



Supplementary Information  
on Oil and Gas  
Exploration and Production Activities



## Supplementary information on oil and gas exploration and production activities

(Unaudited information)

### Capitalised costs

Capitalised costs represent the historical costs capitalised to assets with proved and non-proved oil and gas reserves, including auxiliary equipment and facilities, and the related accumulated depreciation and accumulated impairment losses.

	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia
<b>AT 31 DECEMBER 2007</b> <span style="float: right;">Millions of euros</span>								
Costs capitalised to assets with proved reserves	24,002	359	18,241	1,171	2,149	974	523	585
Costs capitalised to assets with non proved reserves	1,999	–	169	198	336	1,122	160	14
	<b>26,001</b>	<b>359</b>	<b>18,410</b>	<b>1,369</b>	<b>2,485</b>	<b>2,096</b>	<b>683</b>	<b>599</b>
Auxiliary equipment and facilities	2,047	425	356	426	507	79	197	57
<b>Total capitalised costs</b>	<b>28,048</b>	<b>784</b>	<b>18,766</b>	<b>1,795</b>	<b>2,992</b>	<b>2,175</b>	<b>880</b>	<b>656</b>
Accumulated depreciation and impairment losses	(16,699)	(665)	(13,272)	(576)	(1,168)	(4)	(410)	(604)
<b>Net amounts</b>	<b>11,349</b>	<b>119</b>	<b>5,494</b>	<b>1,219</b>	<b>1,824</b>	<b>2,171</b>	<b>470</b>	<b>52</b>
<b>AT 31 DECEMBER 2008</b> <span style="float: right;">Millions of euros</span>								
Costs capitalised to assets with proved reserves	26,553	383	20,638	1,271	2,227	1,282	704	48
Costs capitalised to assets with non proved reserves	2,357	10	99	165	300	1,366	410	7
	<b>28,910</b>	<b>394</b>	<b>20,737</b>	<b>1,436</b>	<b>2,527</b>	<b>2,648</b>	<b>1,114</b>	<b>55</b>
Auxiliary equipment and facilities	1,941	426	397	544	273	83	217	1
<b>Total capitalised costs</b>	<b>30,851</b>	<b>819</b>	<b>21,134</b>	<b>1,980</b>	<b>2,800</b>	<b>2,731</b>	<b>1,331</b>	<b>56</b>
Accumulated depreciation and impairment losses	(18,509)	(688)	(15,294)	(762)	(1,210)	(45)	(509)	(1)
<b>Net amounts</b>	<b>12,342</b>	<b>131</b>	<b>5,840</b>	<b>1,218</b>	<b>1,590</b>	<b>2,686</b>	<b>822</b>	<b>55</b>
<b>AT 31 DECEMBER 2009</b> <span style="float: right;">Millions of euros</span>								
Costs capitalised to assets with proved reserves	26,789	338	20,532	1,218	2,516	1,324	807	54
Costs capitalised to assets with non proved reserves	2,588	103	81	222	532	1,267	376	7
	<b>29,377</b>	<b>441</b>	<b>20,613</b>	<b>1,440</b>	<b>3,048</b>	<b>2,591</b>	<b>1,183</b>	<b>61</b>
Auxiliary equipment and facilities	1,759	48	368	598	245	282	217	1
<b>Total capitalised costs</b>	<b>31,136</b>	<b>489</b>	<b>20,981</b>	<b>2,038</b>	<b>3,293</b>	<b>2,873</b>	<b>1,400</b>	<b>62</b>
Accumulated depreciation and impairment losses	(19,401)	(352)	(15,692)	(876)	(1,575)	(355)	(550)	(1)
<b>Net amounts</b>	<b>11,735</b>	<b>137</b>	<b>5,289</b>	<b>1,162</b>	<b>1,718</b>	<b>2,518</b>	<b>850</b>	<b>61</b>

As of 31 December 2009 and 2008, Repsol YPF Group's share in oil and gas exploration and production activities from equity method investees' amounted to EUR 7 million.

### Costs incurred

The costs incurred represent amounts capitalised or charged to profit during the year relating to acquisitions of assets with oil and gas reserves and exploration and development activities.

