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Exploration and Production


Exploration and Production

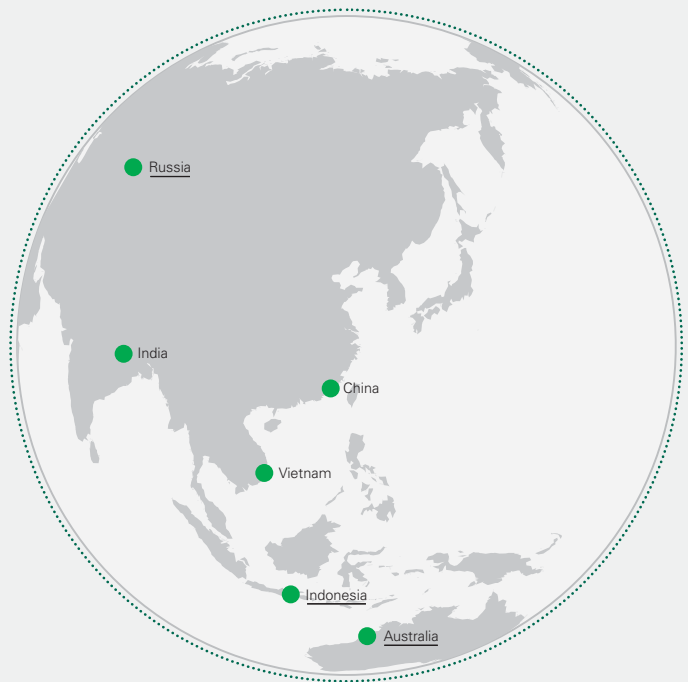
BP's Exploration and Production business finds, produces and transports oil and gas to market. We operate in 29 countries and employ more than 20,000 people. Our strategy is to invest to grow production efficiently by:

- Focusing on accessing, finding and developing the largest fields in the world's most prolific hydrocarbon basins.
- Building leadership positions in these areas.
- Using technology to improve productivity and support new access.
- Managing the decline of existing producing assets.

Upstream activities involve oil and natural gas exploration and field development and production. In 2008, BP participated in three of the 14 major discoveries reported globally. We strengthened our position in a number of our core growth areas, including the Gulf of Mexico, Egypt and Angola. Exploration success also played a significant role in the renewal of our more mature areas, with two discoveries in the UK North Sea. Progressing these discoveries into projects and then start-ups will enable us to maintain our track record of reserves replacement. We also extended our track record of major project start-ups, with nine new major projects coming onstream, including Thunder Horse in the Gulf of Mexico and our Deepwater Gunashli platform in Azerbaijan.



 **E&P major projects in more detail**
www.bp.com/upstreammajorprojects



These maps illustrate our Exploration and Production operations around the world. For more information on Exploration and Production major projects, simply click on the relevant hyperlink. The links will take you to content on *bp.com* that does not form part of *Financial and Operating Information 2004-2008*.

Key indicators^a

	2004	2005	2006	2007	2008
Result and oil price					
Replacement cost profit before interest and tax (\$ billion) ^b	18.98	26.31	31.03	27.60	38.31
BP average liquids realizations (\$/bbl) ^c	35.39	48.51	59.23	67.45	90.20
Finding and development costs (\$ per barrel of oil equivalent (\$/boe), five-year rolling average) ^d	4.65	5.79	8.76	13.64	16.41
Finding costs (\$/boe, five-year rolling average) ^d	0.81	0.92	1.53	2.33	3.56
Lifting costs (\$/boe)	3.41	4.28	5.31	6.63	6.68
Cost of supply (\$/boe) ^e	9.54	10.44	12.51	14.81	15.46
Net income per barrel of oil equivalent (\$/boe)					
BP subsidiaries and equity-accounted entities (\$/boe)	8.40	12.51	11.91	12.62	17.67
BP subsidiaries and equity-accounted entities excluding TNK-BP (\$/boe)	9.46	14.26	13.26	14.43	21.14
Range of other oil majors					
Maximum (\$/boe)	10.81	15.32	16.96	17.14	23.23
Minimum (\$/boe)	7.31	9.74	11.24	12.35	17.68
Reserves replacement					
BP subsidiaries (%) ^f	106	71	34	44	116^g
BP subsidiaries and equity-accounted entities (%) ^f	110	100	113	112	121^g
Range of other oil majors					
Maximum (%)	125	129	128	119	139
Minimum (%)	35	13	20	15	29

^a Except where indicated, all the data in this table relates to BP subsidiaries only.

^b Includes equity-accounted entities.

^c Crude oil and NGLs.

^d Reserves calculated on an SEC basis.

^e Cost of supply comprises exploration expense, lifting costs and depreciation, depletion and amortization.

^f Reserves replacement for 2006, 2007 and 2008 calculated on an SEC basis.

^g Under current SEC rules, BP's proved reserves estimates are based on prices and costs as of the date the estimate is made. There was a rapid and substantial decline in oil prices in the fourth quarter of 2008 that was not matched by a similar reduction in operating costs by the end of the year. BP does not expect that these economic conditions will continue. However, our 2008 reserves are calculated on the basis of operating activities that would be undertaken were year-end prices and costs to persist.

Financial statistics

	2004	2005	2006	2007	2008
					\$ million
Replacement cost profit before interest and tax					
US	7,221	10,118	10,002	7,929	11,724
Non-US	11,756	16,190	21,024	19,673	26,584
	18,977	26,308	31,026	27,602	38,308
Operating capital employed					
US	25,773	27,555	27,687	30,341	35,807
Non-US	43,141	45,330	49,601	54,278	56,950
	68,914	72,885	77,288	84,619	92,757
Sales and other operating revenues	49,600	61,893	67,950	65,740	86,170
Capital expenditure and acquisitions					
US	3,963	3,932	4,655	5,096	10,359
Non-US	7,449	6,466	8,597	9,111	11,868
	11,412	10,398	13,252	14,207	22,227
Employee numbers at year end	17,500	18,900	21,400	21,800	21,400
BP average realizations					
BP average liquids realizations (\$/bbl) ^a	35.39	48.51	59.23	67.45	90.20
BP average natural gas realizations (\$/mcf)	3.86	4.90	4.72	4.53	6.00
Marker prices					
Brent oil (\$/bbl)	38.27	54.48	65.14	72.39	97.26
Alaskan North Slope oil (\$/bbl)	38.96	53.55	63.57	71.68	98.86
West Texas Intermediate (\$/bbl)	41.49	56.58	66.02	72.20	100.06
Mars oil (\$/bbl)	n/a ^b	50.12	58.90	66.58	93.95
Henry Hub gas price (\$ per million British thermal units) ^c	6.13	8.65	7.24	6.86	9.04

^a Crude oil and NGLs.

^b Data not available for 2004.

^c Henry Hub First of Month Index.

TNK-BP operational and financial information

Production (BP share, net of royalties)

	2004	2005	2006	2007	2008
Crude oil (thousand barrels per day)	830	911	876	832	826
Natural gas (million cubic feet per day)	463	482	544	451	564
Total hydrocarbons (thousand barrels of oil equivalent per day (mboe/d)) ^a	910	994	970	910	923

Income statement (BP share)

	\$ million				
Profit before interest and tax	2,421	3,817	4,616	3,743	3,588
Finance costs*	(101)	(128)	(192)	(264)	(275)
Taxation	(675)	(976)	(1,467)	(993)	(882)
Minority interest	(43)	(104)	(193)	(215)	(169)
Profit for the year ^b	1,602	2,609	2,764	2,271	2,262
*Excludes unwinding of discount on deferred consideration	91	57	23	–	–

Balance sheet

	2004	2005	2006	2007	2008
Investment in jointly controlled entities	8,294	8,089	8,353	8,817	8,939
Deferred consideration					
Due within one year	1,227	1,227	–	–	–
Due after more than one year	1,194	–	–	–	–
	2,421	1,227	–	–	–

Cash flow

	2004	2005	2006	2007	2008
Acquisition of investment in TNK-BP joint venture	(1,250)	–	–	–	–
Dividends received	1,760	1,950	3,271	1,300	2,140
Dividends receivable ^c	–	771	–	–	–

Average oil marker prices

	\$ per barrel				
	2004	2005	2006	2007	2008
Urals (NWE – cif)	34.08	50.29	61.22	69.16	94.83
Russian domestic oil	20.61	28.77	34.39	39.81	45.59

^a Natural gas is converted to oil equivalent at 5.8 billion cubic feet (bcf) = 1 million barrels.

^b 2005 includes a net gain of \$270 million on the disposal of non-core producing assets in the Saratov region, along with the Orsk refinery. 2006 includes a net gain of \$892 million on the disposal of the Udmurtneft assets.

^c 2006 includes a \$771-million dividend declared in 2005.

Oil and natural gas exploration and production activities^a

	\$ million								
	2004								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Capitalized costs at 31 December									
Gross capitalized costs									
Proved properties	30,639	4,691	43,011	10,450	2,892	10,401	–	3,834	105,918
Unproved properties	300	170	1,395	456	1,240	526	119	105	4,311
	30,939	4,861	44,406	10,906	4,132	10,927	119	3,939	110,229
Accumulated depreciation	20,780	2,794	19,713	5,546	1,350	5,573	–	1,014	56,770
Net capitalized costs	10,159	2,067	24,693	5,360	2,782	5,354	119	2,925	53,459

The group's share of jointly controlled entities' and associates' net capitalized costs at 31 December 2004 was \$11,013 million.

