

Refining Industry



World Oil and Gas Review **2008**

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Refining capacity

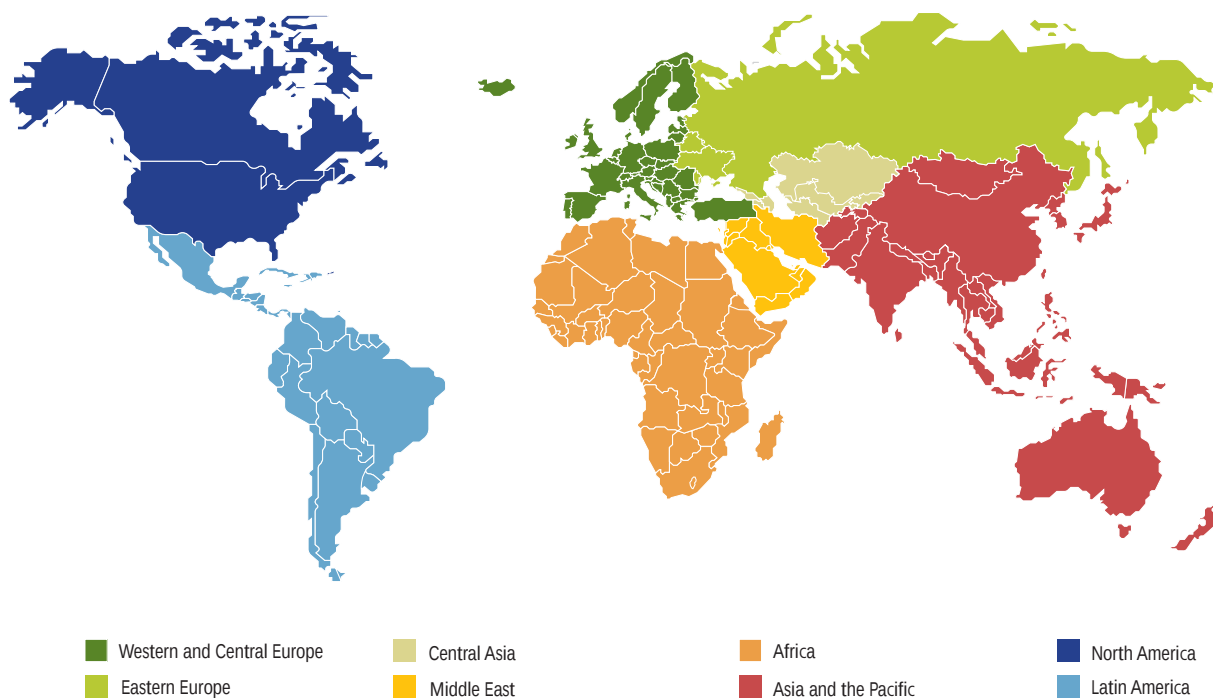
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List of countries by areas and aggregates

Elenco dei paesi per aree e aggregati

EUROPE: Western and Central Europe, Eastern Europe.

Western Europe and Central Europe: Albania, Austria, Belgium, Bosnia Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Gibraltar, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Macedonia, Malta, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Eastern Europe: Belorussia, Moldova, Russia and Ukraine.

CENTRAL ASIA: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan.

MIDDLE EAST: Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates and Yemen.

AFRICA: Algeria, Angola, Benin, Cameroon, Chad, Congo, Côte d'Ivoire, Dem. Rep. Congo, Egypt, Equatorial Guinea, Ethiopia, Gabon, Ghana, Kenya, Libya, Madagascar, Mauritania, Morocco, Mozambique, Namibia, Nigeria, Rwanda, Senegal, Somalia, South Africa, Sudan, Tanzania, Tunisia, Zambia and Zimbabwe.

ASIA AND THE PACIFIC: Afghanistan, Australia, Bangladesh, Brunei, China, East Timor, Hong Kong, India, Indonesia, Japan, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, North Korea, Pakistan, Papua New Guinea, Philippines, Singapore, South Korea, Sri Lanka, Taiwan, Thailand and Vietnam.

AMERICAS: North America, Latin America.

North America: Canada and the United States.

Latin America: Argentina, Barbados, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela.

WORLD: High income countries, Middle income countries, Low income countries.

High income countries: Australia, Austria, Bahrain, Barbados, Belgium, Brunei, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Gibraltar, Greece, Hong Kong, Iceland, Ireland, Israel, Italy, Japan, Kuwait, Luxembourg, Malta, Netherlands, Netherlands Antilles, New Zealand, Norway,

Portugal, Qatar, Saudi Arabia, Singapore, Slovenia, South Korea, Spain, Sweden, Switzerland, Taiwan, Trinidad and Tobago, United Arab Emirates, United Kingdom and United States.

Middle income countries:

Upper middle income: Argentina, Brazil, Bulgaria, Chile, Costa Rica, Croatia, Equatorial Guinea, Gabon, Hungary, Kazakhstan, Latvia, Lebanon, Libya, Lithuania, Malaysia, Mexico, Montenegro, Oman, Panama, Poland, Romania, Russia, Serbia, Slovakia, South Africa, Turkey, Uruguay and Venezuela.

Lower middle income: Albania, Algeria, Angola, Armenia, Azerbaijan, Belorussia, Bolivia, Bosnia Herzegovina, Cameroon, China, Colombia, Congo, Cuba, Dominican Republic, Ecuador, Egypt, El Salvador, Georgia, Guatemala, Honduras, Indonesia, Iran, Iraq, Jamaica, Jordan, Macedonia, Moldova, Morocco, Namibia, Nicaragua, Paraguay, Peru, Philippines, Sri Lanka, Suriname, Syria, Thailand, Tunisia, Turkmenistan and Ukraine.

Low income countries: Afghanistan, Bangladesh, Benin, Chad, Côte d'Ivoire, Dem. Rep. Congo, East Timor, Ethiopia, Ghana, Haiti, India, Kenya, Kyrgyzstan, Madagascar, Mauritania, Mongolia, Mozambique, Myanmar, Nepal, Nigeria, North Korea, Pakistan, Papua New Guinea, Rwanda, Senegal, Somalia, Sudan, Tajikistan, Tanzania, Uzbekistan, Vietnam, Yemen, Zambia and Zimbabwe.

INTERNATIONAL INSTITUTIONS AND ORGANISATIONS

EUROPEAN UNION (27): Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and United Kingdom.

OECD: Europe, Asia and the Pacific, North America.

Europe: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Asia and the Pacific: Australia, Japan, New Zealand and South Korea.

North America: Canada, Mexico and the United States.

OPEC (12): Algeria, Angola, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela.

This *Review* adopts the most commonly used names for countries and not necessarily the official name.

The names used do not in any way indicate the opinion of Eni on the legal status of countries, territories, cities or areas mentioned. The term “country” is used to indicate, when necessary, also a territory or area. Borders between countries are indicated on the maps and do not imply judgement of any kind or the position of Eni with regard to current international disputes.

For operational and analytical purposes, economies are divided among income groups according to 2006 Gross National Income (GNI) per capita, calculated using the World Bank Atlas method, in effect until July 1st 2008. The groups are: low income, \$905 or less; lower-middle income, \$906–3,595; upper-middle income, \$3,596–11,115; and high income, \$11,116 or more. Classification by income does not necessarily reflect development status.

Other analytical groups based on geographic regions are also used.

Eni regrets that it is not able to supply further information on the data presented in this *Review*, apart from the methodological notes at the end.

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The *World Oil and Gas Review* has been prepared by the Strategies & Development Department - Economic and Energy Studies.

In questa pubblicazione i nomi dei paesi sono quelli di uso comune e non necessariamente quelli ufficiali. Le denominazioni adottate non implicano alcuna opinione da parte di Eni sullo stato legale dei paesi, dei territori, delle città o delle aree citati. Il termine “paese” così come impiegato in questo lavoro si riferisce, quando è il caso, anche a territori o aree. I confini tra i paesi che vengono indicati nelle mappe non implicano alcun giudizio o presa d’atto di Eni sulle dispute internazionali in corso.

Per ragioni operative e di analisi, le economie sono suddivise in gruppi in base al Reddito Nazionale Lordo (RNL) pro capite del 2006, calcolato con il metodo del World Bank Atlas, valido fino al 1° luglio 2008. I gruppi sono: a basso reddito, fino a \$905; a medio-basso reddito, \$906-3.595; a medio-alto reddito, \$3.596-11.115; ad alto reddito, da \$11.116. La classificazione per reddito non riflette necessariamente il livello di sviluppo.

Sono usati anche altri raggruppamenti basati sulle regioni geografiche.

Eni è spiacente di non poter fornire ulteriori informazioni sui dati presentati oltre a quelle riportate nelle note metodologiche che chiudono il volume.

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La *World Oil and Gas Review* è stata realizzata dalla Direzione Strategie e Sviluppo - Ufficio Studi Economici ed Energetici.

Refining capacity

Capacità di raffinazione

Areas and aggregates

million tons

	1996						1999					
	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)
EUROPE	189	1,223	304	25	898	73	186	1,188	313	26	886	75
Western and Central Europe	147	845	256	30	697	83	142	843	266	32	695	82
Eastern Europe	42	378	47	13	200	53	44	345	47	14	191	55
CENTRAL ASIA	11	62	17	27	31	51	13	64	17	26	28	44
MIDDLE EAST	41	292	58	20	269	92	42	320	63	20	286	90
AFRICA	45	149	17	11	113	76	44	147	16	11	118	80
ASIA AND THE PACIFIC	170	932	290	31	775	83	189	1,077	390	36	844	78
AMERICAS	262	1,231	723	59	1,087	88	251	1,303	772	59	1,142	88
North America	184	854	598	70	776	91	174	910	633	70	808	89
Latin America	78	377	125	33	311	83	77	393	139	35	334	85
WORLD	718	3,889	1,409	36	3,174	82	725	4,099	1,572	38	3,304	81
High income countries	383	2,294	1,013	44	2,031	89	367	2,416	1,091	45	2,080	86
Upper middle income countries	127	799	181	23	550	69	129	772	197	25	561	73
Lower middle income countries	161	662	190	29	490	74	177	751	257	34	537	71
Low income countries	47	133	25	19	102	77	52	160	27	17	127	79
INTERNATIONAL ORGANISATIONS												
EUROPEAN UNION (27)	129	760	236	31	643	85	124	762	244	32	642	84
OECD	370	2,107	967	46	1,849	88	354	2,219	1,043	47	1,903	86
OPEC (12)	58	411	99	24	369	90	62	444	107	24	391	88

Refining capacity / Capacità di raffinazione

milioni di tonnellate

Aree e aggregati

2003						2007						
Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	
180	1,186	341	29	941	79	170	1,191	363	30	973	82	EUROPE
134	850	290	34	711	84	125	857	306	36	716	84	Western and Central Europe
46	336	51	15	230	68	45	335	57	17	257	77	Eastern Europe
12	63	17	27	29	46	12	62	17	27	35	56	CENTRAL ASIA
44	343	71	21	300	87	47	371	81	22	325	88	MIDDLE EAST
44	158	27	17	126	80	43	152	30	20	126	83	AFRICA
188	1,172	518	44	939	80	189	1,282	622	49	1,081	84	ASIA AND THE PACIFIC
243	1,342	841	63	1,172	87	239	1,387	886	64	1,185	85	AMERICAS
168	942	680	72	842	89	164	979	706	72	831	85	North America
75	400	161	40	330	83	75	409	179	44	354	87	Latin America
711	4,265	1,815	43	3,507	82	700	4,447	1,999	45	3,725	84	WORLD
351	2,490	1,207	48	2,125	85	338	2,542	1,256	49	2,155	85	High income countries
128	779	224	29	598	77	123	794	254	32	660	83	Upper middle income countries
178	799	319	40	618	77	183	887	404	46	716	81	Lower middle income countries
54	197	65	33	166	84	56	224	84	38	195	87	Low income countries
INTERNATIONAL ORGANISATIONS												
117	772	268	35	656	85	109	784	281	36	659	84	EUROPEAN UNION (27)
337	2,243	1,130	50	1,937	86	323	2,276	1,180	52	1,928	85	OECD
62	466	114	24	392	84	65	485	116	24	417	86	OPEC (12)