	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia
<b>AT 31 DECEMBER 2007</b> <span style="float: right;">Millions of euros</span>								
Acquisitions of assets with proved reserves	119	–	–	–	–	119	–	–
Acquisitions of assets with non proved reserves	175	–	–	–	–	175	–	–
Exploration costs	750	20	114	4	205	126	247	34
Development costs	1,834	43	1,012	210	147	280	110	32
<b>TOTAL</b>	<b>2,878</b>	<b>63</b>	<b>1,126</b>	<b>214</b>	<b>352</b>	<b>700</b>	<b>357</b>	<b>66</b>
<b>AT 31 DECEMBER 2008</b> <span style="float: right;">Millions of euros</span>								
Acquisitions of assets with proved reserves	103	–	–	–	1	–	102	–
Acquisitions of assets with non proved reserves	110	–	–	–	–	–	110	–
Exploration costs	871	47	128	7	148	205	307	29
Development costs	1,782	17	1,266	89	79	273	48	10
<b>TOTAL</b>	<b>2,866</b>	<b>64</b>	<b>1,394</b>	<b>96</b>	<b>228</b>	<b>478</b>	<b>567</b>	<b>39</b>
<b>AT 31 DECEMBER 2009</b> <span style="float: right;">Millions of euros</span>								
Acquisitions of assets with proved reserves	6	–	–	–	6	–	–	–
Acquisitions of assets with non proved reserves	61	–	–	–	57	4	–	–
Exploration costs	875	119	104	4	283	130	208	27
Development costs	1,240	23	715	112	108	212	64	6
<b>TOTAL</b>	<b>2,182</b>	<b>142</b>	<b>819</b>	<b>116</b>	<b>454</b>	<b>346</b>	<b>272</b>	<b>33</b>

As of 31 December 2009 and 2008, Repsol YPF Group's share in investments made in oil and gas exploration and production activities from equity method investees amounted to EUR 10 and 23 million, respectively.

### Results of oil and gas production activities

The following table shows the income and expenses associated directly with the Group's oil and gas production activities. It does not include any allocation of the finance costs or general expenses and, therefore, is not necessarily indicative of the contribution to consolidated net profit of the oil and gas activities.

	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia
<b>2007</b>								
<b>INCOME</b>								
Millions of euros								
Sales to non-Group companies	2,702	–	835	631	1,148	4	2	82
Sales between business segments and to Group companies	4,431	39	3,278	296	241	–	567	10
Other income	1,091	–	–	–	45	–	1,046	–
<b>TOTAL INCOME</b>	<b>8,224</b>	<b>39</b>	<b>4,113</b>	<b>927</b>	<b>1,434</b>	<b>4</b>	<b>1,615</b>	<b>92</b>
Production costs (1)	(2,680)	(16)	(1,513)	(333)	(632)	(1)	(138)	(47)
Exploration expenses	(592)	(18)	(109)	(24)	(121)	(136)	(153)	(31)
Other operating expenses	(357)	(7)	(292)	(6)	(50)	(2)	–	–
Depreciation and amortisation charge	(1,682)	(11)	(1,191)	(141)	(260)	(2)	(65)	(12)
<b>Profit (Loss) before taxes and charges</b>	<b>2,913</b>	<b>(13)</b>	<b>1,008</b>	<b>423</b>	<b>371</b>	<b>(137)</b>	<b>1,259</b>	<b>2</b>
Taxes and charges	(1,792)	5	(469)	(238)	(124)	35	(978)	(23)
<b>Results of oil and gas production activities (2)</b>	<b>1,121</b>	<b>(8)</b>	<b>539</b>	<b>185</b>	<b>247</b>	<b>(102)</b>	<b>281</b>	<b>(21)</b>
<b>2008</b>								
Millions of euros								
<b>INCOME</b>								
Sales to non-Group companies	2,648	–	871	800	901	42	34	–
Sales between business segments and to Group companies	4,378	47	2,745	491	384	37	674	–
Other income	1,225	–	–	–	55	–	1,170	–
<b>TOTAL INCOME</b>	<b>8,251</b>	<b>47</b>	<b>3,616</b>	<b>1,291</b>	<b>1,340</b>	<b>79</b>	<b>1,878</b>	<b>–</b>
Production costs (1)	(2,941)	(18)	(1,771)	(387)	(582)	(13)	(170)	–
Exploration expenses	(571)	(33)	(132)	(3)	(116)	(55)	(194)	(38)
Other operating expenses	(539)	(6)	(199)	(5)	(46)	–	(283)	–
Depreciation and amortisation charge	(1,657)	(7)	(1,181)	(148)	(209)	(40)	(72)	–
<b>Profit (Loss) before taxes and charges</b>	<b>2,543</b>	<b>(17)</b>	<b>333</b>	<b>748</b>	<b>387</b>	<b>(29)</b>	<b>1,159</b>	<b>(38)</b>
Taxes and charges	(1,623)	5	(153)	(394)	(97)	15	(1,010)	11
<b>Results of oil and gas production activities (2)</b>	<b>920</b>	<b>(12)</b>	<b>180</b>	<b>354</b>	<b>290</b>	<b>(14)</b>	<b>149</b>	<b>(27)</b>
<b>2009</b>								
Millions of euros								
<b>INCOME</b>								
Sales to non-Group companies	1,560	–	622	323	545	35	35	–
Sales between business segments and to Group companies	4,289	34	2,872	401	332	412	238	–
Other income	446	–	–	–	33	–	413	–
<b>TOTAL INCOME</b>	<b>6,295</b>	<b>34</b>	<b>3,494</b>	<b>724</b>	<b>910</b>	<b>447</b>	<b>686</b>	<b>–</b>
Production costs (1)	(2,365)	(17)	(1,563)	(295)	(365)	(35)	(90)	–
Exploration expenses	(466)	(26)	(100)	(4)	(103)	(50)	(154)	(29)
Other operating expenses	(230)	–	(187)	(3)	(38)	(1)	(1)	–
Depreciation and amortisation charge	(1,895)	(10)	(1,143)	(151)	(202)	(323)	(66)	–
<b>Profit (Loss) before taxes and charges</b>	<b>1,339</b>	<b>(19)</b>	<b>501</b>	<b>271</b>	<b>202</b>	<b>38</b>	<b>375</b>	<b>(29)</b>
Taxes and charges	(643)	12	(232)	(148)	20	(20)	(284)	9
<b>Results of oil and gas production activities (2)</b>	<b>696</b>	<b>(7)</b>	<b>269</b>	<b>123</b>	<b>222</b>	<b>18</b>	<b>91</b>	<b>(20)</b>