Costs incurred for year ended 31 December

Acquisition of properties									
Proved	–	–	–	–	–	–	–	–	–
Unproved	2	–	58	5	–	13	–	–	78
	2	–	58	5	–	13	–	–	78
Exploration and appraisal costs ^b	51	17	423	199	85	142	113	9	1,039
Development costs	679	262	3,247	527	88	1,460	–	1,007	7,270
Total costs	732	279	3,728	731	173	1,615	113	1,016	8,387

The group's share of jointly controlled entities' and associates' costs incurred in 2004 was \$1,102 million: in Russia \$773 million and Rest of Americas \$329 million.

Results of operations for year ended 31 December

Sales and other operating revenues									
Third parties	3,458	626	1,735	1,776	977	492	5	403	9,472
Sales between businesses	2,424	609	11,794	2,556	530	1,439	–	2,912	22,264
	5,882	1,235	13,529	4,332	1,507	1,931	5	3,315	31,736
Exploration expenditure	26	25	361	141	14	45	17	8	637
Production costs	901	117	1,428	535	142	323	–	131	3,577
Production taxes	273	30	477	239	45	–	–	1,023	2,087
Other costs (income) ^c	(211)	38	1,884	458	96	122	(3)	1,380	3,764
Depreciation, depletion and amortization	1,524	172	2,268	611	174	287	–	121	5,157
Impairments and (gains) losses on sale of businesses and fixed assets	21	1	344	(55)	113	48	–	(3)	469
	2,534	383	6,762	1,929	584	825	14	2,660	15,691
Profit (loss) before taxation ^d	3,348	852	6,767	2,403	923	1,106	(9)	655	16,045
Allocable taxes	1,242	534	2,103	859	(4)	441	2	150	5,327
Results of operations	2,106	318	4,664	1,544	927	665	(11)	505	10,718

The group's share of jointly controlled entities' and associates' results of operations (including the group's share of total TNK-BP results) in 2004 was a profit of \$1,814 million after deducting interest of \$189 million, taxation of \$969 million and minority interest of \$43 million.

Exploration and Production segment replacement cost profit before interest and tax

Exploration and production activities									
Group (as above)	3,348	852	6,767	2,403	923	1,106	(9)	655	16,045
Equity-accounted entities after interest and tax	–	–	–	113	36	–	1,665	–	1,814
Midstream activities	194	(55)	455	560	(53)	(19)	–	36	1,118
Total replacement cost profit before interest and tax	3,542	797	7,222	3,076	906	1,087	1,656	691	18,977

^aThis note contains information relating to oil and natural gas exploration and production activities. Midstream activities relating to the management and ownership of crude oil and natural gas pipelines, processing and export terminals and liquefied natural gas (LNG) processing facilities and transportation are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK and Europe are excluded. The most significant midstream pipeline interests include the Trans-Alaska Pipeline System, the Forties Pipeline System, the Central Area Transmission System pipeline and the Baku-Tbilisi-Ceyhan pipeline. Major LNG activities are located in Trinidad, Indonesia and Australia.

The group's share of jointly controlled entities' and associates' activities are excluded from the tables and included in the footnotes with the exception of the Abu Dhabi operations, which are included in the results of operations above.

^bIncludes exploration and appraisal drilling expenditures, which are capitalized within intangible fixed assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^cIncludes the value of royalty oil sold on behalf of others where royalty is payable in cash, property taxes and other government take.

^dExcludes the unwinding of the discount on provisions and payables amounting to \$120 million, which is included in finance costs in the group income statement.

Oil and natural gas exploration and production activities^a continued

									\$ million
									2005
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Capitalized costs at 31 December									
Gross capitalized costs									
Proved properties	31,552	4,608	46,288	9,585	2,922	12,183	–	5,184	112,322
Unproved properties	276	135	1,547	583	1,124	656	185	155	4,661
	31,828	4,743	47,835	10,168	4,046	12,839	185	5,339	116,983
Accumulated depreciation	22,302	2,949	22,016	4,919	1,508	6,112	–	1,200	61,006
Net capitalized costs	9,526	1,794	25,819	5,249	2,538	6,727	185	4,139	55,977

The group's share of jointly controlled entities' and associates' net capitalized costs at 31 December 2005 was \$10,670 million.

Costs incurred for year ended 31 December

Acquisition of properties									
Proved	–	–	–	–	–	–	–	–	–
Unproved	–	–	29	34	–	–	–	–	63
	–	–	29	34	–	–	–	–	63
Exploration and appraisal costs ^b	51	7	606	133	11	264	126	68	1,266
Development costs	790	188	2,965	681	186	1,691	–	1,177	7,678
Total costs	841	195	3,600	848	197	1,955	126	1,245	9,007

The group's share of jointly controlled entities' and associates' costs incurred in 2005 was \$1,205 million: in Russia \$845 million and Rest of Americas \$360 million.

Results of operations for year ended 31 December

Sales and other operating revenues									
Third parties	4,667	635	2,048	2,260	1,045	1,350	–	690	12,695
Sales between businesses	2,458	976	14,842	2,863	782	2,402	–	4,796	29,119
	7,125	1,611	16,890	5,123	1,827	3,752	–	5,486	41,814
Exploration expenditure	32	1	426	84	6	81	37	17	684
Production costs	1,082	118	1,814	578	159	460	–	180	4,391
Production taxes	485	33	610	281	54	–	–	1,536	2,999
Other costs (income) ^c	1,857	(55)	2,200	537	170	98	8	2,042	6,857
Depreciation, depletion and amortization	1,548	220	2,288	675	162	542	–	193	5,628
Impairments and (gains) losses on sale of businesses and fixed assets	44	(1,038)	232	(133)	–	–	2	–	(893)
	5,048	(721)	7,570	2,022	551	1,181	47	3,968	19,666
Profit (loss) before taxation ^d	2,077	2,332	9,320	3,101	1,276	2,571	(47)	1,518	22,148
Allocable taxes	405	880	3,377	1,390	447	1,043	(1)	409	7,950
Results of operations	1,672	1,452	5,943	1,711	829	1,528	(46)	1,109	14,198

The group's share of jointly controlled entities' and associates' results of operations (including the group's share of total TNK-BP results) in 2005 was a profit of \$3,029 million after deducting interest of \$226 million, taxation of \$1,250 million and minority interest of \$104 million.

Exploration and Production segment replacement cost profit before interest and tax

Exploration and production activities									
Group (as above)	2,077	2,332	9,320	3,101	1,276	2,571	(47)	1,518	22,148
Equity-accounted entities after interest and tax	–	–	–	309	35	–	2,685	–	3,029
Midstream activities	46	(76)	799	466	(105)	(18)	(1)	20	1,131
Total replacement cost profit before interest and tax	2,123	2,256	10,119	3,876	1,206	2,553	2,637	1,538	26,308

^aThis note contains information relating to oil and natural gas exploration and production activities. Midstream activities of natural gas gathering and distribution and the operation of the main pipelines and tankers are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK and Europe are excluded. The main midstream activities are the Alaskan transportation facilities, the Forties Pipeline system and the Central Area Transmission System. The group's share of jointly controlled entities' and associates' activities is excluded from the tables and included in the footnotes with the exception of the Abu Dhabi operations, which are included in the income and expenditure items above.

^bIncludes exploration and appraisal drilling expenditures, which are capitalized within intangible fixed assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^cIncludes the value of royalty oil sold on behalf of others where royalty is payable in cash, property taxes, other government take, the fair value loss on embedded derivatives of \$1,668 million and a \$265-million charge incurred on the cancellation of an intragroup gas supply contract. The UK region includes a \$530-million charge offset by corresponding gains primarily in the US, relating to the group's self-insurance programme.

^dExcludes the unwinding of the discount on provisions and payables amounting to \$122 million, which is included in finance costs in the group income statement.

Oil and natural gas exploration and production activities^a continued

	\$ million								
	2006								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Capitalized costs at 31 December									
Gross capitalized costs									
Proved properties	32,528	4,951	44,856	9,404	3,569	15,516	–	6,278	117,102
Unproved properties	423	116	1,443	379	1,155	936	1	137	4,590
	32,951	5,067	46,299	9,783	4,724	16,452	1	6,415	121,692
Accumulated depreciation	22,908	3,175	19,724	4,618	1,709	6,944	–	1,708	60,786
Net capitalized costs	10,043	1,892	26,575	5,165	3,015	9,508	1	4,707	60,906

The group's share of jointly controlled entities' and associates' net capitalized costs at 31 December 2006 was \$10,870 million.

Costs incurred for year ended 31 December

Acquisition of properties									
Proved	–	–	–	–	–	–	–	–	–
Unproved	–	–	74	8	2	70	–	–	154
	–	–	74	8	2	70	–	–	154
Exploration and appraisal costs ^b	132	26	838	135	45	434	73	82	1,765
Development costs	794	214	3,579	820	238	2,356	–	1,108	9,109
Total costs	926	240	4,491	963	285	2,860	73	1,190	11,028

The group's share of jointly controlled entities' and associates' costs incurred in 2006 was \$1,688 million: in Russia \$1,109 million, Rest of Americas \$424 million, Asia Pacific \$16 million and other \$139 million.