Refining capacity / Capacità di raffinazione

Countries

million tons

	1996						1999					
	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)
EUROPE	189	1,223	304	25	898	73	186	1,188	313	26	886	75
Belgium	5	34	8	24	32	92	5	35	8	24	32	91
Belorussia	2	20	0	2	12	62	2	20	0	2	11	57
France	13	88	25	28	83	95	13	97	26	26	83	85
Germany	16	105	43	41	104	99	14	111	44	40	106	96
Italy	18	113	33	30	80	71	17	115	35	31	86	75
Netherlands	7	63	19	30	60	95	7	63	22	34	57	91
Romania	10	26	12	47	14	51	10	22	11	48	10	46
Russia	34	304	40	13	176	58	36	271	39	15	169	62
Spain	10	66	16	25	55	83	10	66	18	27	59	89
Turkey	5	36	5	15	26	74	5	36	7	19	26	72
Ukraine	6	54	7	13	12	23	6	54	7	13	11	20
United Kingdom	14	97	42	44	88	91	13	95	43	45	82	86
Others Europe	49	218	51	24	155	71	48	204	54	26	154	76
CENTRAL ASIA	11	62	17	27	31	51	13	64	17	26	28	44
MIDDLE EAST	41	292	58	20	269	92	42	320	63	20	286	90
Iran	8	65	12	18	65	100	9	80	14	17	78	97
Iraq	9	32	4	11	23	71	9	32	4	11	22	69
Kuwait	3	41	17	42	39	95	3	45	19	42	46	102
Saudi Arabia	8	85	13	15	82	96	8	91	14	16	79	86
United Arab Emirates	3	13	2	17	12	93	3	14	2	15	12	87
Others Middle East	10	57	10	18	49	87	10	58	10	18	51	87
AFRICA	45	149	17	11	113	76	44	147	16	11	118	80
Algeria	4	24	0	1	19	82	4	24	0	1	22	93
Egypt	8	32	2	5	28	89	8	33	2	6	29	87
Nigeria	3	19	5	26	10	53	4	18	4	23	9	50
South Africa	4	23	8	33	17	74	4	24	8	34	18	77
Others Africa	26	51	2	4	38	75	24	49	2	4	40	81
ASIA AND THE PACIFIC	170	932	290	31	775	83	189	1,077	390	36	844	78
Australia	10	38	18	48	32	83	10	42	21	50	34	81
China	59	216	106	49	151	70	69	269	161	60	182	67
India	14	65	15	23	63	98	17	91	18	20	88	97
Indonesia	8	50	22	44	46	93	10	55	22	40	46	83
Japan	39	263	77	29	208	79	38	270	85	32	205	76
Malaysia	5	19	0	0	19	100	6	25	5	21	18	74
Singapore	4	59	14	23	55	94	4	62	15	24	44	71
South Korea	5	108	17	16	101	94	5	135	33	24	118	88
Taiwan	3	39	7	19	32	83	3	39	7	19	37	95
Thailand	6	36	7	20	33	93	9	46	16	35	38	82
Others Asia and the Pacific	17	41	6	14	34	84	18	43	6	13	34	78
AMERICAS	262	1,231	723	59	1,087	88	251	1,303	772	59	1,142	88
Argentina	11	32	21	64	24	74	10	32	21	65	28	86
Brazil	13	80	26	32	67	83	14	94	29	30	80	85
Canada	23	94	44	47	70	75	22	96	47	49	74	77
Mexico	6	76	20	27	65	86	6	76	23	30	66	88
United States	161	760	554	73	706	93	152	814	586	72	734	90
Venezuela	5	61	24	39	52	85	5	62	28	44	56	89
Others Americas	43	127	34	27	103	81	42	128	39	31	104	82

Refining capacity / Capacità di raffinazione

milioni di tonnellate

Paesi

2003						2007						
Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	
180	1,186	341	29	941	79	170	1,191	363	30	973	82	EUROPE
5	39	9	24	36	93	4	39	10	25	31	79	Belgium
2	21	2	9	16	74	2	24	5	23	21	88	Belorussia
12	101	27	26	86	85	12	101	31	31	85	84	France
14	114	47	41	109	96	13	119	48	40	105	88	Germany
17	115	40	35	88	77	17	116	41	35	94	81	Italy
7	65	24	36	57	88	7	65	24	37	55	84	Netherlands
9	21	10	48	11	53	6	20	10	52	14	71	Romania
38	272	42	15	193	71	38	278	46	16	221	80	Russia
10	67	21	31	57	85	10	69	22	31	61	88	Spain
5	36	7	19	27	75	4	31	7	22	27	87	Turkey
6	43	7	16	21	49	5	33	6	18	15	45	Ukraine
11	93	40	43	77	83	11	94	42	44	75	80	United Kingdom
44	199	65	33	162	81	41	201	71	35	169	84	Others Europe
12	63	17	27	29	46	12	62	17	27	35	56	CENTRAL ASIA
44	343	71	21	300	87	47	371	81	22	325	88	MIDDLE EAST
10	81	14	18	77	96	11	92	15	16	82	89	Iran
10	32	2	6	22	69	12	34	4	11	22	65	Iraq
3	45	20	43	42	93	3	45	20	44	46	101	Kuwait
7	94	19	21	86	91	7	104	20	19	97	94	Saudi Arabia
4	30	2	7	20	67	3	29	2	7	23	80	United Arab Emirates
10	62	14	22	52	85	11	68	21	31	56	82	Others Middle East
44	158	27	17	126	80	43	152	30	20	126	83	AFRICA
4	24	0	1	22	93	5	24	0	2	20	85	Algeria
9	40	6	16	33	84	9	40	9	22	33	82	Egypt
3	17	5	28	6	36	2	8	2	28	3	36	Nigeria
4	26	9	33	25	99	4	26	9	34	24	94	South Africa
24	53	7	13	39	75	23	55	10	18	46	83	Others Africa
188	1,172	518	44	939	80	189	1,282	622	49	1,081	84	ASIA AND THE PACIFIC
10	41	23	56	33	82	8	37	23	63	29	79	Australia
70	319	217	68	238	75	72	394	295	75	325	83	China
18	121	50	41	124	102	19	152	70	46	149	98	India
9	53	22	42	49	92	10	57	22	38	48	83	Indonesia
33	250	91	36	202	81	30	242	93	38	194	80	Japan
6	26	8	29	26	101	6	26	8	29	26	99	Malaysia
4	69	16	23	38	54	4	71	16	23	54	76	Singapore
5	135	35	26	106	79	5	137	38	28	120	88	South Korea
4	61	32	53	46	75	4	65	35	54	53	82	Taiwan
8	52	17	32	43	83	8	56	17	31	48	86	Thailand
21	46	7	14	34	74	23	47	6	13	36	76	Others Asia and the Pacific
243	1,342	841	63	1,172	87	239	1,387	886	64	1,185	85	AMERICAS
9	30	20	67	26	86	9	31	20	65	29	91	Argentina
15	100	39	40	82	83	15	103	49	47	88	85	Brazil
22	99	55	56	83	84	21	100	55	55	81	81	Canada
6	77	29	38	71	92	6	77	33	43	73	94	Mexico
146	843	625	74	759	90	143	879	652	74	750	85	United States
5	65	26	41	44	67	5	66	28	43	51	78	Venezuela
40	128	46	36	107	84	40	132	49	37	114	86	Others Americas

Areas and aggregates

thousand barrels/day

	1996						1999					
	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)
EUROPE	189	24,500	5,519	25	17,957	73	186	23,804	5,693	26	17,727	74
Western and Central Europe	147	16,922	4,666	30	13,949	82	142	16,881	4,854	32	13,906	82
Eastern Europe	42	7,578	853	13	4,008	53	44	6,923	839	14	3,822	55
CENTRAL ASIA	11	1,233	298	27	625	51	13	1,296	298	26	561	43
MIDDLE EAST	41	5,844	1,069	20	5,386	92	42	6,403	1,160	20	5,728	89
AFRICA	45	2,982	309	11	2,265	76	44	2,950	297	11	2,353	80
ASIA AND THE PACIFIC	170	18,645	5,298	31	15,505	83	189	21,563	7123	36	16,874	78
AMERICAS	262	24,612	13,197	59	21,734	88	251	26,053	14,076	59	22,836	88
North America	184	17,079	10,914	70	15,517	91	174	18,201	11,541	70	16,158	89
Latin America	78	7,533	2,283	33	6,217	83	77	7,852	2,535	35	6,678	85
WORLD	718	77,816	25,690	36	63,472	82	725	82,069	28,647	38	66,080	81
High income countries	383	45,900	18,509	44	40,626	89	367	48,351	19,913	45	41,603	86
Upper middle income countries	127	16,009	3,284	23	10,998	69	129	15,461	3,572	25	11,214	73
Lower middle income countries	161	13,245	3,449	29	9,806	74	177	15,045	4,668	34	10,732	71
Low income countries	47	2,662	448	19	2,042	77	52	3,212	494	17	2,532	79
INTERNATIONAL ORGANISATIONS												
EUROPEAN UNION (27)	129	15,223	4,306	31	12,868	85	124	15,247	4,449	32	12,848	84
OECD	370	42,148	17,678	46	36,988	88	354	44,398	19,050	47	38,050	86
OPEC (12)	58	8,224	1,807	24	7,381	90	62	8,904	1,950	24	7,817	88

Refining capacity / Capacità di raffinazione

migliaia di barili/giorno

Aree e aggregati

2003						2007						
Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	
180	23,768	6,192	29	18,817	79	170	23,867	6,605	30	19,452	82	EUROPE
134	17,018	5,283	34	14,225	84	125	17,144	5,572	36	14,312	83	Western and Central Europe
46	6,750	909	15	4,593	68	45	6,723	1,033	17	5,140	76	Eastern Europe
12	1,272	301	27	583	46	12	1,252	301	27	693	55	CENTRAL ASIA
44	6,937	1,298	21	5,999	86	47	7,533	1,489	22	6,508	86	MIDDLE EAST
44	3,171	495	17	2,522	80	43	3,052	542	20	2,523	83	AFRICA
188	23,468	9,436	44	18,787	80	189	25,698	11,305	49	21,624	84	ASIA AND THE PACIFIC
243	26,849	15,305	63	23,439	87	239	27,767	16,098	64	23,693	85	AMERICAS
168	18,852	12,379	72	16,843	89	164	19,586	12,853	72	16,620	85	North America
75	7,997	2,926	40	6,596	82	75	8,181	3,245	44	7,073	86	Latin America
711	85,465	33,027	43	70,147	82	700	89,169	36,340	45	74,493	84	WORLD
351	49,906	21,995	48	42,504	85	338	50,969	22,888	49	43,095	85	High income countries
128	15,612	4,062	29	11,965	77	123	15,920	4,614	32	13,190	83	Upper middle income countries
178	16,000	5,797	40	12,356	77	183	17,793	7,316	46	14,312	80	Lower middle income countries
54	3,947	1,173	33	3,322	84	56	4,487	1,522	38	3,895	87	Low income countries
INTERNATIONAL ORGANISATIONS												
117	15,463	4,886	35	13,129	85	109	15,685	5,135	36	13,171	84	EUROPEAN UNION (27)
337	44,885	20,616	50	38,742	86	323	45,546	21,506	52	38,564	85	OECD
62	9,394	2,077	24	7,836	83	65	9,824	2,109	24	8,348	85	OPEC (12)