(1) Production costs include local taxes, production taxes and other similar payments, as well as withholdings on exports of crude oil from Argentina amounting €1,365, €1,477 and €995 million in 2007, 2008, and 2009, respectively. It also includes transport and other costs in 2007, 2008 and 2009 totalling €184, €223 and €189 million, respectively.

(2) The results do not show the income and expenses associated with the impairment provisions accounted as a result of the comparison between market value (discounted cash flows) from proved and non-proved reserves (the latter of which are subject to a risk factor) of oil and gas from each field owned by the Company at year-end and the carrying amount of the assets associated therewith, which represented a net expense of €16 million in 2007 and a net income of €51 and €134 million in 2008 and 2009, respectively.

## Estimated proved net developed and undeveloped oil and gas reserves:

The tables below reflect the net developed and undeveloped proved reserves of crude oil, condensed oil and LPG and natural gas as of December 31, 2007, 2008 and 2009, and the variations therein. Proved reserves shown includes the reserves equivalent to the economic income obtained under certain production sharing contracts entered into as of December 31, 2007, 2008 and 2009.

In determining net reserves, we exclude from our reported reserves royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and is able to make lifting and sales arrangements independently. By contrast, to the extent that royalty payments required to be made to a third party, whether payable in cash or in kind, are a financial obligation, or are substantially equivalent to a production or severance tax, the related reserves are not excluded from our reported reserves despite the fact that such payments are referred to as “royalties” under local rules. We follow the same methodology in reporting our production amounts.

Proved reserves in each year were estimated by the Company and third party independent engineers in accordance with the rules and regulations established for the petroleum and gas industry by Regulation S-X and Regulation S-K, as amended by the new oil & gas activities disclosure rules adopted by the U.S. Securities and Exchange Commission (SEC), with effect from January 1, 2010. Modernization of Oil and Gas Reporting. (Release Nos. 33-8995; 34-59192: FR No. S7-15-08) and the accounting principles laid down by the “Financial Accounting Standards Board” which govern accounting and financial reporting practices in the U.S.. In accordance with these rules, proved oil and gas reserves are those quantities of oil and gas, which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible – from a given date forward, from known reservoirs, and under existing economic conditions, operating methods, and government regulations – prior to the time at which contracts providing the right to operate expire, regardless of whether deterministic or probabilistic methods are used for the estimation. The project to extract the hydrocarbons must have commenced or the operator must be reasonable certain that it will commence the project within a reasonable time.