Results of operations for year ended 31 December

Sales and other operating revenues									
Third parties	5,378	628	1,381	2,196	1,159	1,647	–	768	13,157
Sales between businesses	2,329	1,024	14,572	3,229	807	2,875	–	7,640	32,476
	7,707	1,652	15,953	5,425	1,966	4,522	–	8,408	45,633
Exploration expenditure	20	(1)	634	132	11	132	17	100	1,045
Production costs	1,312	145	2,311	638	155	509	–	238	5,308
Production taxes	492	38	887	295	63	–	–	2,079	3,854
Other costs (income) ^c	(867)	90	2,561	478	154	104	32	3,121	5,673
Depreciation, depletion and amortization	1,612	213	2,083	685	175	865	–	510	6,143
Impairments and (gains) losses on sale of businesses and fixed assets	(450)	(57)	(1,880)	42	(99)	(31)	–	–	(2,475)
	2,119	428	6,596	2,270	459	1,579	49	6,048	19,548
Profit (loss) before taxation ^d	5,588	1,224	9,357	3,155	1,507	2,943	(49)	2,360	26,085
Allocable taxes	2,567	793	3,136	1,443	472	1,328	3	737	10,479
Results of operations	3,021	431	6,221	1,712	1,035	1,615	(52)	1,623	15,606

The group's share of jointly controlled entities' and associates' results of operations (including the group's share of total TNK-BP results) in 2006 was a profit of \$3,302 million after deducting interest of \$324 million, taxation of \$1,804 million and minority interest of \$193 million.

Exploration and Production segment replacement cost profit before interest and tax

Exploration and production activities									
Group (as above)	5,588	1,224	9,357	3,155	1,507	2,943	(49)	2,360	26,085
Equity-accounted entities after interest and tax	–	–	1	535	33	1	2,730	2	3,302
Midstream activities	519	143	643	503	(196)	37	(24)	14	1,639
Total replacement cost profit before interest and tax	6,107	1,367	10,001	4,193	1,344	2,981	2,657	2,376	31,026

^a This note contains information relating to oil and natural gas exploration and production activities. Midstream activities of natural gas gathering and distribution and the operation of the main pipelines and tankers are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK and Europe are excluded. The main midstream activities are the Alaskan transportation facilities, the Forties Pipeline System and the Central Area Transmission System. The group's share of jointly controlled entities' and associates' activities are excluded from the tables and included in the footnotes with the exception of the Abu Dhabi operations, which are included in the results of operations above.

^b Includes exploration and appraisal drilling expenditures, which are capitalized within intangible fixed assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^c Includes the value of royalty oil sold on behalf of others where royalty is payable in cash, property taxes, other government take and the fair value gain on embedded derivatives of \$515 million.

^d Excludes the unwinding of the discount on provisions and payables amounting to \$153 million, which is included in finance costs in the group income statement.

Oil and natural gas exploration and production activities^a continued

									\$ million
									2007
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Capitalized costs at 31 December									
Gross capitalized costs									
Proved properties	34,774	4,925	53,079	10,627	3,528	18,333	–	7,596	132,862
Unproved properties	606	–	1,660	297	1,188	1,533	4	349	5,637
	35,380	4,925	54,739	10,924	4,716	19,866	4	7,945	138,499
Accumulated depreciation	25,515	2,925	25,500	5,528	1,508	8,315	–	2,553	71,844
Net capitalized costs	9,865	2,000	29,239	5,396	3,208	11,551	4	5,392	66,655

The group's share of jointly controlled entities' and associates' net capitalized costs at 31 December 2007 was \$11,787 million.

Costs incurred for year ended 31 December

Acquisition of properties									
Proved	–	–	245	–	–	–	–	232	477
Unproved	–	–	54	16	–	321	–	126	517
	–	–	299	16	–	321	–	358	994
Exploration and appraisal costs ^b	209	16	646	72	51	677	119	102	1,892
Development costs	804	443	3,861	1,057	333	2,634	–	1,021	10,153
Total costs	1,013	459	4,806	1,145	384	3,632	119	1,481	13,039

The group's share of jointly controlled entities' and associates' costs incurred in 2007 was \$2,552 million: in Russia \$1,787 million, Rest of Americas \$569 million, Asia Pacific \$17 million and other \$179 million.

Results of operations for year ended 31 December

Sales and other operating revenues									
Third parties	4,503	434	1,436	2,142	1,148	2,219	–	921	12,803
Sales between businesses	2,260	902	14,353	3,142	970	3,223	–	9,983	34,833
	6,763	1,336	15,789	5,284	2,118	5,442	–	10,904	47,636
Exploration expenditure	46	–	252	134	11	183	116	14	756
Production costs	1,658	147	2,782	770	190	637	2	344	6,530
Production taxes	227	3	1,260	273	56	–	–	2,224	4,043
Other costs (income) ^c	(419)	123	2,505	395	378	200	169	3,018	6,369
Depreciation, depletion and amortization	1,569	207	2,118	822	205	1,372	–	995	7,288
Impairments and (gains) losses on sale of businesses and fixed assets	112	(534)	(413)	(43)	–	(76)	–	–	(954)
	3,193	(54)	8,504	2,351	840	2,316	287	6,595	24,032
Profit (loss) before taxation ^d	3,570	1,390	7,285	2,933	1,278	3,126	(287)	4,309	23,604
Allocable taxes	1,664	611	2,560	1,202	321	1,462	3	1,079	8,902
Results of operations	1,906	779	4,725	1,731	957	1,664	(290)	3,230	14,702

The group's share of jointly controlled entities' and associates' results of operations (including the group's share of total TNK-BP results) in 2007 was a profit of \$2,704 million after deducting interest of \$401 million, taxation of \$1,355 million and minority interest of \$215 million.

Exploration and Production segment replacement cost profit before interest and tax

Exploration and production activities									
Group (as above)	3,570	1,390	7,285	2,933	1,278	3,126	(287)	4,309	23,604
Equity-accounted entities after interest and tax	–	–	1	381	21	–	2,292	9	2,704
Midstream activities	15	12	643	639	(108)	96	(112)	109	1,294
Total replacement cost profit before interest and tax	3,585	1,402	7,929	3,953	1,191	3,222	1,893	4,427	27,602

^aThis note contains information relating to oil and natural gas exploration and production activities. Midstream activities relating to the management and ownership of crude oil and natural gas pipelines, processing and export terminals and LNG processing facilities and transportation are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK and Europe are excluded. The most significant midstream pipeline interests include the Trans-Alaska Pipeline System, the Forties Pipeline System, the Central Area Transmission System pipeline and the Baku-Tbilisi-Ceyhan pipeline. Major LNG activities are located in Trinidad, Indonesia and Australia. The group's share of jointly controlled entities' and associates' activities are excluded from the tables and included in the footnotes with the exception of the Abu Dhabi operations, which are included in the results of operations above.

^bIncludes exploration and appraisal drilling expenditures, which are capitalized within intangible fixed assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^cIncludes property taxes, other government take and the fair value gain on embedded derivatives of \$47 million. The UK region includes a \$409-million gain offset by corresponding charges primarily in the US, relating to the group self-insurance programme.

^dExcludes the unwinding of the discount on provisions and payables amounting to \$179 million, which is included in finance costs in the group income statement.

Oil and natural gas exploration and production activities^a continued

	\$ million								
	2008								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Capitalized costs at 31 December									
Gross capitalized costs									
Proved properties	34,614	5,507	59,918	11,451	4,720	21,563	–	8,550	146,323
Unproved properties	626	–	5,006	299	1,019	2,011	–	464	9,425
	35,240	5,507	64,924	11,750	5,739	23,574	–	9,014	155,748
Accumulated depreciation	26,564	3,125	28,511	6,358	2,181	10,451	–	3,159	80,349
Net capitalized costs	8,676	2,382	36,413	5,392	3,558	13,123	–	5,855	75,399

The group's share of jointly controlled entities' and associates' net capitalized costs at 31 December 2008 was \$13,393 million.

Costs incurred for year ended 31 December

Acquisition of properties									
Proved	–	–	1,374	2	–	–	–	136	1,512
Unproved	4	–	2,942	–	–	–	–	41	2,987
	4	–	4,316	2	–	–	–	177	4,499
Exploration and appraisal costs ^b	137	–	862	123	79	838	12	239	2,290
Development costs	907	695	4,914	1,077	465	2,966	–	743	11,767
Total costs	1,048	695	10,092	1,202	544	3,804	12	1,159	18,556

The group's share of jointly controlled entities' and associates' costs incurred in 2008 was \$3,259 million: in Russia \$1,921 million, Rest of Americas \$1,039 million, Asia Pacific \$24 million and other \$275 million.

Results of operations for year ended 31 December

Sales and other operating revenues									
Third parties	3,865	105	8,010	3,573	1,410	3,745	–	549	21,257
Sales between businesses	4,374	1,416	15,610	3,755	1,420	6,022	–	11,087	43,684
	8,239	1,521	23,620	7,328	2,830	9,767	–	11,636	64,941
Exploration expenditure	121	1	305	62	41	213	14	125	882
Production costs	1,357	150	3,002	718	213	875	18	334	6,667
Production taxes	503	–	2,603	360	110	–	–	3,083	6,659
Other costs (income) ^c	(28)	(43)	3,440	541	309	245	196	4,041	8,701
Depreciation, depletion and amortization	1,049	199	2,729	911	251	2,120	–	624	7,883
Impairments and (gains) losses on sale of businesses and fixed assets	–	–	308	6	219	8	–	–	541
	3,002	307	12,387	2,598	1,143	3,461	228	8,207	31,333
Profit (loss) before taxation ^d	5,237	1,214	11,233	4,730	1,687	6,306	(228)	3,429	33,608
Allocable taxes	2,280	883	3,857	2,423	618	2,672	(36)	879	13,576
Results of operations	2,957	331	7,376	2,307	1,069	3,634	(192)	2,550	20,032

The group's share of jointly controlled entities' and associates' results of operations (including the group's share of total TNK-BP results) in 2008 was a profit of \$2,793 million after deducting interest of \$355 million, taxation of \$1,217 million and minority interest of \$169 million.