Refining capacity / Capacità di raffinazione

Countries

thousand barrels/day

	1996						1999					
	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)
EUROPE	189	24,500	5,519	25	17,957	73	186	23,804	5,693	26	17,727	74
Belgium	5	686	151	24	633	92	5	709	154	24	643	91
Belorussia	2	400	7	2	246	62	2	400	7	2	226	57
France	13	1,755	463	28	1,668	95	13	1,939	475	26	1,654	85
Germany	16	2,100	776	41	2,088	99	14	2,213	796	40	2,127	96
Italy	18	2,257	603	30	1,606	71	17	2,294	633	31	1,728	75
Netherlands	7	1,270	346	30	1,193	94	7	1,266	396	34	1,145	90
Romania	10	528	221	47	271	51	10	438	189	48	203	46
Russia	34	6,098	724	13	3,518	58	36	5,443	710	15	3,384	62
Spain	10	1,324	299	25	1,094	83	10	1,326	322	27	1,176	89
Turkey	5	713	100	15	529	74	5	713	127	19	514	72
Ukraine	6	1,080	122	13	244	23	6	1,080	122	13	211	20
United Kingdom	14	1,933	772	44	1,759	91	13	1,900	781	45	1,631	86
Others Europe	49	4,356	935	24	3,108	71	48	4,083	981	26	3,084	76
CENTRAL ASIA	11	1,233	298	27	625	51	13	1,296	298	26	561	43
MIDDLE EAST	41	5,844	1,069	20	5,386	92	42	6,403	1,160	20	5,728	89
Iran	8	1,295	215	18	1,297	100	9	1,602	258	17	1,551	97
Iraq	9	634	67	11	450	71	9	634	67	11	435	69
Kuwait	3	825	317	42	787	95	3	895	340	42	913	102
Saudi Arabia	8	1,699	240	15	1,632	96	8	1,823	265	16	1,574	86
United Arab Emirates	3	250	40	17	232	93	3	290	40	15	245	84
Others Middle East	10	1,141	190	18	988	87	10	1,159	190	18	1,011	87
AFRICA	45	2,982	309	11	2,265	76	44	2,950	297	11	2,353	80
Algeria	4	470	5	1	386	82	4	470	5	1	437	93
Egypt	8	640	30	5	566	88	8	658	31	6	572	87
Nigeria	3	385	94	26	203	53	4	360	78	23	180	50
South Africa	4	462	141	33	344	74	4	474	147	34	364	77
Others Africa	26	1,025	39	4	767	75	24	988	36	4	799	81
ASIA AND THE PACIFIC	170	18,645	5,298	31	15,505	83	189	21,563	7,123	36	16,874	78
Australia	10	761	339	48	633	83	10	837	387	50	680	81
China	59	4,328	1,928	49	3,027	70	69	5,387	2,926	60	3,631	67
India	14	1,294	273	23	1,267	98	17	1,811	334	20	1,756	97
Indonesia	8	991	401	44	926	93	10	1,119	404	40	922	82
Japan	39	5,263	1,430	29	4,151	79	38	5,407	1,573	32	4,108	76
Malaysia	5	376	1	0	378	100	6	491	91	21	365	74
Singapore	4	1,175	248	23	1,108	94	4	1,245	268	24	889	71
South Korea	5	2,155	317	16	2,029	94	5	2,705	607	24	2,368	88
Taiwan	3	770	133	19	641	83	3	770	133	19	733	95
Thailand	6	717	129	20	660	92	9	926	298	35	751	81
Others Asia and the Pacific	17	815	99	14	685	84	18	865	102	13	672	78
AMERICAS	262	24,612	13,197	59	21,734	88	251	26,053	14,076	59	22,836	88
Argentina	11	648	375	64	479	74	10	643	373	65	550	86
Brazil	13	1,608	480	32	1,342	83	14	1,891	530	30	1,605	85
Canada	23	1,877	813	47	1,399	75	22	1,912	869	49	1,475	77
Mexico	6	1,515	375	27	1,301	86	6	1,515	420	30	1,326	88
United States	161	15,202	10,101	73	14,118	93	152	16,289	10,672	72	14,683	90
Venezuela	5	1,212	427	39	1,032	85	5	1,248	492	44	1,110	89
Others Americas	43	2,550	626	27	2,064	81	42	2,555	720	31	2,087	82

Refining capacity / Capacità di raffinazione

migliaia di barili/giorno

Paesi

2003						2007						
Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	Number of refineries	Primary capacity	Conversion capacity (FCC eqv.)	Complexity ratio (%)	Crude runs	Utilization of primary capacity (%)	
180	23,768	6,192	29	18,817	79	170	23,867	6,605	30	19,452	82	EUROPE
5	776	175	24	725	93	4	781	180	25	620	79	Belgium
2	420	34	9	310	74	2	480	100	23	420	88	Belorussia
12	2,023	495	26	1,720	85	12	2,023	576	31	1,700	84	France
14	2,288	858	41	2,185	96	13	2,386	865	40	2,100	88	Germany
17	2,294	714	35	1,768	77	17	2,329	738	35	1,880	81	Italy
7	1,307	433	36	1,143	87	7	1,318	448	37	1,100	83	Netherlands
9	421	182	48	221	53	6	399	187	52	282	71	Romania
38	5,470	753	15	3,859	71	38	5,583	827	16	4,420	79	Russia
10	1,347	378	31	1,144	85	10	1,377	396	31	1,210	88	Spain
5	713	127	19	533	75	4	613	127	22	535	87	Turkey
6	860	122	16	424	49	5	660	106	18	300	45	Ukraine
11	1,860	732	43	1,546	83	11	1,885	763	44	1,500	80	United Kingdom
44	3,989	1,189	33	3,239	81	41	4,033	1,292	35	3,385	84	Others Europe
12	1,272	301	27	583	46	12	1,252	301	27	693	55	CENTRAL ASIA
44	6,937	1,298	21	5,999	86	47	7,533	1,489	22	6,508	86	MIDDLE EAST
10	1,612	263	18	1,545	96	11	1,857	269	16	1,640	88	Iran
10	644	37	6	447	69	12	674	68	11	440	65	Iraq
3	905	354	43	843	93	3	905	360	44	910	101	Kuwait
7	1,890	357	21	1,721	91	7	2,100	366	19	1,940	92	Saudi Arabia
4	645	40	7	397	62	3	625	40	7	460	74	United Arab Emirates
10	1,241	247	22	1,045	84	11	1,372	386	31	1,118	81	Others Middle East
44	3,171	495	17	2,522	80	43	3,052	542	20	2,523	83	AFRICA
4	470	5	1	438	93	5	476	7	2	406	85	Algeria
9	796	114	16	666	84	9	796	157	22	650	82	Egypt
3	340	89	28	122	36	2	150	40	28	54	36	Nigeria
4	514	158	33	507	99	4	520	161	34	488	94	South Africa
24	1,051	129	13	789	75	23	1,110	177	18	924	83	Others Africa
188	23,468	9,436	44	18,787	80	189	25,698	11,305	49	21,624	84	ASIA AND THE PACIFIC
10	814	420	56	665	82	8	734	422	63	580	79	Australia
70	6,382	3,934	68	4,769	75	72	7,875	5,316	75	6,500	83	China
18	2,418	909	41	2,477	102	19	3,040	1,259	46	2,980	98	India
9	1,057	404	42	974	92	10	1,163	404	38	960	83	Indonesia
33	4,991	1,679	36	4,047	81	30	4,833	1,714	38	3,880	80	Japan
6	527	137	29	525	100	6	538	139	29	526	98	Malaysia
4	1,393	294	23	750	54	4	1,424	293	23	1,070	75	Singapore
5	2,705	646	26	2,125	79	5	2,735	703	28	2,400	88	South Korea
4	1,220	587	53	919	75	4	1,290	625	54	1,060	82	Taiwan
8	1,046	309	32	858	82	8	1,133	318	31	958	85	Thailand
21	915	117	14	679	74	23	933	112	13	710	76	Others Asia and the Pacific
243	26,849	15,305	63	23,439	87	239	27,767	16,098	64	23,693	85	AMERICAS
9	609	365	67	522	86	9	624	365	65	570	91	Argentina
15	1,996	722	40	1,646	82	15	2,061	887	47	1,750	85	Brazil
22	1,983	1,019	56	1,664	84	21	2,003	1,010	55	1,620	81	Canada
6	1,545	530	38	1,420	92	6	1,545	599	43	1,454	94	Mexico
146	16,869	11,360	74	15,179	90	143	17,583	11,843	74	15,000	85	United States
5	1,291	474	41	870	67	5	1,311	501	43	1,020	78	Venezuela
40	2,556	835	36	2,137	84	40	2,640	893	37	2,279	86	Others Americas

Oil product balances

Bilancio dei prodotti petroliferi

Oil products balances / Bilancio dei prodotti petroliferi

Areas and aggregates

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
EUROPE												
Production	74.91	187.94	370.58	168.71	110.30	912.44	83.97	184.84	369.58	161.80	102.46	902.65
Consumption	86.90	173.78	360.73	175.66	130.69	927.77	92.94	172.33	370.68	156.87	136.27	929.09
Balance	-12.00	14.16	9.84	-6.95	-20.39	-15.33	-8.97	12.51	-1.09	4.93	-33.82	-26.45
Western and Central Europe												
Production	63.58	156.52	307.65	95.37	86.90	710.01	69.05	154.37	307.11	98.32	79.35	708.20
Consumption	77.11	143.23	318.46	127.71	109.55	776.05	81.53	142.65	331.29	118.25	114.19	787.92
Balance	-13.53	13.29	-10.81	-32.34	-22.65	-66.04	-12.48	11.72	-24.19	-19.93	-34.84	-79.72
Eastern Europe												
Production	11.33	31.42	62.93	73.34	23.40	202.43	14.92	30.47	62.47	63.48	23.10	194.44
Consumption	9.79	30.55	42.28	47.95	21.14	151.71	11.41	29.68	39.38	38.62	22.08	141.17
Balance	1.54	0.88	20.65	25.39	2.26	50.72	3.51	0.79	23.09	24.86	1.02	53.27
CENTRAL ASIA												
Production	0.67	4.92	10.33	10.97	4.55	31.44	0.63	4.50	9.76	9.38	4.12	28.38
Consumption	0.45	6.45	7.69	10.19	3.77	28.55	0.94	5.45	7.05	8.75	4.07	26.25
Balance	0.22	-1.53	2.64	0.78	0.78	2.89	-0.30	-0.96	2.72	0.63	0.05	2.13
MIDDLE EAST												
Production	58.57	32.58	110.65	83.22	26.10	311.11	61.92	34.55	118.74	86.77	27.88	329.86
Consumption	12.48	31.49	74.59	57.23	35.16	210.94	15.62	34.27	77.91	60.17	38.79	226.75
Balance	46.09	1.09	36.06	26.00	-9.06	100.17	46.30	0.28	40.83	26.60	-10.90	103.10
AFRICA												
Production	17.99	19.56	43.21	36.20	3.64	120.59	24.44	18.00	45.21	38.39	3.41	129.45
Consumption	6.11	22.96	43.76	25.77	10.21	108.82	7.77	23.18	48.99	25.25	11.16	116.35
Balance	11.88	-3.40	-0.55	10.43	-6.57	11.78	16.66	-5.18	-3.78	13.14	-7.75	13.10
ASIA AND THE PACIFIC												
Production	79.22	129.37	317.35	154.33	111.68	791.95	99.63	139.88	355.92	143.78	121.13	860.34
Consumption	122.27	130.01	353.81	182.24	121.10	909.42	149.38	140.17	380.07	184.38	126.76	980.76
Balance	-43.05	-0.63	-36.46	-27.92	-9.42	-117.47	-49.75	-0.29	-24.15	-40.60	-5.63	-120.42
AMERICAS												
Production	101.46	428.96	363.21	115.81	170.39	1,179.82	112.79	453.72	379.08	112.71	180.65	1,238.95
Consumption	103.75	441.85	363.27	115.79	173.67	1,198.33	118.17	467.11	391.39	119.84	191.45	1,287.96
Balance	-2.30	-12.90	-0.06	0.03	-3.28	-18.51	-5.38	-13.39	-12.31	-7.13	-10.80	-49.02
North America												
Production	68.15	350.89	262.86	38.22	128.93	849.06	73.51	371.25	271.83	37.43	127.93	881.94
Consumption	71.18	365.72	272.19	51.60	140.85	901.55	80.02	390.13	289.46	51.94	155.93	967.48
Balance	-3.03	-14.83	-9.33	-13.38	-11.92	-52.49	-6.51	-18.88	-17.63	-14.51	-28.00	-85.53
Latin America												
Production	33.31	78.06	100.35	77.59	41.45	330.76	39.28	82.47	107.25	75.28	52.73	357.00
Consumption	32.57	76.13	91.08	64.18	32.82	296.79	38.15	76.98	101.93	67.90	35.53	320.49
Balance	0.73	1.93	9.27	13.41	8.63	33.97	1.13	5.49	5.32	7.38	17.20	36.51