PROVED DEVELOPED AND UNDEVELOPED RESERVES OF CRUDE OIL, CONDENSATE GPL:									Thousands of barrels
	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia	
<b>Reserves at December 31, 2006 (1)</b>	<b>1,059,356</b>	<b>3,117</b>	<b>676,356</b>	<b>50,652</b>	<b>149,115</b>	<b>46,473</b>	<b>132,085</b>	<b>1,558</b>	
Revisions of previous estimates	28,860	486	45,667	2,949	(22,472)	1,445	523	262	
Improved recovery	7,557	–	7,551	–	6	–	–	–	
Extensions and discoveries	26,696	–	9,550	–	3,068	–	14,078	–	
Purchases of minerals in place	5,283	–	–	–	–	5,283	–	–	
Sales of minerals in place	–	–	–	–	–	–	–	–	
Production (1)	(176,174)	(731)	(120,286)	(6,150)	(26,104)	(28)	(21,055)	(1,820)	
<b>Reserves at December 31, 2007 (1)</b>	<b>951,577</b>	<b>2,872</b>	<b>618,838</b>	<b>47,451</b>	<b>103,613</b>	<b>53,173</b>	<b>125,631</b>	<b>–</b>	
Revisions of previous estimates	63,424	(701)	35,395	4,616	12,195	(3,993)	15,912	–	
Improved recovery	21,398	–	21,398	–	–	–	–	–	
Extensions and discoveries	29,153	–	19,772	–	2,007	–	7,374	–	
Purchases of minerals in place	–	–	–	–	–	–	–	–	
Sales of minerals in place	(1,125)	–	–	–	(1,125)	–	–	–	
Production (1)	(162,092)	(653)	(114,577)	(6,470)	(19,153)	(1,109)	(20,130)	–	
<b>Reserves at December 31, 2008 (1) (2)</b>	<b>902,335</b>	<b>1,518</b>	<b>580,826</b>	<b>45,597</b>	<b>97,537</b>	<b>48,071</b>	<b>128,787</b>	<b>–</b>	
Revisions of previous estimates	96,038	1,578	38,428	569	25,562	20,478	9,423	–	
Improved recovery	14,651	–	14,651	–	–	–	–	–	
Extensions and discoveries	25,736	3,708	14,591	–	259	7,178	–	–	
Purchases of minerals in place	4,324	–	–	–	4,324	–	–	–	
Sales of minerals in place	–	–	–	–	–	–	–	–	
Production (1)	(159,812)	(516)	(110,044)	(6,201)	(19,136)	(9,280)	(14,635)	–	
<b>Reserves at December 31, 2009 (1) (2)</b>	<b>883,272</b>	<b>6,288</b>	<b>538,452</b>	<b>39,965</b>	<b>108,546</b>	<b>66,447</b>	<b>123,575</b>	<b>–</b>	

PROVED DEVELOPED RESERVES OF CRUDE OIL, CONDENSATE AND GPL									Thousands of barrels
	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia	
At December 31, 2006	777,746	3,117	522,899	36,965	109,676	22	103,509	1,558	
At December 31, 2007	667,592	2,663	460,929	35,807	77,404	192	90,597	–	
At December 31, 2008	651,906	1,308	451,586	33,889	78,401	2,785	83,937	–	
At December 31, 2009	656,614	2,259	429,039	32,537	85,943	29,361	77,475	–	

Note: The aggregated changes in reserves and total reserves at December 31 may differ from the individual values shown because the calculations use more precise figures than those shown in the table.

(1) Total proved developed and undeveloped net reserves at December 31, 2009, 2008, 2007 and 2006 include an estimated approximately 94,016, 94,432, 94,753 and 117,075 thousands of barrels of oil equivalent, respectively, in respect of royalty payments which, as described above, are a financial obligation, or are substantially equivalent to a production or similar tax. Net production in 2009, 2008 and 2007 includes an estimated approximately 16,398, 16,995 and 18,056 thousands of barrels of oil equivalent, respectively, in respect of such types of payments.