Exploration and Production segment replacement cost profit before interest and tax

Exploration and production activities									
Group (as above)	5,237	1,214	11,233	4,730	1,687	6,306	(228)	3,429	33,608
Equity-accounted entities after interest and tax	(1)	–	1	344	48	(1)	2,259	143	2,793
Midstream activities ^e	743	16	490	947	(228)	112	–	(173)	1,907
Total replacement cost profit before interest and tax	5,979	1,230	11,724	6,021	1,507	6,417	2,031	3,399	38,308

^a This note contains information relating to oil and natural gas exploration and production activities. Midstream activities relating to the management and ownership of crude oil and natural gas pipelines, processing and export terminals and LNG processing facilities and transportation are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK and Europe are excluded. The most significant midstream pipeline interests include the Trans-Alaska Pipeline System, the Forties Pipeline System, the Central Area Transmission System pipeline and the Baku-Tbilisi-Ceyhan pipeline. Major LNG activities are located in Trinidad, Indonesia and Australia and BP is also investing in the LNG business in Angola. The group's share of jointly controlled entities' and associates' activities are excluded from the tables and included in the footnotes with the exception of the Abu Dhabi operations, which are included in the results of operations above.

^b Includes exploration and appraisal drilling expenditures, which are capitalized within intangible fixed assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^c Includes property taxes, other government take and the fair value loss on embedded derivatives of \$102 million. The UK region includes a \$499-million gain offset by corresponding charges primarily in the US, relating to the group self-insurance programme.

^d Excludes the unwinding of the discount on provisions and payables amounting to \$285 million, which is included in finance costs in the group income statement.

^e Includes a \$517-million write-down of our investment in Rosneft based on its quoted market price at the end of the year.

Movements in estimated net proved reserves – crude oil^a

BP estimates proved reserves for reporting purposes in accordance with SEC rules and relevant guidance (see page 4). As currently required, these proved reserve estimates are based on prices and costs as of the date the estimate is made. There was a rapid and substantial decline in oil prices in the fourth quarter of 2008 that was not matched by a similar reduction in operating costs by the end of the year. BP does not expect that these economic conditions will continue. However, our 2008 reserves are calculated on the basis of operating activities that would be undertaken were year-end prices and costs to persist.

	million barrels								
	2004								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	697	236	1,902	385	82	190	–	73	3,565
Undeveloped	245	127	1,499	354	81	632	–	711	3,649
	942	363	3,401	739	163	822	–	784	7,214
Changes attributable to									
Revisions of previous estimates	(133)	1	(44)	(92)	2	19	–	(192)	(439)
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	24	–	74	5	8	48	–	213	372
Improved recovery	57	4	55	31	–	6	–	3	156
Production ^b	(121)	(28)	(217)	(63)	(17)	(48)	–	(21)	(515)
Sales of reserves-in-place	–	–	(17)	(10)	(6)	–	–	–	(33)
	(173)	(23)	(149)	(129)	(13)	25	–	3	(459)
At 31 December ^c									
Developed	559	231	2,041	311	65	204	–	62	3,473
Undeveloped	210	109	1,211	299	85	643	–	725	3,282
	769	340	3,252 ^d	610	150	847	–	787	6,755
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	206	1	–	1,384	705	2,296
Undeveloped	–	–	–	134	–	–	410	27	571
	–	–	–	340	1	–	1,794	732	2,867
Changes attributable to									
Revisions of previous estimates	–	–	–	(5)	–	–	382	15	392
Purchases of reserves-in-place	–	–	–	–	–	–	252	–	252
Discoveries and extensions	–	–	–	2	–	–	–	–	2
Improved recovery	–	–	–	17	–	–	37	–	54
Production	–	–	–	(25)	–	–	(304)	(55)	(384)
Sales of reserves-in-place	–	–	–	–	–	–	(4)	–	(4)
	–	–	–	(11)	–	–	363	(40)	312
At 31 December ^e									
Developed	–	–	–	204	1	–	1,863	592	2,660
Undeveloped	–	–	–	125	–	–	294	100	519
	–	–	–	329	1	–	2,157	692	3,179
Total group and BP share of equity-accounted entities	769	340	3,252	939	151	847	2,157	1,479	9,934

^a Crude oil includes NGLs and condensate. Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Excludes NGLs from processing plants in which an interest is held of 58 thousand barrels per day.

^c Includes 724 million barrels of NGLs. Also includes 40 million barrels of crude oil in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 77 million barrels on which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Includes 27 million barrels of NGLs. Also includes 127 million barrels of crude oil in respect of the 5.9% minority interest in TNK-BP.

Movements in estimated net proved reserves – crude oil^a continued

	million barrels								
									2005
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	559	231	2,041	311	65	204	–	62	3,473
Undeveloped	210	109	1,211	299	85	643	–	725	3,282
	769	340	3,252	610	150	847	–	787	6,755
Changes attributable to									
Revisions of previous estimates	(31)	(8)	103	(21)	21	(190)	–	(148)	(274)
Purchases of reserves-in-place	–	–	2	–	–	–	–	–	2
Discoveries and extensions	11	–	40	3	11	83	–	–	148
Improved recovery	32	21	217	1	–	2	–	7	280
Production ^b	(101)	(27)	(200)	(53)	(17)	(64)	–	(34)	(496)
Sales of reserves-in-place	–	(15)	(1)	(39)	–	–	–	–	(55)
	(89)	(29)	161	(109)	15	(169)	–	(175)	(395)
At 31 December ^c									
Developed	496	225	1,984	215	70	142	–	69	3,201
Undeveloped	184	86	1,429	286	95	536	–	543	3,159
	680	311	3,413 ^d	501	165	678	–	612	6,360
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	204	1	–	1,863	592	2,660
Undeveloped	–	–	–	125	–	–	294	100	519
	–	–	–	329	1	–	2,157	692	3,179
Changes attributable to									
Revisions of previous estimates	–	–	–	1	–	–	319	119	439
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	–	–	–	2	–	–	–	–	2
Improved recovery	–	–	–	25	–	–	–	–	25
Production	–	–	–	(26)	–	–	(333)	(57)	(416)
Sales of reserves-in-place	–	–	–	–	–	–	(24)	–	(24)
	–	–	–	2	–	–	(38)	62	26
At 31 December ^c									
Developed	–	–	–	207	1	–	1,688	590	2,486
Undeveloped	–	–	–	124	–	–	431	164	719
	–	–	–	331	1	–	2,119	754	3,205
Total group and BP share of equity-accounted entities	680	311	3,413	832	166	678	2,119	1,366	9,565

^a Crude oil includes NGLs and condensate. Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Excludes NGLs from processing plants in which an interest is held of 58 thousand barrels per day.

^c Includes 818 million barrels of NGLs. Also includes 29 million barrels of crude oil in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 77 million barrels on which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Includes 33 million barrels of NGLs. Also includes 95 million barrels of crude oil in respect of the 4.47% minority interest in TNK-BP.

 **Movements in estimated net proved reserves – crude oil^a continued**

	million barrels								
									2006
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	496	225	1,984	215	70	142	–	69	3,201
Undeveloped	184	86	1,429	286	95	536	–	543	3,159
	680	311	3,413	501	165	678	–	612	6,360
Changes attributable to									
Revisions of previous estimates	(3)	(11)	(108)	(9)	–	2	–	16	(113)
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	3	–	48	–	1	67	–	–	119
Improved recovery	26	9	95	13	4	22	–	–	169
Production ^b	(92)	(23)	(178)	(39)	(17)	(64)	–	(58)	(471)
Sales of reserves-in-place	(10)	–	(62)	(99)	–	–	–	–	(171)
	(76)	(25)	(205)	(134)	(12)	27	–	(42)	(467)
At 31 December ^c									
Developed	458	189	1,916	130	67	193	–	88	3,041
Undeveloped	146	97	1,292	237	86	512	–	482	2,852
	604	286	3,208 ^d	367	153	705	–	570	5,893
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	207	1	–	1,688	590	2,486
Undeveloped	–	–	–	124	–	–	431	164	719
	–	–	–	331	1	–	2,119	754	3,205
Changes attributable to									
Revisions of previous estimates	–	–	–	(2)	–	–	1,215	(8)	1,205
Purchases of reserves-in-place	–	–	–	28	–	–	–	–	28
Discoveries and extensions	–	–	–	1	–	–	–	–	1
Improved recovery	–	–	–	34	–	–	–	–	34
Production	–	–	–	(28)	–	–	(320)	(63)	(411)
Sales of reserves-in-place	–	–	–	(4)	–	–	(170)	–	(174)
	–	–	–	29	–	–	725	(71)	683
At 31 December ^e									
Developed	–	–	–	221	1	–	2,200	520	2,942
Undeveloped	–	–	–	139	–	–	644	163	946
	–	–	–	360	1	–	2,844	683	3,888
Total group and BP share of equity-accounted entities	604	286	3,208	727	154	705	2,844	1,253	9,781

^a Crude oil includes NGLs and condensate. Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Excludes NGLs from processing plants in which an interest is held of 55 thousand barrels per day.

^c Includes 779 million barrels of NGLs. Also includes 23 million barrels of crude oil in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 77 million barrels on which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Includes 28 million barrels of NGLs. Also includes 179 million barrels of crude oil in respect of the 6.29% minority interest in TNK-BP.