Aree e aggregati
(milioni di tonnellate)

2003						2007						
LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	
												EUROPE
107.68	190.71	396.12	162.14	105.25	961.91	117.34	199.54	416.47	152.07	110.04	995.47	Production
108.36	159.73	396.22	135.60	141.85	941.76	117.00	149.43	430.73	120.00	143.03	960.19	Consumption
-0.68	30.98	-0.10	26.55	-36.60	20.15	0.34	50.11	-14.26	32.08	-32.99	35.28	Balance
												Western and Central Europe
84.17	155.15	320.05	93.01	74.62	726.99	86.15	156.21	327.07	83.92	78.75	732.09	Production
92.12	128.80	354.83	109.28	112.96	797.99	97.20	114.86	381.07	98.53	112.09	803.75	Consumption
-7.94	26.35	-34.79	-16.28	-38.34	-71.00	-11.05	41.35	-54.01	-14.61	-33.34	-71.65	Balance
												Eastern Europe
23.51	35.56	76.08	69.14	30.64	234.92	31.20	43.33	89.40	68.16	31.30	263.38	Production
16.25	30.93	41.39	26.31	28.89	143.77	19.80	34.57	49.66	21.47	30.95	156.45	Consumption
7.26	4.63	34.69	42.82	1.75	91.15	11.39	8.75	39.75	46.69	0.35	106.93	Balance
												CENTRAL ASIA
2.04	6.53	10.63	8.44	2.84	30.48	2.46	7.43	12.29	9.56	4.51	36.24	Production
0.76	6.59	6.88	6.89	5.34	26.46	1.09	8.49	9.35	6.63	6.30	31.84	Consumption
1.28	-0.06	3.75	1.55	-2.51	4.02	1.37	-1.06	2.94	2.93	-1.79	4.40	Balance
												MIDDLE EAST
71.41	37.84	125.93	82.62	30.45	348.25	81.68	47.73	139.36	82.69	34.58	386.04	Production
23.18	42.84	87.49	65.29	35.36	254.15	29.85	54.21	101.43	71.48	45.56	302.53	Consumption
48.23	-5.00	38.44	17.34	-4.91	94.11	51.83	-6.48	37.93	11.21	-10.98	83.51	Balance
												AFRICA
26.87	20.38	47.55	35.10	10.86	140.76	29.32	21.08	50.63	33.04	9.99	144.06	Production
9.37	27.24	56.73	21.23	12.04	126.61	11.67	30.17	65.05	23.44	11.96	142.29	Consumption
17.50	-6.86	-9.18	13.86	-1.18	14.15	17.66	-9.08	-14.42	9.59	-1.97	1.77	Balance
												ASIA AND THE PACIFIC
122.37	161.32	401.17	130.79	144.30	959.96	158.08	182.26	476.23	129.32	157.60	1,103.50	Production
182.88	157.18	409.79	172.69	147.29	1,069.83	220.54	180.22	459.23	166.47	167.96	1,194.43	Consumption
-60.50	4.14	-8.62	-41.90	-2.98	-109.87	-62.46	2.04	17.00	-37.15	-10.36	-90.93	Balance
												AMERICAS
108.98	471.52	390.04	112.70	182.79	1,266.02	107.62	475.74	412.96	113.71	173.88	1,283.92	Production
116.63	491.74	405.00	108.82	182.85	1,305.03	114.89	522.15	439.65	100.62	167.95	1,345.27	Consumption
-7.66	-20.22	-14.96	3.88	-0.06	-39.02	-7.27	-46.41	-26.69	13.09	5.93	-61.35	Balance
												North America
69.02	392.41	281.70	38.75	130.77	912.65	62.89	389.83	291.25	34.44	124.77	903.18	Production
80.55	412.93	301.27	51.05	142.44	988.25	76.16	430.46	321.79	44.78	126.96	1,000.13	Consumption
-11.53	-20.53	-19.57	-12.30	-11.67	-75.60	-13.27	-40.63	-30.54	-10.34	-2.19	-96.96	Balance
												Latin America
39.96	79.11	108.34	73.95	52.02	353.37	44.73	85.92	121.71	79.28	49.11	380.74	Production
36.08	78.80	103.73	57.77	40.41	316.79	38.74	91.69	117.87	55.85	41.00	345.13	Consumption
3.87	0.31	4.61	16.18	11.61	36.58	6.00	-5.77	3.85	23.43	8.11	35.61	Balance

Areas and aggregates

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
WORLD												
Production	332.82	803.33	1,215.32	569.24	426.65	3,347.36	383.37	835.47	1,278.29	552.82	439.65	3,489.61
Consumption	331.97	806.54	1,203.86	566.88	474.59	3,383.84	384.81	842.51	1,276.09	555.26	508.49	3,567.16
Balance	0.85	-3.21	11.46	2.36	-47.94	-36.48	-1.44	-7.04	2.21	-2.44	-68.84	-77.55
High income countries												
Production	220.30	590.04	805.50	266.63	275.81	2,158.29	242.91	611.89	821.41	259.43	274.28	2,209.92
Consumption	234.47	581.61	765.10	294.32	332.63	2,208.13	258.97	610.02	799.70	293.58	354.16	2,316.43
Balance	-14.16	8.43	40.40	-27.69	-56.82	-49.84	-16.07	1.87	21.70	-34.15	-79.88	-106.52
Upper middle income countries												
Production	53.72	119.22	187.69	152.36	61.05	574.03	63.93	120.65	194.51	145.29	65.23	589.59
Consumption	49.99	119.56	154.00	121.89	61.24	506.68	58.11	121.16	161.50	114.13	64.07	518.96
Balance	3.73	-0.35	33.69	30.47	-0.19	67.36	5.82	-0.51	33.01	31.16	1.15	70.63
Lower middle income countries												
Production	46.99	81.20	175.04	130.60	75.02	508.84	61.66	89.10	203.06	127.63	75.97	557.43
Consumption	36.83	85.03	199.04	120.22	66.64	507.76	51.05	89.70	218.37	116.13	72.60	547.86
Balance	10.16	-3.83	-24.00	10.38	8.37	1.08	10.62	-0.60	-15.31	11.50	3.37	9.57
Low income countries												
Production	11.81	12.87	47.09	19.65	14.78	106.19	14.88	13.83	59.31	20.48	24.17	132.67
Consumption	10.69	20.34	85.72	30.45	14.08	161.27	16.69	21.63	96.51	31.42	17.66	183.90
Balance	1.12	-7.46	-38.63	-10.80	0.70	-55.08	-1.81	-7.79	-37.20	-10.95	6.51	-51.23
INTERNATIONAL ORGANISATIONS												
EUROPEAN UNION (27)												
Production	54.81	147.03	285.34	83.14	81.08	651.39	60.94	144.87	285.13	87.29	73.20	651.43
Consumption	71.49	131.42	291.50	115.39	100.81	710.61	75.14	130.97	304.64	106.97	105.25	722.97
Balance	-16.68	15.61	-6.16	-32.25	-19.73	-59.21	-14.20	13.90	-19.51	-19.68	-32.06	-71.54
OECD												
Production	170.80	579.34	725.00	216.66	257.88	1,949.68	190.30	600.90	741.82	218.62	253.67	2,005.31
Consumption	234.14	584.79	743.87	255.94	319.48	2,138.23	255.88	613.11	771.53	246.11	335.17	2,221.80
Balance	-63.34	-5.45	-18.87	-39.28	-61.61	-188.55	-65.58	-12.21	-29.71	-27.49	-81.50	-216.49
OPEC (12)												
Production	81.17	52.11	148.72	106.26	37.87	426.13	87.23	56.51	158.63	108.43	41.92	452.71
Consumption	17.51	48.71	104.57	56.51	43.93	271.22	20.68	51.23	107.84	58.48	46.47	284.71
Balance	63.66	3.40	44.16	49.76	-6.06	154.91	66.55	5.27	50.79	49.95	-4.56	168.00

Aree e aggregati
(milioni di tonnellate)

2003						2007						
LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	
WORLD												
439.35	888.30	1,371.45	531.79	476.49	3,707.37	496.51	933.78	1,507.95	520.39	490.60	3,949.22	Production
441.18	885.31	1,362.11	510.52	524.73	3,723.84	495.04	944.66	1,505.44	488.64	542.76	3,976.54	Consumption
-1.83	2.99	9.34	21.27	-48.24	-16.47	1.47	-10.88	2.51	31.75	-52.16	-27.32	Balance
High income countries												
257.40	638.16	840.45	246.65	275.89	2,258.56	266.63	647.34	876.24	235.63	274.10	2,299.93	Production
283.05	629.74	834.16	287.24	331.61	2,365.79	296.11	637.17	866.78	274.60	318.25	2,392.91	Consumption
-25.65	8.42	6.30	-40.59	-55.72	-107.23	-29.49	10.16	9.46	-38.96	-44.15	-92.97	Balance
Upper middle income countries												
77.07	125.24	212.41	138.89	78.02	631.63	90.90	142.46	241.09	140.68	83.07	698.21	Production
66.13	122.26	174.33	86.40	74.46	523.58	75.38	142.11	204.52	71.74	81.44	575.20	Consumption
10.95	2.98	38.08	52.49	3.56	108.05	15.52	0.35	36.57	68.93	1.63	123.01	Balance
Lower middle income countries												
79.10	105.71	242.02	123.79	91.36	641.99	104.78	122.99	295.76	119.47	102.30	745.29	Production
67.32	104.49	255.76	107.80	92.78	628.15	95.42	131.65	321.97	111.56	113.29	773.88	Consumption
11.78	1.23	-13.74	16.00	-1.42	13.84	9.36	-8.65	-26.21	7.91	-10.99	-28.59	Balance
Low income countries												
25.78	19.18	76.56	22.46	31.22	175.20	34.20	20.99	94.86	24.61	31.13	205.79	Production
24.69	28.82	97.86	29.08	25.88	206.32	28.12	33.74	112.17	30.74	29.78	234.55	Consumption
1.10	-9.64	-21.30	-6.62	5.34	-31.12	6.09	-12.75	-17.32	-6.13	1.35	-28.76	Balance
INTERNATIONAL ORGANISATIONS												
EUROPEAN UNION (27)												
73.48	144.69	296.92	83.19	67.16	665.43	74.21	144.34	302.44	76.61	68.45	666.04	Production
84.95	118.72	325.11	97.89	103.20	729.86	89.32	104.56	346.56	91.13	100.18	731.73	Consumption
-11.47	25.97	-28.19	-14.70	-36.04	-64.43	-15.11	39.79	-44.12	-14.52	-31.73	-65.69	Balance
OECD												
199.14	624.64	754.70	205.41	255.29	2,039.18	202.90	621.52	772.38	187.49	249.00	2,033.28	Production
269.56	629.08	804.40	230.07	313.74	2,246.85	275.90	637.93	838.12	200.99	297.80	2,250.74	Consumption
-70.42	-4.44	-49.70	-24.66	-58.44	-207.67	-73.00	-16.41	-65.74	-13.50	-48.80	-217.46	Balance
OPEC (12)												
97.73	55.13	160.70	104.59	40.49	458.64	111.75	61.25	173.10	107.90	45.24	499.25	Production
27.91	66.22	125.52	67.11	42.36	329.11	38.84	81.35	139.99	73.00	51.74	384.92	Consumption
69.83	-11.09	35.18	37.48	-1.87	129.53	72.91	-20.10	33.12	34.90	-6.50	114.33	Balance