(2) Includes 86,091 and 92,871 thousands of barrels of oil equivalent relating to the participation in the minority interest of YPF, as of December 31, 2009 and 2008, respectively.

PROVED DEVELOPED AND UNDEVELOPED RESERVES OF NATURAL GAS:									Millions of Standard Cubic Feet
	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia	
<b>Reserves at December 31, 2006 (1)</b>	<b>8,718,328</b>	<b>–</b>	<b>4,081,202</b>	<b>3,035,361</b>	<b>1,410,712</b>	<b>24,092</b>	<b>166,961</b>	<b>–</b>	
Revisions of previous estimates	566,784	–	318,273	15,938	279,426	(9,685)	(37,168)	–	
Improved recovery	47	–	47	–	–	–	–	–	
Extensions and discoveries	9,897	–	9,266	–	631	–	–	–	
Purchases of minerals in place	1,706	–	–	–	–	1,706	–	–	
Sales of minerals in place	–	–	–	–	–	–	–	–	
Production (1)	(1,140,605)	–	(655,050)	(267,917)	(195,806)	(523)	(21,309)	–	
<b>Reserves at December 31, 2007 (1)</b>	<b>8,156,157</b>	<b>–</b>	<b>3,753,738</b>	<b>2,783,382</b>	<b>1,494,963</b>	<b>15,590</b>	<b>108,484</b>	<b>–</b>	
Revisions of previous estimates	98,944	5,506	(116,363)	(24,562)	159,219	(2,214)	77,358	–	
Improved recovery	2,852	–	2,852	–	–	–	–	–	
Extensions and discoveries	129,219	–	128,746	–	–	–	473	–	
Purchases of minerals in place	–	–	–	–	–	–	–	–	
Sales of minerals in place	–	–	–	–	–	–	–	–	
Production (1)	(1,046,081)	(374)	(624,264)	(274,888)	(124,218)	(1,100)	(21,237)	–	
<b>Reserves at December 31, 2008 (1) (2)</b>	<b>7,341,091</b>	<b>5,132</b>	<b>3,144,709</b>	<b>2,483,932</b>	<b>1,529,964</b>	<b>12,276</b>	<b>165,078</b>	<b>–</b>	
Revisions of previous estimates	289,767	–	53,125	32,005	230,062	5,185	(30,610)	–	
Improved recovery	1,298	–	1,298	–	–	–	–	–	
Extensions and discoveries	70,387	–	68,346	–	–	2,041	–	–	
Purchases of minerals in place	–	–	–	–	–	–	–	–	
Sales of minerals in place	–	–	–	–	–	–	–	–	
Production (1)	(958,278)	(2,263)	(548,510)	(276,600)	(103,528)	(3,683)	(23,694)	–	
<b>Reserves at December 31, 2009 (1) (2)</b>	<b>6,744,265</b>	<b>2,869</b>	<b>2,718,968</b>	<b>2,239,337</b>	<b>1,656,498</b>	<b>15,819</b>	<b>110,774</b>	<b>–</b>	

PROVED DEVELOPED RESERVES OF NATURAL GAS								
	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia
At December 31, 2006	4,463,161	–	2,620,643	926,308	818,465	3,073	94,672	–
At December 31, 2007	4,112,160	–	2,468,611	649,601	923,574	2,620	67,754	–
At December 31, 2008	3,741,552	5,132	2,264,946	374,713	1,007,425	3,269	86,067	–
At December 31, 2009	4,512,529	2,869	2,149,002	1,057,943	1,228,058	9,101	65,556	–

Note: The aggregated changes in reserves and total reserves at December 31, may differ from the individual values shown because the calculations use more precise figures than those shown in the table.

(1) Total proved developed and undeveloped net reserves at December 31, 2009, 2008, 2007 and 2006 include an estimated approximately 812,010, 699,671, 731,916 and 767,903 millions standard cubic feet of gas, respectively, in respect of royalty payments which, as described above, are a financial obligation, or are substantially equivalent to a production or similar tax. Net production in 2009, 2008 and 2007 includes an estimated approximately 79,794, 85,152 and 88,521 millions standard cubic feet of gas, respectively, in respect of such types of payments.

(2) Includes 434,308 and 502,252 millions standard cubic feet of gas relating to the participation in the minority interest of YPF, as of December 31, 2009 and 2008, respectively.