Movements in estimated net proved reserves – crude oil^a continued

	million barrels								
	2007								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	458	189	1,916	130	67	193	–	88	3,041
Undeveloped	146	97	1,292	237	86	512	–	482	2,852
	604	286	3,208	367	153	705	–	570	5,893
Changes attributable to									
Revisions of previous estimates	(1)	(25)	18	(29)	(7)	(133)	–	(27)	(204)
Purchases of reserves-in-place	–	–	25	–	–	–	–	8	33
Discoveries and extensions	–	31	60	1	2	93	–	–	187
Improved recovery	7	1	99	6	5	12	–	1	131
Production ^b	(73)	(19)	(169)	(27)	(15)	(71)	–	(80)	(454)
Sales of reserves-in-place	–	–	(94)	–	–	–	–	–	(94)
	(67)	(12)	(61)	(49)	(15)	(99)	–	(98)	(401)
At 31 December ^c									
Developed	414	105	1,882	115	61	256	–	104	2,937
Undeveloped	123	169	1,265	203	77	350	–	368	2,555
	537	274	3,147 ^d	318	138	606	–	472	5,492
Equity-accounted entities (BP share)^e									
At 1 January									
Developed	–	–	–	221	1	–	2,200	520	2,942
Undeveloped	–	–	–	139	–	–	644	163	946
	–	–	–	360	1	–	2,844	683	3,888
Changes attributable to									
Revisions of previous estimates	–	–	–	178	–	–	413	167	758
Purchases of reserves-in-place	–	–	–	–	–	–	16	–	16
Discoveries and extensions	–	–	–	2	–	–	283	–	285
Improved recovery	–	–	–	59	–	–	–	1	60
Production	–	–	–	(28)	–	–	(304)	(73)	(405)
Sales of reserves-in-place	–	–	–	–	–	–	(21)	–	(21)
	–	–	–	211	–	–	387	95	693
At 31 December ^f									
Developed	–	–	–	328	1	–	2,094	573	2,996
Undeveloped	–	–	–	243	–	–	1,137	205	1,585
	–	–	–	571	1	–	3,231	778	4,581
Total group and BP share of equity-accounted entities	537	274	3,147	889	139	606	3,231	1,250	10,073

^a Crude oil includes NGLs and condensate. Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Excludes NGLs from processing plants in which an interest is held of 54 thousand barrels per day.

^c Includes 739 million barrels of NGLs. Also includes 20 million barrels of crude oil in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 98 million barrels on which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e The BP group holds interests, through associates, in onshore and offshore concessions in Abu Dhabi, expiring in 2014 and 2018 respectively. During the second quarter of 2007, we updated our reporting policy in Abu Dhabi to be consistent with general industry practice and as a result have started reporting production and reserves there gross of production taxes. This change resulted in an increase in our reserves of 153 million barrels and in our production of 33 thousand barrels per day.

^f Includes 26 million barrels of NGLs. Also includes 210 million barrels of crude oil in respect of the 6.51% minority interest in TNK-BP.

 **Movements in estimated net proved reserves – crude oil^a continued**

	million barrels								
	2008								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	414	105	1,882	115	61	256	–	104	2,937
Undeveloped	123	169	1,265	203	77	350	–	368	2,555
	537	274	3,147	318	138	606	–	472	5,492
Changes attributable to									
Revisions of previous estimates	16	(11)	(212)	8	16	264	–	183	264
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	–	–	64	5	–	173	–	–	242
Improved recovery	39	28	182	8	6	18	–	40	321
Production ^b	(63)	(16)	(191)	(26)	(14)	(101)	–	(44)	(455)
Sales of reserves-in-place	–	–	–	(199)	–	–	–	–	(199)
	(8)	1	(157)	(204)	8	354	–	179	173
At 31 December ^c									
Developed	410	81	1,717	58	77	464	–	174	2,981
Undeveloped	119	194	1,273	56	69	496	–	477	2,684
	529	275	2,990 ^d	114	146	960	–	651	5,665
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	328	1	–	2,094	573	2,996
Undeveloped	–	–	–	243	–	–	1,137	205	1,585
	–	–	–	571	1	–	3,231	778	4,581
Changes attributable to									
Revisions of previous estimates	–	–	–	(3)	–	11	217	(1)	224
Purchases of reserves-in-place	–	–	–	199	–	–	–	–	199
Discoveries and extensions	–	–	–	13	–	–	26	–	39
Improved recovery	–	–	–	62	–	–	–	–	62
Production	–	–	–	(34)	–	–	(302)	(80)	(416)
Sales of reserves-in-place	–	–	–	–	–	–	(1)	–	(1)
	–	–	–	237	–	11	(60)	(81)	107
At 31 December ^e									
Developed	–	–	–	399	1	–	2,227	498	3,125
Undeveloped	–	–	–	409	–	11	944	199	1,563
	–	–	–	808	1	11	3,171	697	4,688
Total group and BP share of equity-accounted entities	529	275	2,990	922	147	971	3,171	1,348	10,353

^a Crude oil includes NGLs and condensate. Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Excludes NGLs from processing plants in which an interest is held of 19 thousand barrels per day.

^c Includes 807 million barrels of NGLs. Also includes 21 million barrels of crude oil in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 54 million barrels on which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Includes 36 million barrels of NGLs. Also includes 216 million barrels of crude oil in respect of the 6.80% minority interest in TNK-BP.

Movements in estimated net proved reserves – natural gas^a

BP estimates proved reserves for reporting purposes in accordance with SEC rules and relevant guidance (see page 4). As currently required, these proved reserve estimates are based on prices and costs as of the date the estimate is made. There was a rapid and substantial decline in oil prices in the fourth quarter of 2008 that was not matched by a similar reduction in operating costs by the end of the year. BP does not expect that these economic conditions will continue. However, our 2008 reserves are calculated on the basis of operating activities that would be undertaken were year-end prices and costs to persist.

	billion cubic feet								
	2004								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	2,996	262	11,482	4,212	1,976	640	–	255	21,823
Undeveloped	1,095	1,255	3,337	11,531	3,026	2,188	–	900	23,332
	4,091	1,517	14,819	15,743	5,002	2,828	–	1,155	45,155
Changes attributable to									
Revisions of previous estimates	(210)	28	(438)	(1,081)	106	16	–	558	(1,021)
Purchases of reserves-in-place	–	–	3	2	–	–	–	–	5
Discoveries and extensions	127	–	140	991	2,478	233	–	3	3,972
Improved recovery	134	4	870	76	–	29	–	38	1,151
Production ^b	(461)	(47)	(1,111)	(875)	(296)	(102)	–	(76)	(2,968)
Sales of reserves-in-place	–	–	(202)	(92)	(247)	(103)	–	–	(644)
	(410)	(15)	(738)	(979)	2,041	73	–	523	495
At 31 December ^c									
Developed	2,498	248	10,811	4,101	1,624	1,015	–	282	20,579
Undeveloped	1,183	1,254	3,270	10,663	5,419	1,886	–	1,396	25,071
	3,681	1,502	14,081	14,764	7,043	2,901	–	1,678	45,650
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	1,591	136	–	46	58	1,831
Undeveloped	–	–	–	916	80	–	14	28	1,038
	–	–	–	2,507	216	–	60	86	2,869
Changes attributable to									
Revisions of previous estimates	–	–	–	(12)	(17)	–	341	–	312
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	–	–	–	–	–	–	–	–	–
Improved recovery	–	–	–	23	–	–	–	–	23
Production ^b	–	–	–	(144)	(23)	–	(177)	(3)	(347)
Sales of reserves-in-place	–	–	–	–	–	–	–	–	–
	–	–	–	(133)	(40)	–	164	(3)	(12)
At 31 December ^d									
Developed	–	–	–	1,397	107	–	214	60	1,778
Undeveloped	–	–	–	977	69	–	10	23	1,079
	–	–	–	2,374	176	–	224	83	2,857
Total group and BP share of equity-accounted entities^d	3,681	1,502	14,081	17,138	7,219	2,901	224	1,761	48,507

^a Net proved reserves of natural gas exclude production royalties due to others, whether royalty is payable in cash or in kind.

^b Includes 190bcf of natural gas consumed in operations, 165bcf in subsidiaries and 25bcf in equity-accounted entities.

^c Includes 4,064bcf of natural gas in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Includes 13bcf of natural gas in respect of the 5.9% minority interest in TNK-BP.

Year-end estimated net proved reserves – crude oil and natural gas

	million barrels oil equivalent ^a								
	2004								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Total developed and undeveloped oil and natural gas reserves									
Subsidiaries	1,404	599	5,680	3,156	1,364	1,347	–	1,076	14,626
Equity-accounted entities (BP share)	–	–	–	738	31	–	2,196	706	3,671
Total group and BP share of equity-accounted entities	1,404	599	5,680	3,894	1,395	1,347	2,196	1,782	18,297

^a 5.8bcf of natural gas = 1 million boe.