Oil products balances / Bilancio dei prodotti petroliferi

Countries

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
EUROPE												
Production	74.91	187.94	370.58	168.71	110.30	912.44	83.97	184.84	369.58	161.80	102.46	902.65
Consumption	86.90	173.78	360.73	175.66	130.69	927.77	92.94	172.33	370.68	156.87	136.27	929.09
Balance	-12.00	14.16	9.84	-6.95	-20.39	-15.33	-8.97	12.51	-1.09	4.93	-33.82	-26.45
Belgium												
Production	1.76	6.00	14.14	6.24	3.50	31.63	1.58	5.98	13.59	6.32	4.67	32.15
Consumption	5.93	2.74	12.63	5.91	3.49	30.70	6.34	2.40	12.99	5.70	3.40	30.83
Balance	-4.17	3.25	1.51	0.33	0.01	0.93	-4.75	3.59	0.60	0.62	1.27	1.32
Belorussia												
Production	0.74	1.82	3.19	4.81	1.76	12.31	0.75	1.69	3.50	4.31	1.08	11.32
Consumption	0.82	1.31	2.06	4.67	0.85	9.69	0.67	1.13	2.03	2.94	0.96	7.72
Balance	-0.08	0.51	1.13	0.15	0.91	2.62	0.08	0.56	1.47	1.37	0.13	3.61
France												
Production	7.71	17.30	40.70	6.72	11.37	83.79	8.24	17.45	41.51	8.26	7.53	82.97
Consumption	11.61	15.02	47.87	7.12	12.25	93.87	11.56	14.48	52.37	7.10	12.48	97.99
Balance	-3.90	2.27	-7.17	-0.40	-0.88	-10.08	-3.32	2.97	-10.86	1.15	-4.96	-15.02
Germany												
Production	10.34	24.50	49.83	8.34	11.39	104.39	11.36	25.87	49.23	8.22	11.69	106.37
Consumption	15.58	30.30	71.03	9.21	15.13	141.25	17.23	30.28	65.73	8.49	15.74	137.46
Balance	-5.24	-5.80	-21.20	-0.87	-3.75	-36.86	-5.87	-4.40	-16.50	-0.27	-4.05	-31.09
Italy												
Production	5.08	18.74	35.52	10.14	10.82	80.30	6.49	19.82	38.91	11.07	10.13	86.42
Consumption	7.90	17.74	28.21	29.76	11.52	95.13	8.56	17.70	30.59	24.90	15.18	96.93
Balance	-2.82	1.00	7.31	-19.62	-0.70	-14.83	-2.07	2.12	8.32	-13.83	-5.05	-10.51
Netherlands												
Production	6.73	10.18	27.28	11.21	4.26	59.67	8.01	8.66	26.71	9.71	4.16	57.26
Consumption	6.71	4.20	11.58	9.75	9.26	41.49	7.11	4.14	12.58	10.99	9.88	44.70
Balance	0.02	5.99	15.70	1.47	-4.99	18.18	0.90	4.52	14.13	-1.27	-5.72	12.56
Romania												
Production	0.72	3.13	4.68	1.83	3.22	13.57	0.75	2.45	3.71	1.59	1.67	10.17
Consumption	0.74	1.45	4.00	4.72	2.28	13.20	0.74	1.30	2.76	3.10	2.07	9.97
Balance	-0.03	1.68	0.67	-2.89	0.93	0.38	0.01	1.15	0.94	-1.52	-0.40	0.19
Russia												
Production	10.35	26.82	55.42	63.52	21.82	177.93	13.89	26.29	55.18	55.52	21.58	172.46
Consumption	8.59	24.75	34.51	39.26	18.57	125.68	10.36	24.35	32.34	34.08	19.69	120.82
Balance	1.77	2.07	20.91	24.26	3.25	52.25	3.53	1.94	22.85	21.44	1.89	51.64
Spain												
Production	4.36	9.14	22.03	8.83	10.33	54.69	5.48	9.55	22.85	11.94	8.99	58.80
Consumption	5.58	9.10	23.65	9.62	12.42	60.36	6.20	8.94	28.40	12.31	11.94	67.79
Balance	-1.22	0.04	-1.61	-0.79	-2.09	-5.67	-0.72	0.61	-5.55	-0.38	-2.95	-8.99
Turkey												
Production	2.41	3.76	8.82	8.04	3.44	26.46	2.62	3.30	8.86	7.46	3.49	25.72
Consumption	3.96	4.57	10.42	7.67	4.71	31.33	4.85	4.26	9.46	6.88	4.81	30.24
Balance	-1.55	-0.81	-1.60	0.37	-1.27	-4.87	-2.23	-0.96	-0.60	0.58	-1.32	-4.53

Oil products balances / Bilancio dei prodotti petroliferi

Paesi
(milioni di tonnellate)

2003							2007							
LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL		LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL		
EUROPE														
107.68	190.71	396.12	162.14	105.25	961.91		117.34	199.54	416.47	152.07	110.04	995.47	Production	
108.36	159.73	396.22	135.60	141.85	941.76		117.00	149.43	430.73	120.00	143.03	960.19	Consumption	
-0.68	30.98	-0.10	26.55	-36.60	20.15		0.34	50.11	-14.26	32.08	-32.99	35.28	Balance	
Belgium														
2.85	5.80	14.85	8.23	4.52	36.24		4.20	5.12	12.86	5.31	3.52	31.00	Production	
6.74	2.11	13.63	8.59	3.89	34.96		8.63	1.41	13.10	9.16	3.94	36.24	Consumption	
-3.89	3.69	1.22	-0.36	0.62	1.28		-4.43	3.71	-0.24	-3.85	-0.43	-5.24	Balance	
Belorussia														
0.90	1.90	5.04	4.79	2.88	15.51		1.18	4.16	7.62	5.29	2.75	21.00	Production	
0.72	0.96	1.99	1.65	1.87	7.19		0.80	0.99	2.24	1.52	1.78	7.32	Consumption	
0.18	0.94	3.06	3.14	1.01	8.33		0.39	3.18	5.37	3.78	0.97	13.68	Balance	
France														
10.90	15.42	42.18	10.76	7.01	86.27		9.58	16.70	40.90	8.15	9.73	85.05	Production	
11.01	12.29	54.82	5.73	11.03	94.88		11.11	9.94	54.57	5.69	10.59	91.89	Consumption	
-0.11	3.13	-12.64	5.03	-4.02	-8.61		-1.54	6.76	-13.67	2.46	-0.86	-6.84	Balance	
Germany														
12.71	25.48	51.98	9.54	9.56	109.27		13.25	23.98	51.28	10.56	5.93	105.00	Production	
18.43	25.87	63.48	8.70	14.55	131.03		18.96	21.81	61.28	8.29	13.93	124.26	Consumption	
-5.72	-0.38	-11.49	0.84	-5.00	-21.76		-5.71	2.18	-10.01	2.28	-8.00	-19.26	Balance	
Italy														
7.81	20.43	42.30	7.62	10.25	88.42		6.56	20.92	44.34	10.21	11.98	94.00	Production	
9.13	15.71	33.46	21.59	16.33	96.23		8.22	12.43	36.68	14.19	13.78	85.30	Consumption	
-1.32	4.72	8.84	-13.98	-6.08	-7.82		-1.67	8.49	7.66	-3.98	-1.81	8.70	Balance	
Netherlands														
9.02	10.54	25.89	9.69	1.99	57.14		9.69	9.94	25.70	9.15	0.51	55.00	Production	
11.02	4.19	12.47	12.07	8.00	47.75		10.42	4.12	13.54	16.09	7.09	51.26	Consumption	
-2.00	6.35	13.43	-2.38	-6.01	9.39		-0.72	5.82	12.16	-6.94	-6.58	3.74	Balance	
Romania														
0.88	3.30	4.18	1.45	1.27	11.08		1.41	4.25	4.99	0.90	2.58	14.13	Production	
0.93	1.66	3.33	1.97	2.50	10.38		1.34	1.86	4.11	0.92	2.73	10.96	Consumption	
-0.04	1.63	0.85	-0.52	-1.23	0.70		0.07	2.39	0.88	-0.02	-0.16	3.17	Balance	
Russia														
21.76	29.35	63.45	56.38	27.09	198.02		29.38	34.93	76.35	59.05	27.42	227.13	Production	
14.87	25.70	33.65	24.02	24.04	122.28		18.35	29.31	40.59	19.33	26.52	134.09	Consumption	
6.88	3.65	29.80	32.35	3.04	75.74		11.03	5.62	35.76	39.73	0.89	93.03	Balance	
Spain														
5.61	9.00	24.80	10.80	7.00	57.22		5.77	9.61	26.39	10.53	8.21	60.50	Production	
6.46	8.05	35.37	13.13	13.08	76.08		6.73	6.69	41.54	12.19	14.11	81.27	Consumption	
-0.84	0.95	-10.57	-2.33	-6.08	-18.86		-0.96	2.92	-15.15	-1.67	-5.91	-20.77	Balance	
Turkey														
2.11	3.84	9.85	6.95	3.89	26.63		2.25	3.73	10.35	5.01	5.41	26.75	Production	
4.99	2.72	11.59	7.07	5.05	31.41		5.20	2.74	15.11	3.75	6.47	33.26	Consumption	
-2.88	1.12	-1.74	-0.12	-1.17	-4.78		-2.94	0.99	-4.76	1.26	-1.06	-6.51	Balance	