PROVED DEVELOPED AND UNDEVELOPED RESERVES OF CRUDE OIL, CONDENSATE, NATURAL GAS LIQUIDS AND NATURAL GAS:	Thousands of Barrels of Oil Equivalent							
	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa	Asia
<b>Reserves at December 31, 2006 (1)</b>	<b>2,612,042</b>	<b>3,117</b>	<b>1,403,195</b>	<b>591,232</b>	<b>400,356</b>	<b>50,764</b>	<b>161,820</b>	<b>1,558</b>
Revisions of previous estimates	129,801	486	102,350	5,788	27,292	(280)	(6,097)	262
Improved recovery	7,566	–	7,560	–	6	–	–	–
Extensions and discoveries	28,458	–	11,200	–	3,180	–	14,078	–
Purchases of minerals in place	5,587	–	–	–	–	5,587	–	–
Sales of minerals in place	–	–	–	–	–	–	–	–
Production (1)	(379,310)	(732)	(236,947)	(53,864)	(60,976)	(121)	(24,850)	(1,820)
<b>Reserves at December 31, 2007 (1)</b>	<b>2,404,144</b>	<b>2,871</b>	<b>1,287,358</b>	<b>543,156</b>	<b>369,858</b>	<b>55,950</b>	<b>144,951</b>	<b>–</b>
Revisions of previous estimates	81,045	279	14,671	242	40,551	(4,387)	29,689	–
Improved recovery	21,906	–	21,906	–	–	–	–	–
Extensions and discoveries	52,165	–	42,700	–	2,007	–	7,458	–
Purchases of minerals in place	–	–	–	–	–	–	–	–
Sales of minerals in place	(1,125)	–	–	–	(1,125)	–	–	–
Production (1)	(348,393)	(720)	(225,755)	(55,426)	(41,275)	(1,305)	(23,912)	–
<b>Reserves at December 31, 2008 (1) (2)</b>	<b>2,209,742</b>	<b>2,430</b>	<b>1,140,880</b>	<b>487,972</b>	<b>370,016</b>	<b>50,258</b>	<b>158,186</b>	<b>–</b>
Revisions of previous estimates	147,644	1,578	47,889	6,269	66,535	21,401	3,972	–
Improved recovery	14,882	–	14,882	–	–	–	–	–
Extensions and discoveries	38,271	3,708	26,763	–	259	7,541	–	–
Purchases of minerals in place	4,324	–	–	–	4,324	–	–	–
Sales of minerals in place	–	–	–	–	–	–	–	–
Production (1)	(330,476)	(919)	(207,731)	(55,462)	(37,574)	(9,935)	(18,855)	–
<b>Reserves at December 31, 2009 (1) (2)</b>	<b>2,084,388</b>	<b>6,797</b>	<b>1,022,684</b>	<b>438,779</b>	<b>403,560</b>	<b>69,265</b>	<b>143,303</b>	<b>–</b>
<b>PROVED DEVELOPED RESERVES OF CRUDE OIL, CONDENSATE, NATURAL GAS LIQUIDS AND NATURAL GAS</b>								
At December 31, 2006	1,572,610	3,117	989,621	201,935	255,440	569	120,370	1,558
At December 31, 2007	1,399,944	2,663	900,574	151,498	241,888	658	102,663	–
At December 31, 2008	1,318,255	2,222	854,960	100,623	257,818	3,367	99,265	–
At December 31, 2009	1,460,269	2,770	811,764	220,950	304,653	30,982	89,150	–

Note 1: The aggregated changes in reserves and total reserves at December 31, may differ from the individual values shown because the calculations use more precise figures than those shown in the table.

(1) Total proved developed and undeveloped net reserves at December 31, 2009, 2008, 2007 and 2006 include an estimated approximately 238,630, 219,039, 225,103 and 253,834 thousands of barrels of oil equivalent, respectively, in respect of royalty payments which, as described above, are a financial obligation, or are substantially equivalent to a production or similar tax. Net production in 2009, 2008 and 2007 includes an estimated approximately 30,609, 32,160 and 33,821 thousands of barrels of oil equivalent, respectively, in respect of such types of payments.

(2) Includes 163,439 and 182,319 thousands of barrels of oil equivalent relating to the participation in the minority interest of YPF, as of December 31, 2009 and 2008, respectively.