Movements in estimated net proved reserves – natural gas^a continued

	billion cubic feet								
	2005								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	2,498	248	10,811	4,101	1,624	1,015	–	282	20,579
Undeveloped	1,183	1,254	3,270	10,663	5,419	1,886	–	1,396	25,071
	3,681	1,502	14,081	14,764	7,043	2,901	–	1,678	45,650
Changes attributable to									
Revisions of previous estimates	(102)	11	447	104	(133)	152	–	15	494
Purchases of reserves-in-place	–	–	66	2	–	–	–	–	68
Discoveries and extensions	21	19	47	225	204	44	–	–	560
Improved recovery	111	19	1,773	87	–	–	–	10	2,000
Production ^b	(425)	(44)	(1,018)	(888)	(280)	(163)	–	(80)	(2,898)
Sales of reserves-in-place	–	(1,182)	(14)	(230)	–	–	–	–	(1,426)
	(395)	(1,177)	1,301	(700)	(209)	33	–	(55)	(1,202)
At 31 December ^c									
Developed	2,382	245	11,184	3,560	1,459	934	–	281	20,045
Undeveloped	904	80	4,198	10,504	5,375	2,000	–	1,342	24,403
	3,286	325	15,382	14,064	6,834	2,934	–	1,623	44,448
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	1,397	107	–	214	60	1,778
Undeveloped	–	–	–	977	69	–	10	23	1,079
	–	–	–	2,374	176	–	224	83	2,857
Changes attributable to									
Revisions of previous estimates	–	–	–	26	(81)	–	1,337	102	1,384
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	–	–	–	28	–	–	–	–	28
Improved recovery	–	–	–	66	–	–	–	–	66
Production ^b	–	–	–	(154)	(19)	–	(184)	(3)	(360)
Sales of reserves-in-place	–	–	–	–	–	–	(119)	–	(119)
	–	–	–	(34)	(100)	–	1,034	99	999
At 31 December ^d									
Developed	–	–	–	1,492	50	–	1,089	130	2,761
Undeveloped	–	–	–	848	26	–	169	52	1,095
	–	–	–	2,340	76	–	1,258	182	3,856
Total group and BP share of equity-accounted entities	3,286	325	15,382	16,404	6,910	2,934	1,258	1,805	48,304

^a Net proved reserves of natural gas exclude production royalties due to others, whether royalty is payable in cash or in kind.

^b Includes 174bcf of natural gas consumed in operations, 147bcf in subsidiaries and 27bcf in equity-accounted entities.

^c Includes 3,812bcf of natural gas in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Includes 57bcf of natural gas in respect of the 4.47% minority interest in TNK-BP.

Year-end estimated net proved reserves – crude oil and natural gas continued

	million barrels oil equivalent ^a								
	2005								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Total developed and undeveloped oil and natural gas reserves									
Subsidiaries	1,247	367	6,065	2,926	1,343	1,184	–	892	14,024
Equity-accounted entities (BP share)	–	–	–	734	14	–	2,336	785	3,869
Total group and BP share of equity-accounted entities	1,247	367	6,065	3,660	1,357	1,184	2,336	1,677	17,893

^a 5.8bcf of natural gas = 1 million boe.

Movements in estimated net proved reserves – natural gas^a continued

	billion cubic feet								
	2006								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	2,382	245	11,184	3,560	1,459	934	–	281	20,045
Undeveloped	904	80	4,198	10,504	5,375	2,000	–	1,342	24,403
	3,286	325	15,382	14,064	6,834	2,934	–	1,623	44,448
Changes attributable to									
Revisions of previous estimates	(343)	11	(922)	(291)	(92)	(69)	–	33	(1,673)
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	101	–	116	–	21	5	–	2	245
Improved recovery	144	–	1,755	344	71	6	–	9	2,329
Production ^b	(370)	(38)	(941)	(982)	(273)	(169)	–	(82)	(2,855)
Sales of reserves-in-place	(25)	–	(292)	(9)	–	–	–	–	(326)
	(493)	(27)	(284)	(938)	(273)	(227)	–	(38)	(2,280)
At 31 December ^c									
Developed	1,968	242	10,438	3,932	1,359	1,032	–	331	19,302
Undeveloped	825	56	4,660	9,194	5,202	1,675	–	1,254	22,866
	2,793	298	15,098	13,126	6,561	2,707	–	1,585	42,168
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	1,492	50	–	1,089	130	2,761
Undeveloped	–	–	–	848	26	–	169	52	1,095
	–	–	–	2,340	76	–	1,258	182	3,856
Changes attributable to									
Revisions of previous estimates	–	–	–	7	13	–	217	47	284
Purchases of reserves-in-place	–	–	–	–	–	–	–	–	–
Discoveries and extensions	–	–	–	23	–	–	–	–	23
Improved recovery	–	–	–	73	1	–	–	–	74
Production ^b	–	–	–	(171)	(15)	–	(204)	(7)	(397)
Sales of reserves-in-place	–	–	–	(77)	–	–	–	–	(77)
	–	–	–	(145)	(1)	–	13	40	(93)
At 31 December ^d									
Developed	–	–	–	1,460	52	–	1,087	170	2,769
Undeveloped	–	–	–	735	23	–	184	52	994
	–	–	–	2,195	75	–	1,271	222	3,763
Total group and BP share of equity-accounted entities ^d	2,793	298	15,098	15,321	6,636	2,707	1,271	1,807	45,931

^a Net proved reserves of natural gas exclude production royalties due to others, whether royalty is payable in cash or in kind.

^b Includes 178bcf of natural gas consumed in operations, 147bcf in subsidiaries and 31bcf in equity-accounted entities and excludes 8.3bcf of produced non-hydrocarbon components that meet regulatory requirements for sale.

^c Includes 3,537bcf of natural gas in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Includes 99bcf of natural gas in respect of the 7.77% minority interest in TNK-BP.

Year-end estimated net proved reserves – crude oil and natural gas continued

	million barrels oil equivalent ^a								
	2006								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Total developed and undeveloped oil and natural gas reserves									
Subsidiaries	1,086	337	5,812	2,630	1,284	1,172	–	843	13,164
Equity-accounted entities (BP share)	–	–	–	738	13	–	3,063	722	4,536
Total group and BP share of equity-accounted entities	1,086	337	5,812	3,368	1,297	1,172	3,063	1,565	17,700

^a 5.8bcf of natural gas = 1 million boe.

Movements in estimated net proved reserves – natural gas^a continued

	billion cubic feet								
	2007								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	1,968	242	10,438	3,932	1,359	1,032	–	331	19,302
Undeveloped	825	56	4,660	9,194	5,202	1,675	–	1,254	22,866
	2,793	298	15,098	13,126	6,561	2,707	–	1,585	42,168
Changes attributable to									
Revisions of previous estimates	93	(37)	744	(276)	140	(146)	–	(21)	497
Purchases of reserves-in-place	–	–	23	–	–	–	–	109	132
Discoveries and extensions	–	293	95	249	88	17	–	–	742
Improved recovery	15	1	326	32	111	9	–	5	499
Production ^b	(299)	(14)	(879)	(1,047)	(261)	(187)	–	(114)	(2,801)
Sales of reserves-in-place	–	(68)	(32)	(7)	–	–	–	–	(107)
	(191)	175	277	(1,049)	78	(307)	–	(21)	(1,038)
At 31 December ^c									
Developed	2,049	63	10,670	3,683	1,822	990	–	583	19,860
Undeveloped	553	410	4,705	8,394	4,817	1,410	–	981	21,270
	2,602	473	15,375	12,077	6,639	2,400	–	1,564	41,130
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	1,460	52	–	1,087	170	2,769
Undeveloped	–	–	–	735	23	–	184	52	994
	–	–	–	2,195	75	–	1,271	222	3,763
Changes attributable to									
Revisions of previous estimates	–	–	–	73	(2)	–	61	11	143
Purchases of reserves-in-place	–	–	–	–	–	–	8	–	8
Discoveries and extensions	–	–	–	22	–	–	–	–	22
Improved recovery	–	–	–	195	16	–	–	–	211
Production ^b	–	–	–	(176)	(13)	–	(179)	(9)	(377)
Sales of reserves-in-place	–	–	–	–	–	–	–	–	–
	–	–	–	114	1	–	(110)	2	7
At 31 December ^d									
Developed	–	–	–	1,478	39	–	808	148	2,473
Undeveloped	–	–	–	831	37	–	353	76	1,297
	–	–	–	2,309	76	–	1,161	224	3,770
Total group and BP share of equity-accounted entities ^d	2,602	473	15,375	14,386	6,715	2,400	1,161	1,788	44,900

^a Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Includes 202bcf of natural gas consumed in operations, 161bcf in subsidiaries, 41bcf in equity-accounted entities and excludes 10.9bcf of produced non-hydrocarbon components that meet regulatory requirements for sales.

^c Includes 3,211bcf of natural gas in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Includes 68bcf of natural gas in respect of the 5.88% minority interest in TNK-BP.

Year-end estimated net proved reserves – crude oil and natural gas continued

	million barrels oil equivalent ^a								
	2007								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Total developed and undeveloped oil and natural gas reserves									
Subsidiaries	986	356	5,798	2,400	1,282	1,020	–	741	12,583
Equity-accounted entities (BP share)	–	–	–	969	14	–	3,431	817	5,231
Total group and BP share of equity-accounted entities	986	356	5,798	3,369	1,296	1,020	3,431	1,558	17,814

^a 5.8bcf of natural gas = 1 million boe.