Oil products balances / Bilancio dei prodotti petroliferi

Countries

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
EUROPE												
Ukraine												
Production	0.24	2.79	4.31	5.01	-0.17	12.19	0.28	2.49	3.79	3.66	0.44	10.66
Consumption	0.37	4.27	5.35	3.69	1.71	15.39	0.36	4.07	4.82	1.49	1.43	12.17
Balance	-0.13	-1.48	-1.04	1.32	-1.88	-3.20	-0.08	-1.59	-1.03	2.17	-0.99	-1.51
United Kingdom												
Production	9.24	28.75	40.35	3.61	13.42	95.36	10.35	25.53	36.44	4.86	12.89	90.06
Consumption	5.51	22.44	35.24	7.44	14.19	84.83	5.35	21.83	37.68	3.79	13.09	81.74
Balance	3.72	6.31	5.11	-3.83	-0.77	10.53	5.00	3.70	-1.24	1.07	-0.21	8.32
Others Europe												
Production	15.25	35.02	64.30	30.41	15.16	160.14	14.18	35.76	65.32	28.91	14.13	158.29
Consumption	13.62	35.89	74.18	36.86	24.31	184.86	13.63	37.45	78.94	35.11	25.61	190.74
Balance	1.63	-0.87	-9.87	-6.45	-9.15	-24.72	0.55	-1.69	-13.62	-6.21	-11.48	-32.45
CENTRAL ASIA												
Production	0.67	4.92	10.33	10.97	4.55	31.44	0.63	4.50	9.76	9.38	4.12	28.38
Consumption	0.45	6.45	7.69	10.19	3.77	28.55	0.94	5.45	7.05	8.75	4.07	26.25
Balance	0.22	-1.53	2.64	0.78	0.78	2.89	-0.30	-0.96	2.72	0.63	0.05	2.13
MIDDLE EAST												
Production	58.57	32.58	110.65	83.22	26.10	311.11	61.92	34.55	118.74	86.77	27.88	329.86
Consumption	12.48	31.49	74.59	57.23	35.16	210.94	15.62	34.27	77.91	60.17	38.79	226.75
Balance	46.09	1.09	36.06	26.00	-9.06	100.17	46.30	0.28	40.83	26.60	-10.90	103.10
Iran												
Production	4.98	7.65	25.98	21.94	6.52	67.07	5.73	9.73	30.73	27.48	6.44	80.12
Consumption	3.21	8.93	29.05	14.96	5.97	62.11	4.19	10.31	27.91	13.26	5.24	60.92
Balance	1.78	-1.27	-3.08	6.99	0.55	4.96	1.54	-0.57	2.82	14.22	1.19	19.20
Iraq												
Production	1.15	2.93	8.13	6.35	5.01	23.55	1.20	2.96	8.21	6.28	4.20	22.84
Consumption	1.15	2.86	6.68	6.50	4.61	21.80	1.20	2.99	6.98	5.90	4.70	21.76
Balance	0.00	0.07	1.44	-0.15	0.39	1.75	0.00	-0.03	1.24	0.38	-0.50	1.09
Kuwait												
Production	10.27	1.95	17.32	9.58	4.18	43.31	11.43	1.97	20.39	11.05	5.67	50.51
Consumption	0.94	1.56	0.97	3.59	2.19	9.24	1.00	1.69	1.12	6.04	4.49	14.34
Balance	9.34	0.40	16.35	5.99	1.99	34.06	10.44	0.28	19.26	5.01	1.19	36.17
Saudi Arabia												
Production	27.79	11.14	33.92	27.35	6.03	106.23	26.43	11.71	33.00	24.78	6.39	102.31
Consumption	4.19	9.26	18.47	8.28	18.11	58.31	5.52	9.92	19.93	11.30	19.44	66.12
Balance	23.60	1.88	15.45	19.07	-12.08	47.92	20.92	1.79	13.06	13.48	-13.05	36.19
United Arab Emirates												
Production	8.36	1.46	5.81	2.52	0.58	18.72	9.96	1.46	6.24	2.01	0.58	20.24
Consumption	0.65	1.51	5.86	12.31	0.29	20.62	0.66	1.60	6.15	11.73	0.39	20.52
Balance	7.71	-0.05	-0.05	-9.79	0.28	-1.90	9.30	-0.14	0.09	-9.72	0.20	-0.27
Others Middle East												
Production	6.01	7.44	19.51	15.48	3.80	52.23	7.16	6.72	20.18	15.17	4.60	53.83
Consumption	2.35	7.38	13.56	11.59	3.98	38.86	3.05	7.77	15.82	11.94	4.53	43.11
Balance	3.67	0.06	5.95	3.89	-0.19	13.37	4.11	-1.05	4.36	3.23	0.08	10.73

Oil products balances / Bilancio dei prodotti petroliferi

Paesi
(milioni di tonnellate)

2003						2007						
LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	
EUROPE												
Ukraine												
0.85	4.31	7.59	7.97	0.67	21.39	0.64	4.23	5.43	3.81	1.13	15.25	Production
0.60	4.08	5.45	0.62	2.97	13.72	0.61	4.06	6.44	0.60	2.63	14.34	Consumption
0.25	0.23	2.14	7.35	-2.30	7.67	0.03	0.17	-1.01	3.21	-1.50	0.91	Balance
United Kingdom												
12.54	23.63	34.85	2.85	11.67	85.55	10.60	21.87	34.99	3.01	11.43	81.89	Production
6.44	19.96	39.27	2.41	12.01	80.09	6.90	17.93	45.42	3.32	11.19	84.75	Consumption
6.10	3.66	-4.42	0.44	-0.34	5.46	3.70	3.94	-10.43	-0.32	0.24	-2.86	Balance
Others Europe												
19.73	37.71	69.16	25.12	17.47	169.19	22.83	40.11	75.28	21.09	19.47	178.77	Production
17.02	36.43	87.74	28.06	26.52	195.77	19.75	36.16	96.11	24.96	28.27	205.26	Consumption
2.71	1.28	-18.58	-2.94	-9.06	-26.58	3.09	3.94	-20.83	-3.87	-8.81	-26.48	Balance
CENTRAL ASIA												
2.04	6.53	10.63	8.44	2.84	30.48	2.46	7.43	12.29	9.56	4.51	36.24	Production
0.76	6.59	6.88	6.89	5.34	26.46	1.09	8.49	9.35	6.63	6.30	31.84	Consumption
1.28	-0.06	3.75	1.55	-2.51	4.02	1.37	-1.06	2.94	2.93	-1.79	4.40	Balance
MIDDLE EAST												
71.41	37.84	125.93	82.62	30.45	348.25	81.68	47.73	139.36	82.69	34.58	386.04	Production
23.18	42.84	87.49	65.29	35.36	254.15	29.85	54.21	101.43	71.48	45.56	302.53	Consumption
48.23	-5.00	38.44	17.34	-4.91	94.11	51.83	-6.48	37.93	11.21	-10.98	83.51	Balance
Iran												
6.84	10.78	30.74	26.05	5.96	80.37	11.21	11.50	33.53	25.68	6.27	88.18	Production
5.00	15.18	29.37	13.59	3.47	66.62	8.26	20.23	34.66	14.67	5.57	83.38	Consumption
1.84	-4.41	1.37	12.46	2.49	13.75	2.95	-8.72	-1.13	11.01	0.70	4.80	Balance
Iraq												
0.85	3.10	8.25	6.43	4.41	23.04	1.54	3.59	8.26	6.51	3.41	23.31	Production
1.21	3.04	7.22	6.15	4.76	22.37	1.81	5.30	9.29	6.96	7.10	30.46	Consumption
-0.36	0.06	1.03	0.28	-0.35	0.66	-0.27	-1.70	-1.03	-0.45	-3.70	-7.16	Balance
Kuwait												
11.09	1.35	18.82	9.74	6.00	47.01	10.60	2.89	20.40	11.32	6.11	51.32	Production
1.14	1.88	1.70	7.29	4.47	16.48	1.40	2.25	1.95	10.45	4.52	20.56	Consumption
9.95	-0.53	17.12	2.45	1.53	30.53	9.21	0.63	18.45	0.88	1.59	30.76	Balance
Saudi Arabia												
28.66	12.65	37.15	25.59	6.92	110.96	31.77	15.32	42.53	26.04	10.89	126.55	Production
10.52	11.41	23.29	16.51	16.35	78.08	12.46	13.92	26.80	16.58	20.54	90.29	Consumption
18.14	1.24	13.87	9.08	-9.44	32.88	19.32	1.40	15.72	9.47	-9.64	36.27	Balance
United Arab Emirates												
14.83	1.50	10.06	1.17	1.89	29.45	14.89	2.99	11.15	1.88	2.01	32.91	Production
1.36	3.10	7.32	10.95	1.09	23.82	1.75	3.32	8.05	13.49	1.25	27.85	Consumption
13.47	-1.60	2.74	-9.77	0.81	5.63	13.15	-0.33	3.09	-11.62	0.76	5.06	Balance
Others Middle East												
9.14	8.48	20.90	13.64	5.27	57.43	11.67	11.44	23.50	11.27	5.90	63.78	Production
3.94	8.23	18.59	10.80	5.22	46.78	4.19	9.20	20.67	9.34	6.58	49.98	Consumption
5.20	0.25	2.31	2.85	0.04	10.65	7.49	2.24	2.83	1.93	-0.68	13.80	Balance

Oil products balances / Bilancio dei prodotti petroliferi

Countries

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
AFRICA												
Production	17.99	19.56	43.21	36.20	3.64	120.59	24.44	18.00	45.21	38.39	3.41	129.45
Consumption	6.11	22.96	43.76	25.77	10.21	108.82	7.77	23.18	48.99	25.25	11.16	116.35
Balance	11.88	-3.40	-0.55	10.43	-6.57	11.78	16.66	-5.18	-3.78	13.14	-7.75	13.10
Algeria												
Production	9.32	2.34	7.26	4.98	0.84	24.73	12.74	2.38	7.78	5.68	1.53	30.11
Consumption	1.52	2.02	3.35	0.25	1.43	8.58	1.71	1.90	3.77	0.18	1.82	9.37
Balance	7.79	0.31	3.90	4.73	-0.59	16.15	11.03	0.49	4.01	5.50	-0.29	20.73
Egypt												
Production	4.18	2.15	7.85	12.88	2.23	29.29	4.57	2.19	8.11	12.31	2.47	29.66
Consumption	1.66	2.01	8.36	10.35	2.23	24.60	2.31	2.26	9.65	11.21	2.48	27.91
Balance	2.52	0.14	-0.51	2.54	0.00	4.69	2.26	-0.07	-1.53	1.10	-0.01	1.75
Nigeria												
Production	0.11	2.63	3.65	2.33	1.46	10.17	1.45	1.66	3.09	2.82	1.33	10.36
Consumption	0.03	3.99	4.45	2.60	1.31	12.37	0.12	3.15	3.33	0.56	1.16	8.32
Balance	0.08	-1.36	-0.80	-0.27	0.15	-2.20	1.33	-1.49	-0.23	2.26	0.17	2.04
South Africa												
Production	0.30	7.95	9.02	3.65	-3.72	17.20	0.33	7.77	9.89	5.35	-5.12	18.20
Consumption	0.29	7.82	7.20	3.49	2.17	20.97	0.33	8.04	7.81	3.41	2.08	21.66
Balance	0.01	0.13	1.82	0.16	-5.90	-3.77	0.00	-0.27	2.08	1.94	-7.20	-3.46
Others Africa												
Production	4.09	4.50	15.44	12.35	2.84	39.21	5.35	4.00	16.35	12.22	3.20	41.12
Consumption	2.61	7.12	20.40	9.09	3.07	42.30	3.31	7.83	24.44	9.88	3.62	49.08
Balance	1.47	-2.63	-4.97	3.26	-0.24	-3.09	2.04	-3.83	-8.10	2.34	-0.42	-7.96
ASIA AND THE PACIFIC												
Production	79.22	129.37	317.35	154.33	111.68	791.95	99.63	139.88	355.92	143.78	121.13	860.34
Consumption	122.27	130.01	353.81	182.24	121.10	909.42	149.38	140.17	380.07	184.38	126.76	980.76
Balance	-43.05	-0.63	-36.46	-27.92	-9.42	-117.47	-49.75	-0.29	-24.15	-40.60	-5.63	-120.42
Australia												
Production	3.59	13.61	15.38	-1.31	3.06	34.33	3.63	13.88	15.78	-0.78	4.42	36.93
Consumption	2.50	13.12	14.41	2.03	3.85	35.92	2.41	13.38	15.32	1.80	5.31	38.22
Balance	1.09	0.49	0.96	-3.34	-0.80	-1.59	1.21	0.50	0.46	-2.58	-0.89	-1.30
China												
Production	10.45	32.60	49.20	22.01	37.80	152.06	18.84	37.33	68.37	16.77	41.12	182.43
Consumption	16.62	31.76	56.70	33.57	32.25	170.90	23.02	33.84	73.85	34.59	35.72	201.02
Balance	-6.17	0.84	-7.49	-11.56	5.55	-18.84	-4.18	3.49	-5.48	-17.82	5.40	-18.59
India												
Production	10.38	4.70	31.84	10.30	9.68	66.91	11.35	6.23	44.44	11.35	18.38	91.75
Consumption	9.10	4.96	50.56	11.60	8.57	84.78	14.63	5.91	57.41	12.52	11.19	101.65
Balance	1.28	-0.25	-18.72	-1.30	1.11	-17.88	-3.28	0.32	-12.96	-1.17	7.19	-9.90
Indonesia												
Production	7.53	7.26	20.67	10.46	5.73	51.65	5.10	7.95	21.67	9.89	4.55	49.15
Consumption	2.37	7.44	26.58	3.78	2.88	43.05	2.94	8.50	28.57	5.21	3.01	48.21
Balance	5.16	-0.18	-5.91	6.67	2.85	8.60	2.16	-0.55	-6.90	4.68	1.55	0.94

Oil products balances / Bilancio dei prodotti petroliferi

Paesi
(milioni di tonnellate)

