 600
CONVERSION FACTORS
MILLION BTU PER UNIT

PAGE 600-1
11/09/77

	HISTORY **			PROJECTION **		
	1972	1973	1974	1977	1982	1987
1 *PETROLEUM (UNIT)	25.31	25.32	25.33	25.30	25.41	25.46
* 2 LPG (CUBIC METER)	26.38	26.38	26.38	26.38	26.38	26.38
* 3 MOGAS (CUBIC METER)	33.15	33.15	33.15	33.15	33.15	33.15
* 4 AVGAS (CUBIC METER)	29.98	29.98	29.98	29.98	29.98	29.98
* 5 JET FUEL (CUBIC METER)	32.15	32.16	32.16	32.16	32.16	32.16
* 6 GASOLINE TYPE (CU. METER)	34.14	34.14	34.14	34.14	34.14	34.14
* 7 KEROSENE (AVERAGE CUBIC METER)	33.10	33.10	33.10	33.10	33.10	33.10
* 8 KEROSENE (CUBIC METER)	34.35	34.35	34.35	34.35	34.35	34.35
* 9 GAS OIL (CUBIC METER)	35.46	35.48	35.48	35.48	35.48	35.48
* 10 FUEL OIL (CUBIC METER)	37.00	37.00	37.00	37.00	37.00	37.00
* 11 MARINE DIESEL (CUBIC METER)	36.09	36.09	36.09	36.09	36.09	36.09
* 12 MARINE F/O (CUBIC METER)	37.53	37.53	37.53	37.53	37.53	37.53
* 13 MARINE F/O (METRIC TON)	40.80	40.80	40.80	40.80	40.80	40.80
* 14 MARINE F/O (METRIC TON)	17.85	17.85	17.85	17.85	17.85	17.85
* 15 *COAL						
* 16 INDUSTRIAL USE (METRIC TON)	25.40	25.40	25.40	25.40	25.40	25.40
* 17 POWER PLANT (METRIC TON)	17.85	17.85	17.85	17.85	17.85	17.85
* 18 NATURAL GAS (1000 CUBIC FT.)	1.06	1.06	1.06	1.06	1.06	1.06
* 19 HYDROELECTRICITY (1000 KWH)	10.00	10.00	10.00	10.00	10.00	10.00
* 20 CHARCOAL (METRIC TON)	27.78	27.78	27.78	27.78	27.78	27.78
* 21 *WOOD (METRIC TON)	13.89	13.89	13.89	13.89	13.89	13.89
* 22 ANIMAL MATTER (METRIC TON)	13.89	13.89	13.89	13.89	13.89	13.89
* 23 NUCLEAR POWER (1000 KWH)	10.00	10.00	10.00	10.00	10.00	10.00
* 24 ELECTRICITY (BTU/KWH)	3413.00	3413.00	3413.00	3413.00	3413.00	3413.00
* 25 PETROCHEMICALS (CUBIC METER)	26.70	26.70	26.70	26.70	26.70	26.70
* 26 INDUSTRIAL ENERGY USE (METRIC TON)	1.80	1.80	1.80	1.80	1.80	1.80
* 27 BRICK (METRIC TON)	27.94	27.94	27.94	27.94	27.94	27.94

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

ELASTICITY PARAMETERS AND PRICE LEVELS--ELECTRICITY FORECAST

	* HISTORY *			* PROJECTION *		
	2529 1970	2531 1972	2533 1974	2536 1977	2541 1982	2546 1987
1 ELASTICITY PARAMETERS						
2 (KWH PER CAPITA)						
3 R, C AND Q TO GRP/CAPITA						
4 * 6 LESS THAN \$500				1.80	1.80	1.80
5 * 7 \$500 TO \$1000				1.60	1.60	1.60
6 * 8 OVER \$1000				1.30	1.30	1.30
9						
*10 R, C AND Q TO PRICE						
11						
12 ELASTICITY PARAMETERS						
13 (KWH PER EMPLOYEE)						
14 NEI INDUSTRY TO GRP/CAPITA						
15 *16 LESS THAN \$2500				1.10	1.10	1.10
*17 OVER \$2500				1.00	1.00	1.00
18						
19 NEI INDUSTRY TO PRICE						
20						
21						
22 ELECTRICITY PRICE INDEX						
23 (2533=100 PERCENT)						
24 R, C AND Q						
*25 NEI INDUSTRY	100.00	100.00	100.00	100.00	100.00	100.00
*26 ENERGY INTENSIVE INDUSTRY	100.00	100.00	100.00	100.00	100.00	100.00
*27						

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS ROW HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.

INDUSTRIAL ELECTRICITY USE AND SELF-GENERATION

לעון - מועדון נסיעות וטיסות

A HISTORY OF

1 SPECIFIC ELECTRICITY USE 2 (KWH PER METRIC TON)

INDUSTRIAL SELF-GENERATION

PETROLEUM REFINING		PETROLEUM REFINING	
MAHKAZI	152.00	333.00	554.00
AZABAYAN	0.00	144.00	144.00
KHIMANSHAH		14.00	14.00
PEHSIAN GULF	801.00	902.00	903.00
FAHS	36.00	46.00	1342.00
ESFAHAN	0.00	361.00	1860.00
MASHHAD	0.00	0.00	2222.00
			37.00
			36.00
			361.00
			181.00
			621.00
			1061.00
			1765.00
			765.00
			635.00
			6222.00
			361.00
			1061.00

4.2	KHUZESTAN BUSHEHR FAHS	436.00 38.00 95.00	2495.00 80.00 412.00	2495.00 80.00 412.00	2495.00 80.00 412.00
NOTE	+ MEANS THAT THE TOTAL AMOUNT IS NOT KNOWN.				

MISCELLANEOUS FORECASTING FACTORS

	** HISTORY **		** PROJECTION **	
2529	2531	2533	2536	2546
1970	1972	1974	1977	1982
1 AVG GROWTH/INTERVAL (PCT/YR)				1987
+ 2 SOLID FUEL			-3.70	-3.70
4				-3.70
5				-3.70
6 CAPACITY FACTORS (PCT)				-3.70
+ 7 SUGAR				-3.70
8				-3.70
9				-3.70
10 STEEL PRODUCTION FOR ESFAHAN				-3.70
11 (THOUSAND TONS/YEAR)				-3.70
*12 NISC				-3.70
*13 NISIC				-3.70
*14 TOTAL FUR ESFAHAN				-3.70
15				-3.70
16				-3.70
17 COPPER INDUSTRY ENERGY USE				-3.70
*18 FUEL OIL (PERCENT)				-3.70
*19 NATURAL GAS (PERCENT)				-3.70

NOTE *MEANS THAT THE FORECAST VALUES FOR THIS RUN HAVE BEEN ENTERED AS INPUT, AS OPPOSED TO BEING COMPUTED VALUES.