Movements in estimated net proved reserves – natural gas^a continued

	billion cubic feet								
	2008								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Subsidiaries									
At 1 January									
Developed	2,049	63	10,670	3,683	1,822	990	–	583	19,860
Undeveloped	553	410	4,705	8,394	4,817	1,410	–	981	21,270
	2,602	473	15,375	12,077	6,639	2,400	–	1,564	41,130
Changes attributable to									
Revisions of previous estimates	23	(8)	(2,063)	(405)	326	142	–	35	(1,950)
Purchases of reserves-in-place	–	–	183	–	–	–	–	–	183
Discoveries and extensions	–	–	549	1,073	–	82	–	37	1,741
Improved recovery	77	9	1,322	175	56	6	–	54	1,699
Production ^b	(298)	(11)	(834)	(1,040)	(264)	(198)	–	(150)	(2,795)
Sales of reserves-in-place	–	–	–	(3)	–	–	–	–	(3)
	(198)	(10)	(843)	(200)	118	32	–	(24)	(1,125)
At 31 December ^c									
Developed	1,822	61	9,059	3,975	2,482	1,050	–	507	18,956
Undeveloped	582	402	5,473	7,902	4,275	1,382	–	1,033	21,049
	2,404	463	14,532	11,877	6,757	2,432	–	1,540	40,005
Equity-accounted entities (BP share)									
At 1 January									
Developed	–	–	–	1,478	39	–	808	148	2,473
Undeveloped	–	–	–	831	37	–	353	76	1,297
	–	–	–	2,309	76	–	1,161	224	3,770
Changes attributable to									
Revisions of previous estimates	–	–	–	(96)	(2)	182	1,273	–	1,357
Purchases of reserves-in-place	–	–	–	3	–	–	–	–	3
Discoveries and extensions	–	–	–	192	–	–	–	–	192
Improved recovery	–	–	–	301	11	–	–	–	312
Production ^b	–	–	–	(188)	(12)	–	(221)	(10)	(431)
Sales of reserves-in-place	–	–	–	–	–	–	–	–	–
	–	–	–	212	(3)	182	1,052	(10)	1,433
At 31 December ^d									
Developed	–	–	–	1,498	37	–	1,560	139	3,234
Undeveloped	–	–	–	1,023	36	182	653	75	1,969
	–	–	–	2,521	73	182	2,213	214	5,203
Total group and BP share of equity-accounted entities ^d	2,404	463	14,532	14,398	6,830	2,614	2,213	1,754	45,208

^a Proved reserves exclude royalties due to others, whether royalty is payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Includes 193bcf of natural gas consumed in operations, 149bcf in subsidiaries, 44bcf in equity-accounted entities and excludes 16.9bcf of produced non-hydrocarbon components that meet regulatory requirements for sales.

^c Includes 3,108bcf of natural gas in respect of the 30% minority interest in BP Trinidad and Tobago LLC.

^d Includes 131bcf of natural gas in respect of the 5.92% minority interest in TNK-BP.

Year-end estimated net proved reserves – crude oil and natural gas continued

	million barrels oil equivalent ^a								
	2008								
	UK	Rest of Europe	US	Rest of Americas	Asia Pacific	Africa	Russia	Other	Total
Total developed and undeveloped oil and natural gas reserves									
Subsidiaries	943	355	5,496	2,162	1,311	1,379	–	916	12,562
Equity-accounted entities (BP share)	–	–	–	1,243	14	42	3,553	733	5,585
Total group and BP share of equity-accounted entities	943	355	5,496	3,405	1,325	1,421	3,553	1,649	18,147

^a 5.8bcf of natural gas = 1 million boe.

Group production interests – crude oil (includes NGLs and condensate)

			BP net share of production ^a thousand barrels per day				
	Field	Interest%	2004	2005	2006	2007	2008
US							
Alaska	Prudhoe Bay ^b	26.4	97	89	71	74	72
	Kuparuk	Various	68	62	57	52	48
	Northstar ^b	98.6	49	46	38	28	22
	Milne Point ^b	Various	44	37	31	28	27
	Other	Various	37	34	27	27	28
Lower 48 onshore ^c	Various	Various	142	130	125	108	97
Gulf of Mexico ^c	Na Kika ^b	Various	27	44	41	32	29
	Thunder Horse ^b	75.0	–	–	–	–	24
	Horn Mountain ^b	100.0	41	26	23	18	18
	King ^b	100.0	26	24	28	22	23
	Mars	28.5	35	21	19	30	28
	Mad Dog ^b	60.5	–	13	17	25	31
	Atlantis ^b	56.0	–	–	–	2	42
	Other	Various	100	86	70	67	49
			666	612	547	513	538
Europe							
Netherlands ^c	Various	Various	1	1	1	–	–
Norway	Valhall ^b	28.1	25	25	21	17	14
	Draugen	18.4	27	20	15	14	13
	Ula ^b	80.0	16	17	14	12	8
	Other	Various	8	12	10	8	8
UK – offshore ^c	ETAP ^d	Various	55	49	49	32	27
	Foinaven ^b	Various	48	39	37	37	26
	Magnus ^b	85.0	34	30	30	16	18
	Schiehallion/Loyal ^b	Various	39	28	26	20	18
	Clair ^b	28.6	–	4	7	9	13
	Harding ^b	70.0	27	22	17	14	11
	Andrew ^b	62.8	12	12	7	8	7
	Other	Various	89	71	62	50	37
UK – onshore	Wytch Farm ^b	67.8	26	22	18	15	16
			407	352	314	252	216
Rest of World							
Angola	Dalia	16.7	–	–	–	31	34
	Girassol	16.7	31	34	17	14	6
	Greater Plutonio ^b	50.0	–	–	–	12	69
	Kizomba A	26.7	16	56	54	36	15
	Kizomba B	26.7	–	28	58	35	16
	Other	Various	24	10	4	12	62
Australia	Various	15.8	36	36	34	34	29
Azerbaijan	ACG (Azeri-Chirag-Gunashli) ^b	34.1	39	76	145	200	97
	Shah Deniz ^b	25.5	–	–	–	5	8
Canada ^c	Various ^b	Various	11	10	8	8	9
Colombia	Various ^b	Various	48	41	34	28	24
Egypt	Various	Various	57	47	42	43	57
Trinidad & Tobago	Various ^b	100.0	59	40	40	30	37
Venezuela ^c	Various	Various	55	55	26	16	4
Other ^c	Various	Various	31	26	28	35	42
			407	459	490	539	509
Total group^e			1,480	1,423	1,351	1,304	1,263
Equity-accounted entities (BP share)							
Abu Dhabi ^f	Various	Various	142	148	163	192	210
Argentina – Pan American Energy	Various	Various	64	67	69	69	70
Russia – TNK-BP ^c	Various	Various	831	911	876	832	826
Other ^c	Various	Various	14	13	16	17	32
Total equity-accounted entities			1,051	1,139	1,124	1,110	1,138
Total group and BP share of equity-accounted entities			2,531	2,562	2,475	2,414	2,401

^a Production excludes royalties due to others whether payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b BP-operated.

^c In 2008, BP concluded the migration of the Cerro Negro operations to an incorporated joint venture with Petróleos de Venezuela, S.A. (PDVSA) while retaining its equity position and TNK-BP disposed of some non-core interests. In 2007, BP divested its producing properties in the Netherlands and some producing properties in the US Lower 48 and Canada. TNK-BP disposed of its interests in several non-core properties. In 2006, BP divested its producing properties on the Outer Continental Shelf of the Gulf of Mexico and its interest in the Staffjord oil and gas field in the UK. Our interests in the Boqueron, Desarrollo Zulia Occidental (DZO) and Jusepin projects in Venezuela were reduced following a decision by the Venezuelan government. TNK-BP disposed of its non-core interests in the Udmurtneft assets.

^d Volumes relate to six BP-operated fields within ETAP. BP has no interests in the remaining three ETAP fields, which are operated by Shell.

^e Includes 19 net mboe/d of NGLs from processing plants in which BP has an interest (2007 54mboe/d, 2006 55mboe/d, 2005 58mboe/d and 2004 67mboe/d).

^f The BP group holds interests, through associates, in onshore and offshore concessions in Abu Dhabi, expiring in 2014 and 2018 respectively. During the second quarter of 2007, we updated our reporting policy in Abu Dhabi to be consistent with general industry practice and as a result have started reporting production and reserves there gross of production taxes.

Group production interests – natural gas

			BP net share of production ^a million cubic feet per day				
	Field	Interest%	2004	2005	2006	2007	2008
US							
Lower 48 onshore ^b	San Juan ^c	Various	772	753	765	694	682
	Arkoma ^c	Various	183	198	225	204	240
	Hugoton ^c	Various	158	151	137	123	91
	Tuscaloosa ^c	Various	96	111	86	78	65
	Wamsutter ^c	66.6	105	110	113	120	136
	Jonah ^c	Various	114	97	133	173	221
	Other	Various	514	465	461	458	451
Gulf of Mexico ^b	Na Kika ^c	51.9	133	133	97	50	62
	Marlin ^c	78.2	43	52	16	13	46
	Other	Various	553	395	276	206	122
Alaska	Various	Various	78	81	67	55	41
			2,749	2,546	2,376	2,174	2,157
Europe							
Netherlands ^b	P/18-2	48.7	34	25	23	–	–
	Other	Various	46	37	33	3	–
Norway	Various	Various	45	46	35	26	23
UK – offshore ^b	Braes ^d	Various	147	165	101	69	75
	Bruce ^c	37.0	163	161	107	72	65
	West Sole ^c	100.0	67	55	56	55	51
	Marnock ^c	62.1	70	47	42	25	24
	Britannia	9.0	54	46	42	37	30
	Shearwater	27.5	76	37	31	19	17
	Armada	18.2	50	30	28	16	16
	Other	Various	547	549	529	475	481
			1,299	1,198	1,027	797	782
Rest of World							
Australia	Various	15.8	308	367	364	376	380
Canada ^b	Various ^c	Various	349	307	282	255	245
China	Yacheng ^c	34.3	99	98	102	85	91
Egypt	Ha'py ^c	50.0	80	106	99	108	94
	Other	Various	115	83	172	206	278
Indonesia	Sanga-Sanga (direct) ^c	26.3	137	110	84	75	69
	Other ^c	46.0	144	128	80	81	98
Sharjah	Sajaa ^c	40.0	103	113	111	83	65
	Other	40.0	14	10	9	9	8
Azerbaijan	Shah Deniz ^c	25.5	–	–	–	73	143
Trinidad & Tobago	Kapok ^c	100.0	553	1,005	946	984	619
	Mahogany ^c	100.0	453	303	321	454	323
	Amherstia ^c	100.0	408	289	176	155	288
	Parang ^c	100.0	137	154	120	–	–
	Immortelle ^c	100.0	172	132	219	153	136
	Cassia ^c	100.0	85	83	30	25	5
	Other ^c	100.0	111	21	453	663	1,075
Other ^b	Various	Various	308	459	441	466	421
			3,576	3,768	4,009	4,251	4,338
Total group^e			7,624	7,512	7,412	7,222	7,277
Equity-accounted entities (BP share)							
Argentina – Pan American Energy	Various	Various	317	343	362	379	385
Russia – TNK-BP ^b	Various	Various	458	482	544	451	564
Other ^b	Various	Various	104	87	99	91	108
Total equity-accounted entities^e			879	912	1,005	921	1,057
Total group and BP share of equity-accounted entities^e			8,503	8,424	8,417	8,143	8,334

^a Production excludes royalties due to others whether payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b In 2008, BP concluded the migration of the Cerro Negro operations to an incorporated joint venture with PDVSA while retaining its equity position and TNK-BP disposed of some non-core interests. In 2007, BP divested its producing properties in the Netherlands and some producing properties in the US Lower 48 and Canada. TNK-BP disposed of its interests in several non-core properties.

