

**Brazil**  
**Assessment Results Summary - Allocated Resources**

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

Code and Field Type	MFS	Prob. (0-1)	Undiscovered Resources											
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean

**Total: Assessed onshore portions of Brazil**

Oil Fields		1.00	18	57	119	61	26	90	214	101	1	3	8	4
Gas Fields							24	89	208	99	1	2	5	2
Total		1.00	18	57	119	61	51	179	422	200	1	5	14	6

**Total: Assessed offshore portions of Brazil**

Oil Fields		1.00	8,042	42,177	100,728	46,685	11,871	62,986	161,194	71,662	576	3,293	9,030	3,847
Gas Fields							22,135	108,620	268,383	122,545	658	3,643	10,034	4,274
Total		1.00	8,042	42,177	100,728	46,685	34,006	171,606	429,577	194,208	1,234	6,935	19,064	8,121

**Grand Total: Assessed portions of Brazil**

Oil Fields		1.00	8,060	42,234	100,848	46,746	11,897	63,076	161,408	71,764	577	3,296	9,039	3,851
Gas Fields							22,160	108,709	268,591	122,644	659	3,645	10,039	4,276
Total		1.00	8,060	42,234	100,848	46,746	34,057	171,785	429,999	194,408	1,236	6,940	19,078	8,127

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			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean

**6022 Foz do Amazonas Basin Province**

**602201 Neogene Total Petroleum System**

60220101 Amazon Delta and Submarine Fan Assessment Unit (0% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)

Oil Fields	10	1.00	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fields	60						7,628	27,785	58,079	29,840	71	271	620	298
Total			1.00	0	0	0	7,628	27,785	58,079	29,840	71	271	620	298

**6029 Sergipe-Alagoas Basin Province**

**602901 Neocomian to Turonian Composite Total Petroleum System**

60290101 Western Pre-Aptian Reservoirs Assessment Unit (70% of undiscovered oil fields and 70% of undiscovered gas fields allocated to ONSHORE Brazil)

Oil Fields	1	1.00	6	20	44	22	10	38	92	43	0	1	4	2
Gas Fields	6						21	67	151	74	0	1	3	1
Total			1.00	6	20	44	22	31	105	244	117	1	3	7

60290101 Western Pre-Aptian Reservoirs Assessment Unit (30% of undiscovered oil fields and 30% of undiscovered gas fields allocated to OFFSHORE Brazil)

Oil Fields	1	1.00	2	8	19	9	4	16	40	18	0	1	2	1
Gas Fields	6						9	29	65	32	0	1	1	1
Total			1.00	2	8	19	9	13	45	105	50	0	1	3

60290102 Late Cretaceous-Tertiary Deep-Water Sandstones Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)

Oil Fields	4	1.00	189	1,243	3,464	1,457	396	2,641	7,949	3,199	22	153	493	192
Gas Fields	24						927	4,213	11,612	4,968	39	181	532	218
Total			1.00	189	1,243	3,464	1,457	1,323	6,854	19,561	8,166	61	334	1,025

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Code and Field Type	MFS	Prob. (0-1)	Undiscovered Resources											
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
<b>6034 Espirito Santo Basin Province</b>														
<b>603401 Cretaceous Composite Total Petroleum System</b>														
60340101 Espirito Santo Shelf Assessment Unit (60% of undiscovered oil fields and 0% of undiscovered gas fields allocated to ONSHORE Brazil)														
Oil Fields	1	1.00	12	31	58	32	13	36	75	39	0	1	2	1
Gas Fields	6						0	0	0	0	0	0	0	0
Total			1.00	12	31	58	32	13	36	75	39	0	1	2
60340101 Espirito Santo Shelf Assessment Unit (40% of undiscovered oil fields and 0% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	1	1.00	8	20	39	22	8	24	50	26	0	0	1	1
Gas Fields	6						0	0	0	0	0	0	0	0
Total			1.00	8	20	39	22	8	24	50	26	0	0	1
60340102 Late Cretaceous-Tertiary Slide Blocks and Turbidites Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	6	1.00	285	2,035	5,948	2,437	599	4,336	13,619	5,365	34	252	843	322
Gas Fields	36						3,089	17,658	46,490	20,311	131	755	2,144	893
Total			1.00	285	2,035	5,948	2,437	3,688	21,994	60,109	25,677	165	1,007	2,986
60340103 Abrolhos Sub-Volcanic Structures Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	10	0.72	0	252	1,690	468	0	636	4,474	1,214	0	37	271	73
Gas Fields	60						0	4,692	23,873	7,332	0	198	1,081	323
Total			0.72	0	252	1,690	468	0	5,328	28,347	8,545	0	235	1,352