## Standardized measure of discounted future net cash flows and changes therein relating to proved oil and gas reserves

The estimate of future net cash flows was performed in accordance with the rules and regulations established for the oil and gas industry by the U.S. Securities and Exchange Commission and the accounting principles laid down by the Financial Accounting Standards Board of the U.S. which govern stock market information practices in the U.S.A.. The method applied is the impartiality or fairness method and is the result of applying the average oil and gas prices in 2009 (considering price changes only by contractual agreement) to estimated future production of proved reserves of oil and gas as of the date of the last balance sheet filed, less the estimated future costs (based on current costs) to be incurred in the development and production of proved reserves, assuming the continuation of current economic conditions.

Future production costs were estimated on the basis of actual costs borne in 2007, 2008 and 2009. Future development costs were calculated on the basis of technical studies conducted by Repsol YPF and by the operators holding joint title with Repsol YPF. The taxes projected for each of the future years were determined by applying the applicable nominal tax rate, reduced by the tax benefits available to the Company in each of the years. The rate used to discount the future net revenues was 10%.

The present value of the future net cash flows estimated on the basis of the aforementioned assumptions, applying the principle of impartiality, is not intended to be interpreted, and should not be interpreted, as the fair value of the Group's oil and gas reserves. An estimation of the fair value of these reserves should also include the future exploitation of reserves not yet classified as proved reserves, possible changes in future prices and costs and a discount rate which represents the time value of money at the calculation date and the uncertainties inherent to estimating the reserves.

The following table shows the present value of the future net revenues relating to proved oil and gas reserves, calculated on the basis of the aforementioned assumptions:

	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa
Millions of euros							
<b>At December 31, 2007</b>							
Future cash inflows	61,575	1,795	26,582	9,331	7,692	3,407	12,768
Future production and abandonment costs	(18,940)	(857)	(8,889)	(3,422)	(3,238)	(526)	(2,008)
Future development costs	(3,808)	(256)	(1,021)	(1,675)	(322)	(369)	(165)
Future income tax expenses	(15,359)	(260)	(4,849)	(2,091)	(1,243)	(209)	(6,707)
Future net cash flows after taxes	23,468	422	11,823	2,143	2,889	2,303	3,888
10% annual discount for estimated timing of cash flows	(8,278)	(315)	(4,008)	(753)	(1,017)	(1,020)	(1,164)
<b>Standardized measure of discounted future net cash flows</b>	<b>15,190</b>	<b>107</b>	<b>7,815</b>	<b>1,390</b>	<b>1,872</b>	<b>1,283</b>	<b>2,724</b>
Millions of euros							
<b>At December 31, 2008</b>							
Future cash inflows	39,382	2,921	18,902	5,856	5,314	1,498	4,891
Future production and abandonment costs	(17,748)	(844)	(10,030)	(2,683)	(2,722)	(383)	(1,086)
Future development costs	(4,153)	(971)	(932)	(1,524)	(296)	(207)	(223)
Future income tax expenses	(5,207)	(342)	(1,651)	(419)	(645)	(10)	(2,140)
Future net cash flows after taxes	12,274	764	6,289	1,230	1,651	898	1,442
10% annual discount for estimated timing of cash flows	(4,528)	(778)	(1,657)	(603)	(590)	(342)	(558)
<b>Standardized measure of discounted future net cash flows (1)</b>	<b>7,746</b>	<b>(14)</b>	<b>4,632</b>	<b>627</b>	<b>1,061</b>	<b>556</b>	<b>884</b>
Millions of euros							
<b>At December 31, 2009</b>							
Future cash inflows	40,714	260	20,832	4,759	6,168	2,706	5,989
Future production and abandonment costs	(16,226)	(232)	(9,295)	(2,226)	(2,681)	(594)	(1,198)
Future development costs	(3,621)	(54)	(1,131)	(1,196)	(621)	(390)	(229)
Future income tax expenses	(6,595)	-	(2,561)	(473)	(717)	(9)	(2,835)
Future net cash flows after taxes	14,272	(26)	7,845	864	2,149	1,713	1,727
10% annual discount for estimated timing of cash flows	(4,502)	40	(2,189)	(300)	(897)	(491)	(665)
<b>Standardized measure of discounted future net cash flows (1)</b>	<b>9,770</b>	<b>14</b>	<b>5,656</b>	<b>564</b>	<b>1,252</b>	<b>1,222</b>	<b>1,062</b>

(1) Includes 905 and 741 million euro relating to the share of minority interest of YPF, as of December 31, 2009 and 2008.