	2003						2007						
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	
	26.87	20.38	47.55	35.10	10.86	140.76	29.32	21.08	50.63	33.04	9.99	144.06	Production
	9.37	27.24	56.73	21.23	12.04	126.61	11.67	30.17	65.05	23.44	11.96	142.29	Consumption
	17.50	-6.86	-9.18	13.86	-1.18	14.15	17.66	-9.08	-14.42	9.59	-1.97	1.77	Balance
Algeria													
	14.30	1.89	7.51	6.16	1.63	31.50	13.08	2.34	7.41	5.35	1.59	29.77	Production
	1.84	1.85	5.25	0.16	1.47	10.58	2.33	1.91	6.32	0.32	1.69	12.58	Consumption
	12.45	0.04	2.26	6.00	0.16	20.92	10.75	0.43	1.09	5.03	-0.10	17.19	Balance
Egypt													
	4.32	4.52	11.06	10.58	4.42	34.90	4.72	4.32	12.36	9.71	3.21	34.32	Production
	3.29	2.52	10.72	7.46	2.86	26.86	4.07	3.16	12.68	9.97	3.01	32.89	Consumption
	1.03	2.00	0.34	3.12	1.56	8.04	0.65	1.16	-0.32	-0.26	0.20	1.43	Balance
Nigeria													
	2.21	1.00	2.30	1.80	0.80	8.10	3.42	0.29	0.95	1.00	0.37	6.04	Production
	0.08	6.38	4.10	1.19	0.96	12.71	0.17	6.72	3.99	0.70	0.51	12.09	Consumption
	2.13	-5.39	-1.80	0.60	-0.16	-4.61	3.25	-6.43	-3.04	0.30	-0.14	-6.06	Balance
South Africa													
	0.38	8.41	10.09	5.16	1.30	25.34	0.35	8.54	9.85	4.20	1.47	24.40	Production
	0.35	7.89	8.64	2.89	2.93	22.71	0.39	8.45	10.28	2.63	2.61	24.35	Consumption
	0.03	0.52	1.45	2.27	-1.64	2.63	-0.04	0.09	-0.43	1.57	-1.14	0.05	Balance
Others Africa													
	5.67	4.56	16.60	11.40	2.70	40.93	7.75	5.60	20.06	12.78	3.34	49.53	Production
	3.80	8.59	28.02	9.53	3.81	53.75	4.71	9.93	31.77	9.83	4.13	60.38	Consumption
	1.87	-4.03	-11.43	1.87	-1.10	-12.82	3.04	-4.33	-11.71	2.95	-0.80	-10.85	Balance
ASIA AND THE PACIFIC													
	122.37	161.32	401.17	130.79	144.30	959.96	158.08	182.26	476.23	129.32	157.60	1,103.50	Production
	182.88	157.18	409.79	172.69	147.29	1,069.83	220.54	180.22	459.23	166.47	167.96	1,194.43	Consumption
	-60.50	4.14	-8.62	-41.90	-2.98	-109.87	-62.46	2.04	17.00	-37.15	-10.36	-90.93	Balance
Australia													
	3.55	13.21	16.17	-1.40	4.76	36.29	4.28	12.65	13.88	-1.20	3.41	33.03	Production
	2.53	13.97	17.14	2.10	5.09	40.82	2.61	14.17	18.92	2.23	4.37	42.31	Consumption
	1.02	-0.75	-0.97	-3.51	-0.32	-4.53	1.67	-1.52	-5.04	-3.43	-0.96	-9.28	Balance
China													
	28.42	48.01	97.19	16.82	49.70	240.13	45.53	60.59	140.43	18.86	61.48	326.90	Production
	33.37	40.82	96.23	38.16	50.05	258.64	51.41	55.80	142.21	38.45	65.90	353.76	Consumption
	-4.95	7.19	0.96	-21.34	-0.36	-18.50	-5.88	4.79	-1.78	-19.59	-4.41	-26.87	Balance
India													
	19.83	10.85	59.45	13.37	25.80	129.31	26.17	12.01	75.65	15.45	25.20	154.48	Production
	21.67	7.90	53.65	12.99	19.01	115.22	24.30	9.80	61.00	12.24	23.36	130.70	Consumption
	-1.83	2.95	5.80	0.38	6.79	14.09	1.87	2.20	14.66	3.21	1.84	23.78	Balance
Indonesia													
	5.44	8.35	21.82	9.92	5.83	51.37	6.61	7.82	21.82	7.93	5.75	49.92	Production
	3.10	10.80	34.36	6.20	3.63	58.09	5.84	13.76	33.77	4.75	3.43	61.54	Consumption
	2.35	-2.45	-12.54	3.72	2.20	-6.72	0.77	-5.94	-11.95	3.18	2.32	-11.62	Balance

Oil products balances / Bilancio dei prodotti petroliferi

Countries

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
ASIA AND THE PACIFIC												
Japan												
Production	16.44	38.47	92.34	38.07	22.21	207.54	17.43	41.48	91.52	34.46	20.52	205.40
Consumption	53.47	39.01	96.46	37.90	46.81	273.65	54.24	42.11	95.10	35.61	43.09	270.15
Balance	-37.03	-0.54	-4.12	0.18	-24.60	-66.11	-36.81	-0.64	-3.58	-1.14	-22.57	-64.75
Malaysia												
Production	3.28	2.88	7.30	3.73	3.87	21.05	4.14	2.91	7.47	2.62	3.89	21.03
Consumption	1.71	4.96	8.42	4.31	1.03	20.43	1.99	6.47	8.35	3.09	1.39	21.29
Balance	1.57	-2.08	-1.13	-0.59	2.84	0.61	2.15	-3.56	-0.88	-0.47	2.50	-0.26
Singapore												
Production	6.29	5.86	23.92	8.93	10.42	55.41	7.24	3.94	19.20	5.87	8.19	44.43
Consumption	2.64	0.67	5.17	18.12	3.82	30.42	4.73	0.65	5.49	23.50	3.48	37.84
Balance	3.65	5.19	18.75	-9.19	6.59	24.99	2.51	3.29	13.71	-17.62	4.71	6.60
South Korea												
Production	11.87	8.33	41.18	31.50	8.58	101.46	18.72	9.23	48.10	33.10	9.28	118.42
Consumption	22.64	8.04	37.35	27.99	10.87	106.88	29.19	7.55	31.72	23.25	9.96	101.67
Balance	-10.77	0.29	3.83	3.51	-2.30	-5.43	-10.47	1.68	16.38	9.85	-0.68	16.75
Taiwan												
Production	4.32	4.52	7.13	13.22	2.86	32.04	4.88	5.17	8.73	14.08	3.77	36.63
Consumption	5.82	6.27	6.77	14.26	3.72	36.84	6.27	6.98	7.68	16.41	4.51	41.84
Balance	-1.50	-1.75	0.36	-1.04	-0.86	-4.80	-1.39	-1.81	1.06	-2.33	-0.74	-5.21
Thailand												
Production	2.72	5.81	14.73	7.89	3.39	34.53	5.75	6.36	16.98	7.17	3.33	39.59
Consumption	2.95	5.05	17.87	9.10	3.08	38.05	6.95	5.20	15.60	7.49	5.13	40.36
Balance	-0.24	0.76	-3.15	-1.21	0.31	-3.52	-1.20	1.16	1.38	-0.31	-1.80	-0.77
Others Asia and the Pacific												
Production	2.35	5.34	13.67	9.54	4.10	34.99	2.57	5.42	13.66	9.24	3.69	34.57
Consumption	2.45	8.74	33.50	19.59	4.21	68.49	3.01	9.59	41.00	20.93	3.98	78.50
Balance	-0.10	-3.41	-19.84	-10.04	-0.12	-33.50	-0.44	-4.17	-27.34	-11.69	-0.28	-43.93

Paesi
(milioni di tonnellate)

2003						2007						
LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	
ASIA AND THE PACIFIC												
Japan												
17.87	43.08	87.32	32.28	21.78	202.33	21.40	42.75	83.46	27.36	19.03	194.00	Production
52.87	44.51	92.42	33.01	38.15	260.97	54.74	44.24	78.15	26.37	37.73	241.24	Consumption
-35.01	-1.43	-5.09	-0.74	-16.37	-58.64	-33.34	-1.49	5.30	0.99	-18.70	-47.24	Balance
Malaysia												
6.73	4.36	12.19	1.78	5.23	30.29	7.00	4.82	12.51	2.37	4.08	30.77	Production
4.43	7.01	10.84	1.58	1.27	25.12	5.25	8.42	12.77	1.49	1.30	29.24	Consumption
2.30	-2.64	1.35	0.20	3.96	5.17	1.74	-3.60	-0.26	0.87	2.78	1.53	Balance
Singapore												
5.24	3.35	17.81	4.02	7.08	37.50	5.61	7.25	23.03	6.15	11.46	53.50	Production
5.55	0.68	6.27	22.23	3.27	38.00	6.80	0.73	7.89	23.38	3.74	42.53	Consumption
-0.31	2.67	11.54	-18.21	3.82	-0.50	-1.19	6.52	15.14	-17.23	7.73	10.97	Balance
South Korea												
17.16	8.99	42.70	27.72	9.66	106.24	20.73	9.66	50.05	28.83	10.73	120.00	Production
33.32	7.09	31.50	22.85	9.75	104.52	37.80	7.20	30.43	20.54	10.08	106.04	Consumption
-16.15	1.89	11.20	4.87	-0.09	1.72	-17.06	2.47	19.62	8.29	0.65	13.96	Balance
Taiwan												
5.68	9.31	12.30	12.58	6.06	45.93	6.77	11.95	17.58	9.64	7.07	53.00	Production
12.26	7.55	7.57	12.36	5.48	45.21	16.73	7.89	8.80	11.11	5.76	50.30	Consumption
-6.58	1.76	4.73	0.22	0.58	0.71	-9.96	4.07	8.77	-1.48	1.31	2.70	Balance
Thailand												
9.03	6.38	19.78	5.57	4.86	45.61	10.38	7.05	22.58	5.23	6.20	51.43	Production
9.62	5.65	17.83	5.15	7.65	45.90	10.53	5.37	19.51	5.17	8.63	49.20	Consumption
-0.60	0.73	1.95	0.42	-2.79	-0.29	-0.15	1.68	3.07	0.06	-2.43	2.23	Balance
Others Asia and the Pacific												
3.42	5.43	14.44	8.15	3.53	34.96	3.60	5.71	15.27	8.72	3.18	36.48	Production
4.16	11.20	41.99	16.06	3.94	77.35	4.54	12.84	45.79	20.74	3.67	87.57	Consumption
-0.74	-5.77	-27.56	-7.92	-0.41	-42.39	-0.93	-7.14	-30.52	-12.02	-0.48	-51.10	Balance

Oil products balances / Bilancio dei prodotti petroliferi

Countries

(million tons)