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			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
<b>6035 Campos Basin Province</b>														
<b>603501 Lagoa Feia-Carapebus Total Petroleum System</b>														
60350101 Late Cretaceous-Tertiary Turbidites Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	6	1.00	3,211	10,310	20,203	10,869	3,003	10,003	21,837	10,899	84	292	689	327
Gas Fields	36						398	2,547	7,215	3,018	8	54	166	66
Total			1.00	3,211	10,310	20,203	10,869	3,400	12,550	29,052	13,917	92	346	855
60350102 Cretaceous Carbonates Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	3	1.00	230	865	1,852	932	215	840	1,964	932	6	24	62	28
Gas Fields	18						130	689	1,898	811	3	15	43	18
Total			1.00	230	865	1,852	932	345	1,529	3,862	1,743	9	39	105
60350103 Salt Dome Province Tertiary Sandstones Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	8	0.60	0	3,060	14,423	4,493	0	2,040	10,433	3,143	0	58	322	94
Gas Fields	48						0	383	3,320	888	0	8	74	19
Total			0.60	0	3,060	14,423	4,493	0	2,423	13,753	4,031	0	66	397
<b>6036 Santos Basin Province</b>														
<b>603601 Guaratiba-Guaruja (Cretaceous) Composite Total Petroleum System</b>														
60360101 Santos Shelf Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE Brazil)														
Oil Fields	4	1.00	4,117	13,034	25,548	13,723	7,645	25,256	54,452	27,463	429	1,475	3,458	1,647
Gas Fields	24						9,955	33,433	67,106	35,411	407	1,428	3,132	1,559
Total			1.00	4,117	13,034	25,548	13,723	17,600	58,689	121,558	62,874	837	2,903	6,589

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			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
<b>60360102 Salt-Structured Deep-Water Sandstones Assessment Unit (100% of undiscovered oil fields and 100% of undiscovered gas fields allocated to OFFSHORE)</b>														
Oil Fields	8	0.90	0	8,929	20,717	9,486	0	12,045	30,602	13,260	0	702	1,914	795
Gas Fields	48						0	3,681	11,497	4,413	0	157	520	194
Total		0.90	0	8,929	20,717	9,486	0	15,727	42,099	17,673	0	859	2,434	989

**6037 Pelotas Basin Province**

**603701 Cenomanian-Turonian-Tertiary Composite Total Petroleum System**

60370101 Pelotas Platform and Basin Assessment Unit (95% of undiscovered oil fields and 95% of undiscovered gas fields allocated to OFFSHORE Brazil)

Oil Fields	8	0.90	0	2,421	6,824	2,791	0	5,150	15,775	6,143	0	298	976	368
Gas Fields	48						0	13,510	37,227	15,522	0	575	1,720	683
Total		0.90	0	2,421	6,824	2,791	0	18,660	53,002	21,665	0	873	2,696	1,052

**6045 Santa Cruz-Tarija Basin Province**

**604501 Los Monos-Machareti Total Petroleum System**

60450102 Foreland Basins Assessment Unit (.6% of undiscovered oil fields and .6% of undiscovered gas fields allocated to ONSHORE Brazil)

Oil Fields	3	1.00	1	7	17	8	3	17	46	20	0	1	3	1
Gas Fields	18						4	22	56	25	0	1	2	1
Total		1.00	1	7	17	8	7	38	103	44	0	2	5	2