In 2006, BP divested its producing properties on the Outer Continental Shelf of the Gulf of Mexico and its interest in the Statfjord oil and gas field in the UK. Our interests in the Boqueron, Desarollo Zulia Occidental (DZO) and Jusepin projects in Venezuela were reduced following a decision by the Venezuelan government. TNK-BP disposed of its non-core interests in the Udmurtneft assets.

^c BP-operated.

^d Includes four million and seven million cubic feet per day of natural gas received as in-kind tariff payments in 2005 and 2004 respectively.

^e Natural gas production volumes exclude gas consumed in operations within the lease boundaries of the producing field, but the related reserves are included in the group's reserves.

Group production interests – oil and natural gas

Oil and natural gas production (net of royalty)

	thousand barrels oil equivalent per day				
	2004	2005	2006	2007	2008
US	1,142	1,051	957	888	910
Europe	631	559	491	389	351
Russia	910	994	970	910	923
Rest of World	1,314	1,410	1,508	1,631	1,654
Total group including equity-accounted entities	3,997	4,014	3,926	3,818	3,838

BP average liquids realizations^a

	\$ per barrel				
US	35.41	47.83	57.25	64.18	89.22
Europe	36.25	50.88	62.03	69.42	90.60
Rest of World	34.51	47.56	59.54	69.56	91.05
BP average	35.39	48.51	59.23	67.45	90.20

^a Crude oil and NGLs.

BP average natural gas realizations

	\$ thousand cubic feet				
US	5.11	6.78	5.74	5.43	6.77
Europe	4.28	5.47	6.35	6.38	8.37
Rest of World	2.74	3.46	3.70	3.71	5.19
BP average	3.86	4.90	4.72	4.53	6.00

Exploration interests

By geographical area

At 31 December	Oil and natural gas acreage thousand acres											
	Undeveloped ^a		2004 Developed		Undeveloped ^a		2005 Developed		Undeveloped ^a		2006 Developed	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
UK	2,484	1,329	507	222	2,325	1,232	500	218	2,100	1,154	433	203
Rest of Europe	2,972	1,120	138	46	1,668	618	138	46	1,053	339	138	44
US	7,524	5,388	7,211	4,844	7,169	5,136	7,059	4,738	6,809	4,797	7,392	4,725
Rest of Americas	23,506	12,804	2,410	1,272	13,893	6,913	2,728	1,304	12,436	5,861	3,161	1,470
Asia Pacific	9,615	3,794	671	208	7,977	3,020	1,072	262	7,765	2,939	1,072	262
Africa	10,203	5,318	231	131	16,917	10,237	534	235	16,215	9,764	477	211
Russia	13,810	5,715	4,151	1,821	13,783	5,702	4,206	1,848	13,778	5,694	3,991	1,728
Others	14,822	3,305	1,590	156	13,455	2,445	1,860	417	18,684	7,677	1,865	419
	84,936	38,773	16,909	8,700	77,187	35,303	18,097	9,068	78,840	38,225	18,529	9,062

	Oil and natural gas acreage thousand acres							
	Undeveloped ^a		2007 Developed		Undeveloped ^a		2008 Developed	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
UK	1,696	967	428	201	1,615	916	390	193
Rest of Europe	505	227	143	34	519	234	64	18
US	6,451	4,574	7,414	4,742	7,733	5,332	7,657	4,783
Rest of Americas	11,529	5,912	2,793	1,310	15,586	9,081	3,151	1,414
Asia Pacific	7,450	2,782	1,235	319	7,433	2,782	1,251	327
Africa	15,759	9,755	541	225	21,524	16,009	500	212
Russia	13,821	5,777	4,071	1,768	10,079	4,544	4,072	1,768
Others	14,412	5,969	1,870	690	14,832	6,098	1,876	692
	71,623	35,963	18,495	9,289	79,321	44,996	18,961	9,407

^a Undeveloped acreage includes leases and concessions.

Exploration and development wells

	2004		2005		2006		2007		2008	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Productive wells drilled										
Exploration										
US	4	2.1	24	10.7	7	2.9	6	4.1	7	2.4
Europe	–	–	2	1.3	2	0.2	4	1.6	5	0.8
Rest of World	49	20.2	45	18.8	59	21.7	60	25.4	50	22.3
	53	22.3	71	30.8	68	24.8	70	31.1	62	25.5
Development										
US	979	513.3	836	473.9	984	418.8	842	401.2	735	379.8
Europe	33	10.3	48	14.1	17	6.5	7	1.2	15	7.1
Rest of World	790	342.5	977	417.2	1,025	431.9	720	336.9	518	219.3
	1,802	866.1	1,861	905.2	2,026	857.2	1,569	739.3	1,268	606.2
Dry wells drilled										
Exploration										
US	5	3.2	10	6.4	11	7.4	2	0.7	2	0.9
Europe	–	–	1	0.3	–	–	1	–	1	0.5
Rest of World	23	9.8	17	7.8	20	9.0	25	12.5	58	27.0
	28	13.0	28	14.5	31	16.4	28	13.2	61	28.4
Development										
US	4	3.0	10	5.0	8	4.5	8	4.2	2	1.1
Europe	1	0.1	1	0.3	–	–	2	0.6	1	0.2
Rest of World	34	14.9	46	22.7	60	27.0	30	18.3	65	26.9
	39	18.0	57	28.0	68	31.5	40	23.1	68	28.2

Number of productive wells at 31 December 2008

	US	Europe	Rest of World	Total
Oil wells ^a				
Gross	5,960	354	26,227	32,541
Net	2,120	172	11,446	13,738
Natural gas wells ^b				
Gross	20,913	310	3,069	24,292
Net	11,948	142	1,719	13,809

^a Includes approximately 966 gross (255 net) multiple completion wells (more than one formation producing into the same well bore).

^b Includes approximately 2,631 gross (1,737 net) multiple completion wells. If one of the multiple completions in a well is an oil completion, the well is classified as an oil well.

Drilling and production activities in progress at 31 December 2008^a

	US	Europe	Rest of World	Total
Exploratory				
Gross	27	2	20	49
Net	12.8	0.2	10.9	23.9
Development				
Gross	480	10	90	580
Net	291.5	5.3	38.5	335.3

^a Includes suspended development and exploratory wells.

Liquefied natural gas projects

Liquefaction project participation

Country	Project/train	Gross capacity (mtpa)	BP % equity	BP net capacity (mtpa)	Market served
Trinidad & Tobago	Atlantic LNG Train 1	3.3	34.0	1.1	US, Spain
	Atlantic LNG Trains 2-3	6.7	42.5	2.8	US, Spain
	Atlantic LNG Train 4	5.2	37.8	2.0	US, Dominican Republic
Australia	North West Shelf Trains 1-5	16.3	16.7	2.7	Japan, China, Korea
Abu Dhabi	ADGAS Trains 1-3	5.8	10.0	0.6	Japan
Total		37.3		9.2	

Regasification terminal participation

Country	Facility	Gross capacity (million standard cubic feet/d)	BP % equity	BP net ownership (million standard cubic feet/d)	BP capacity rights (million standard cubic feet/d)
Spain	Bahia de Bizkaia (Bilbao)	700	25.0	175	54
China	Dapeng LNG (Guangdong)	860	30.0	258	–
US	Cove Point	720	–	–	240
	Elba Island	440	–	–	160
UK	Isle of Grain	450	–	–	225
Total		3,170		433	679

Equity gas production into LNG plant

	Trinidad & Tobago Atlantic LNG Trains 1-4	Australia North West Shelf Trains 1-5	Indonesia Bontang Tangguh Ph1	Egypt SEGAS Train 1	BP total (million standard cubic feet/d)
2004	1,155	224	182	–	1,561
2005	1,159	283	139	–	1,581
2006	1,490	281	110	–	1,881
2007	1,594	281	98	–	1,973
2008	1,605	353	152	48	2,158

LNG shipping^a

Vessel name	Status	Ownership	Delivery date	Capacity (m ³)
British Trader	Operational	Operating lease	4Q 2002	138,000
British Innovator	Operational	Operating lease	1Q 2003	138,000
British Merchant	Operational	Operating lease	3Q 2003	138,000
British Emerald	Operational	Operating lease	3Q 2007	155,000
British Ruby	Operational	Operating lease	3Q 2008	155,000
British Sapphire	Operational	Operating lease	3Q 2008	155,000
British Diamond	Operational	Operating lease	4Q 2008	155,000
LNG Ebisu	Operational	Two-year time-charter	3Q 2008	147,200
Total				1,181,200

^a Excludes shipping owned and operated within joint-venture projects.