	1996						1999					
	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL
AMERICAS												
Production	101.46	428.96	363.21	115.81	170.39	1,179.82	112.79	453.72	379.08	112.71	180.65	1,238.95
Consumption	103.75	441.85	363.27	115.79	173.67	1,198.33	118.17	467.11	391.39	119.84	191.45	1,287.96
Balance	-2.30	-12.90	-0.06	0.03	-3.28	-18.51	-5.38	-13.39	-12.31	-7.13	-10.80	-49.02
Argentina												
Production	2.90	5.23	10.89	1.42	5.16	25.60	3.93	5.86	12.52	1.97	5.07	29.34
Consumption	1.70	4.71	10.84	1.76	3.86	22.86	1.86	3.85	11.85	1.54	5.04	24.15
Balance	1.20	0.52	0.05	-0.34	1.30	2.74	2.07	2.01	0.67	0.43	0.02	5.19
Brazil												
Production	8.49	23.24	25.44	12.80	-2.48	67.50	11.54	24.40	29.15	16.13	-0.27	80.95
Consumption	13.18	23.35	29.54	13.18	-0.34	78.91	17.15	23.62	34.36	13.72	1.99	90.84
Balance	-4.69	-0.11	-4.10	-0.38	-2.13	-11.41	-5.61	0.78	-5.21	2.42	-2.27	-9.88
Canada												
Production	13.40	29.40	32.35	5.87	9.13	90.14	13.08	31.11	32.95	5.79	12.10	95.03
Consumption	7.65	26.17	27.65	4.98	17.37	83.82	6.98	28.36	29.20	6.45	18.94	89.92
Balance	5.75	3.23	4.70	0.89	-8.24	6.32	6.10	2.76	3.76	-0.66	-6.84	5.11
Mexico												
Production	9.68	17.37	15.46	20.95	13.53	76.97	10.12	16.35	15.66	21.45	15.58	79.15
Consumption	9.53	20.20	15.28	23.02	11.85	79.88	10.52	20.98	17.40	26.53	11.36	86.79
Balance	0.15	-2.83	0.17	-2.07	1.67	-2.91	-0.41	-4.63	-1.75	-5.09	4.23	-7.64
United States												
Production	54.76	321.50	230.51	32.36	119.81	758.92	60.43	340.14	238.88	31.64	115.83	786.92
Consumption	63.53	339.55	244.54	46.62	123.49	817.73	73.04	361.77	260.27	45.50	136.99	877.56
Balance	-8.78	-18.05	-14.03	-14.27	-3.68	-58.81	-12.61	-21.63	-21.39	-13.85	-21.16	-90.64
Venezuela												
Production	6.89	12.64	17.85	12.84	6.02	56.23	7.76	14.85	18.58	10.82	9.67	61.68
Consumption	2.60	8.93	4.79	1.22	5.68	23.21	2.05	8.69	4.64	1.34	4.44	21.16
Balance	4.29	3.71	13.07	11.62	0.33	33.02	5.71	6.16	13.93	9.47	5.23	40.51
Others Americas												
Production	5.36	19.59	30.70	29.59	19.23	104.46	5.94	21.01	31.34	24.92	22.68	105.88
Consumption	5.57	18.94	30.64	25.01	11.77	91.93	6.57	19.84	33.68	24.76	12.70	97.55
Balance	-0.21	0.65	0.07	4.57	7.46	12.53	-0.64	1.17	-2.33	0.15	9.98	8.33

Oil products balances / Bilancio dei prodotti petroliferi

Paesi
(milioni di tonnellate)

2003						2007						
LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	LPG / Naphta	Gasoline	Middle distillates	Fuel oil	Other products	TOTAL	
AMERICAS												
108.98	471.52	390.04	112.70	182.79	1,266.02	107.62	475.74	412.96	113.71	173.88	1,283.92	Production
116.63	491.74	405.00	108.82	182.85	1,305.03	114.89	522.15	439.65	100.62	167.95	1,345.27	Consumption
-7.66	-20.22	-14.96	3.88	-0.06	-39.02	-7.27	-46.41	-26.69	13.09	5.93	-61.35	Balance
Argentina												
5.15	4.64	11.24	1.71	6.66	29.40	5.40	4.53	12.96	3.18	6.29	32.37	Production
1.91	2.50	10.08	0.86	4.35	19.71	2.03	3.36	11.94	2.06	4.57	23.96	Consumption
3.24	2.14	1.16	0.85	2.31	9.69	3.37	1.17	1.02	1.12	1.72	8.41	Balance
Brazil												
11.74	22.94	32.35	15.42	0.86	83.29	12.35	28.51	35.63	13.25	-0.02	89.73	Production
15.14	21.43	35.89	9.62	5.63	87.71	16.03	25.15	37.43	8.93	3.69	91.23	Consumption
-3.41	1.51	-3.55	5.80	-4.77	-4.41	-3.68	3.36	-1.80	4.33	-3.70	-1.50	Balance
Canada												
13.12	35.04	36.12	7.68	12.41	104.36	13.14	31.62	36.42	9.23	12.25	102.66	Production
7.36	29.77	30.15	8.74	22.22	98.23	8.90	30.36	32.87	6.24	21.96	100.32	Consumption
5.76	5.27	5.97	-1.05	-9.81	6.14	4.24	1.26	3.55	3.00	-9.71	2.34	Balance
Mexico												
10.22	18.83	17.26	19.79	17.48	83.58	10.82	19.48	18.58	18.54	17.59	85.01	Production
10.96	25.57	18.17	19.94	11.61	86.24	10.82	31.61	21.39	15.04	13.46	92.32	Consumption
-0.74	-6.74	-0.91	-0.15	5.88	-2.66	0.00	-12.14	-2.81	3.50	4.13	-7.32	Balance
United States												
55.90	357.37	245.58	31.07	118.36	808.28	49.75	358.20	254.83	25.21	112.52	800.52	Production
73.20	383.17	271.12	42.32	120.23	890.02	67.26	400.09	288.92	38.54	105.00	899.82	Consumption
-17.29	-25.80	-25.54	-11.25	-1.86	-81.74	-17.51	-41.89	-34.09	-13.33	7.52	-99.30	Balance
Venezuela												
6.25	11.73	14.54	11.02	4.81	48.35	7.62	11.30	16.55	15.11	6.37	56.95	Production
1.88	9.87	5.28	2.32	3.71	23.06	2.59	10.58	7.00	2.69	4.27	27.14	Consumption
4.37	1.85	9.27	8.70	1.09	25.28	5.03	0.72	9.55	12.42	2.10	29.82	Balance
Others Americas												
6.61	20.98	32.95	26.01	22.21	108.75	8.54	22.10	37.99	29.19	18.87	116.69	Production
6.19	19.42	34.31	25.03	15.11	100.07	7.27	20.99	40.11	27.12	15.00	110.49	Consumption
0.41	1.56	-1.36	0.98	7.10	8.69	1.27	1.11	-2.12	2.07	3.87	6.20	Balance

Notes and methods

- The source of the data is Parpinelli-TECNON.
 - Measurement units used are: thousand barrels per day and million tons per year.
 - Total may differ from the sum of the individual figures as a result of rounding up/down.
 - “**Refining industry**” is divided in two parts: “Refining capacity” and “Oil products balances”.
 - The “**Refining capacity**” set of tabulations provides the following information:
 - Number of refineries: includes asphalt and lube oriented units, when dedicated topping capacity is present. Includes condensate refineries.
 - Primary capacity: topping capacity of units included in Number of refineries.
 - Conversion capacity (FCC eqv.): sum of fuel oil conversion capacity, converted to “Catcracking (FCC) equivalent” capacity. “FCC equivalent” capacity equals 1; other conversion capacities can be higher or lower than 1.
- The equivalent factors, reported below, change according to the type and the configuration of the conversion unit and are from Parpinelli-TECNON.

Conversion type	Configuration	Conversion factor to FCC eqv.
ASPHALT	ASPHALT	0.25
CATCRACKING	DCC	1.1
CATCRACKING	FCC	1
CATCRACKING	FCC-Resid	1.9
CATCRACKING	TCC	0.8
COKING	COKING-Delayed	1.35
COKING	COKING-Fluid	1.35
COKING	COKING-F/D	1.35
COKING	COKING-FXC	1.35
DESULF- Resid	HDS- Resid	0.2
DESULF-VGO	HDS-VGO	0.05
HYDROCRACKING	HYDROC-Distillates	1.3
HYDROCRACKING	HYDROC-Mild	0.3
HYDROCRACKING	HYDROC- Resid	0.4
LUBE	LUBE	0.5
OTHER	DDW	0.1
OTHER	OTHER	0.1
OTHERCONV	HYRES-GAS	1.3
OTHERCONV	OTHERCONV	0.1
THERMALCRACKING	THERMALCRACKING	0.65
VISBREAKING	VISBREAKING	0.25

- Complexity ratio (%): ratio of Conversion capacity (converted to FCC Equivalent) over Primary capacity, calculated on a weight basis.
- Crude runs: includes condensates runs.
- Utilization of primary capacity (%): ratio of Crude runs over Primary capacity.
- The “**Oil products balances**” set of tabulations provides the following information:
 - Production: refinery output, net of refinery feedstocks requirements, plus liquids derived from natural gas processing (NGLs).
 - Consumption: includes bunkers.
 - Balance: it is the difference between Production and Consumption and corresponds to the net exports. It therefore includes: stock changes, statistical differences, refinery losses and other items included in Consumption.

Riferimenti e metodologie

- I dati sono di fonte Parpinelli-TECNON.
- Le unità di misura adottate sono: migliaia di barili/giorno e milioni di tonnellate/anno.
- I totali possono differire dalla somma dei singoli numeri a causa degli arrotondamenti.
- “**Industria della raffinazione**” si articola in due parti: “Capacità di raffinazione” e “Bilancio dei prodotti petroliferi”.
 - Nella “**Capacità di raffinazione**” sono definiti:
 - Number of refineries: include le unità che processano asfalto e lubrificanti, quando è presente topping capacity. Include, inoltre, le unità che raffinano i condensati.
 - Primary capacity: topping capacity delle unità incluse nel Number of refineries.
 - Conversion capacity (FCC eqv.): è la somma delle capacità di conversione dell'olio combustibile, convertite a capacità “Catcracking (FCC) equivalent”. La capacità “FCC equivalent” è 1; si possono però avere valori maggiori e minori di 1. I fattori di equivalenza utilizzati, riportati nello schema sottostante, variano secondo la tipologia di unità di conversione e la relativa configurazione e sono di fonte Parpinelli-TECNON.

Tipologia di conversione	Configurazione	Fattore di conversione a FCC eqv.
ASPHALT	ASPHALT	0,25
CATCRACKING	DCC	1,1
CATCRACKING	FCC	1
CATCRACKING	FCC-Resid	1,9
CATCRACKING	TCC	0,8
COKING	COKING-Delayed	1,35
COKING	COKING-Fluid	1,35
COKING	COKING-F/D	1,35
COKING	COKING-FXC	1,35
DESULF- Resid	HDS- Resid	0,2
DESULF-VGO	HDS-VGO	0,05
HYDROCRACKING	HYDROC-Distillates	1,3
HYDROCRACKING	HYDROC-Mild	0,3
HYDROCRACKING	HYDROC- Resid	0,4
LUBE	LUBE	0,5
OTHER	DDW	0,1
OTHER	OTHER	0,1
OTHERCONV	HYRES-GAS	1,3
OTHERCONV	OTHERCONV	0,1
THERMALCRACKING	THERMALCRACKING	0,65
VISBREAKING	VISBREAKING	0,25

- Complexity ratio (%): rapporto della Conversion capacity (converted to FCC equivalent) sulla Primary capacity, calcolato con i fattori di ponderazione.
- Crude runs: include i condensati.
- Utilization of primary capacity (%): è il rapporto dei Crude runs sulla Primary capacity.
- Nel “**Bilancio dei prodotti petroliferi**” sono definiti:
 - Production: è calcolata considerando l'output della raffineria al netto dei ‘Refinery feedstocks’, cui si aggiungono i liquidi di gas naturale (NGLs).
 - Consumption: include i bunkeraggi.
 - Balance: è calcolato come differenza tra Production e Consumption, rappresentando le esportazioni nette. Comprende quindi voci quali: variazioni scorte, differenze statistiche, perdite di raffinazione ed altro, incluse nel Consumption.



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Capital Stock: € 4,005,358,876.00 fully paid up
Rome Companies Register Tax Identification Number 00484960588

Branches

Via Emilia, 1 - San Donato Milanese (MI) - Italy
Piazza Ezio Vanoni, 1 - San Donato Milanese (MI) - Italy

Web site

www.eni.it

Produced by

Eni SpA

Design

Korus – Rome

Cover

Photo from Eni's archive – Niger Delta

Layout and supervision

Korus – Rome

Printing

Marchesi Grafiche Editoriali SpA – Rome

Printed on environment friendly paper Fedrigoni Freelifa Cento Extra White



July 2008