### Changes in Standardized measure of discounted future net cash flows relating to proved oil and gas reserves

The detail of the changes in the standardized measure of discounted future net cash flows for 2007, 2008 and 2009 is as follows:

	Total	Europe	Argentina	Trinidad & Tobago	Rest of Latin America	North America	Africa
Millions of euros							
<b>Balance at 31 December 2006</b>	<b>13,541</b>	<b>101</b>	<b>7,471</b>	<b>1,224</b>	<b>1,837</b>	<b>812</b>	<b>2,096</b>
Changes due to sale or transfer prices or future production costs	7,301	211	1,635	1,442	459	681	2,873
Changes in future development costs	(1,477)	(155)	(176)	(798)	(112)	(161)	(75)
Oil and gas sales and transfers in the period	(3,965)	(26)	(2,201)	(336)	(409)	6	(999)
Net changes due to extensions, discoveries, and improvements in the recovery of reserves	987	-	171	-	55	-	761
Net changes due to purchases/sales of assets	138	-	-	-	-	138	-
Net changes due to revisions of reserves	1,159	46	1,165	133	42	(257)	30
Previously estimated development costs incurred in the year	826	-	381	73	148	161	63
Effect of discounting to a different date and exchange rate effect	(412)	(4)	(244)	(31)	(69)	4	(68)
Other non-specific changes	-	-	-	-	-	-	-
Changes in income tax	(2,907)	(67)	(387)	(319)	(78)	(100)	(1,956)
Net change	1,650	6	344	164	35	471	629
<b>Balance at 31 December 2007</b>	<b>15,191</b>	<b>107</b>	<b>7,815</b>	<b>1,388</b>	<b>1,872</b>	<b>1,283</b>	<b>2,725</b>
Changes due to sale or transfer prices or future production costs	(13,108)	288	(5,159)	(1,399)	(1,108)	(1,144)	(4,586)
Changes in future development costs	(1,515)	(434)	(522)	(294)	(30)	(139)	(96)
Oil and gas sales and transfers in the period	(5,592)	(40)	(2,340)	(700)	(618)	(79)	(1,815)
Net changes due to extensions, discoveries, and improvements in the recovery of reserves	650	-	468	-	62	-	120
Net changes due to purchases/sales of assets	3	-	-	-	3	-	-
Net changes due to revisions of reserves	264	81	340	(154)	32	(42)	7
Previously estimated development costs incurred in the year	1,159	-	508	144	120	317	70
Effect of discounting to a different date and exchange rate effect	2,262	14	1,156	201	271	234	386
Other non-specific changes	-	-	-	-	-	-	-
Changes in income tax	8,433	(30)	2,366	1,441	457	126	4,073
Net change	(7,444)	(121)	(3,183)	(761)	(811)	(727)	(1,841)
<b>Balance at 31 December 2008 (1)</b>	<b>7,746</b>	<b>(14)</b>	<b>4,632</b>	<b>627</b>	<b>1,061</b>	<b>556</b>	<b>884</b>
Changes due to sale or transfer prices or future production costs	3,327	5	2,091	(319)	529	267	754
Changes in future development costs	(476)	53	(445)	463	(330)	(182)	(35)
Oil and gas sales and transfers in the period	(3,063)	(23)	(1,776)	(367)	(315)	(111)	(471)
Net changes due to extensions, discoveries, and improvements in the recovery of reserves	782	39	502	-	7	134	100
Net changes due to purchases/sales of assets	19	(21)	-	-	40	-	-
Net changes due to revisions of reserves	1,302	(20)	643	28	169	372	110
Previously estimated development costs incurred in the year	900	3	384	221	78	147	67
Effect of discounting to a different date and exchange rate effect	343	(5)	190	29	48	39	42
Other non-specific changes	-	-	-	-	-	-	-
Changes in income tax	(1,110)	(3)	(565)	(118)	(35)	-	(389)
Net change	2,024	28	1,024	(63)	191	666	178
<b>Balance at 31 December 2009 (1)</b>	<b>9,770</b>	<b>14</b>	<b>5,656</b>	<b>564</b>	<b>1,252</b>	<b>1,222</b>	<b>1,062</b>

(1) Includes 905 and 741 million euro relating to the share of minority interest of YPF, as of December 31, 2009 and 2008.