UNITED STATES CEMENTS ITS POSITION AS WORLD LEADER IN OIL RESERVES

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In its latest annual report of world recoverable oil resources, Rystad Energy, the independent energy research firm, finds that the United States currently holds 293 billion barrels of recoverable oil resources. This is 20 billion barrels more than Saudi Arabia and almost 100 billion barrels more than Russia. Rystad Energy's estimate of US recoverable oil is also five times more than officially reported proven reserves as published in the BP Statistical Review of World Energy 2019.

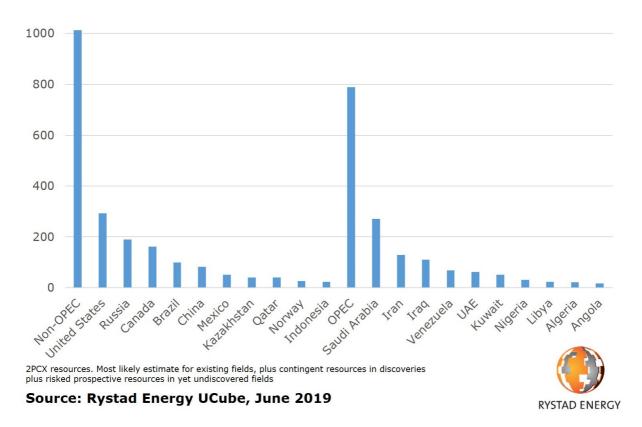
Tight oil plays in the Permian Basin in Texas and New Mexico now hold 100 billion barrels of recoverable oil resources, according to Rystad Energy's analysis. Shale/tight resources in the Permian thus remain largely flat from the previous year, as production has been replaced through improvements in well configuration, largely driven by supermajors increasing their footprint in the Permian Midland Basin and by fine-tuning operations.

"We also note that production has not been fully replaced by increased reserves in some US shale plays, including Eagle Ford in Texas and Utica in Ohio," says Jarand Rystad, CEO at Rystad Energy. "Oil companies have been focusing on core development and cash flows rather than exploration and derisking non-core assets," he adds.

Other notable reductions in resources, according to Rystad Energy's reporting, are for non-US shale discoveries. Offshore deepwater exploration, meanwhile, has resulted in a positive replacement ratio, mainly driven by new discoveries in Guyana by ExxonMobil.

Recoverable oil by country*

Billion barrels



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The annual review of oil reserves by Rystad Energy provides a consistent grouping of recoverable oil into proven reserves and probable reserves, as well as contingent and prospective recoverable resources. Proven reserves is a conservative statistical estimate of oil to be produced from fields and wells already sanctioned for development by oil companies and approved by governments. Contingent resources represent recoverable oil in fields that have been discovered but have not yet been sanctioned for development, while prospective resources are risked estimates from fields not yet discovered.

Rystad Energy consistently applies the standard of the Society of Petroleum Engineers (SPE) when estimating reserves and resources in fields, so reserves can be compared consistently across the world, both for Opec and non-Opec countries, and for conventional and unconventional fields. Official reporting from national authorities apply more diverse and less transparent standards.

Some Opec countries like Venezuela report official reserves apparently including yet undiscovered oil, while others like Brazil and Norway officially report conservative estimates covering only existing fields.

Rystad Energy estimates that the world's *proven oil reserves* according to the SPE scheme total only 386 billion barrels, about one-quarter of the officially reported figures in BP Statistical Review. In order to reach a reserves estimate as high as the 1,730 billion barrels noted in BP's calculation, Rystad Energy's database would need to include 500 billion barrels from its estimates of yet undiscovered oil.

"Official reserves reporting from Saudi Arabia indicates an upwards revision of 10%, but we don't see increases in activity that would justify such a large upgrade, so this revision could be due to changes in reporting methodology. The 20% revision to official US reserves, on the other hand, is due to higher reserves reported by the operators and is based on more stringent rules from the US Security Exchange Commission," says Per Magnus Nysveen, Head of Analysis at Rystad Energy.

Rystad Energy's report also confirms that global production of petroleum liquids and biofuels are on track to pass 100 million barrels per day (bpd) this year, representing an increase of about 2 million bpd from 2018. Also notable in the report is the observation that global production of natural gas liquids (NGL) has passed 10 million bpd, while an additional 5 million barrels comes from refinery gains and biofuels.

"About 5 million barrels per day of global oil production capacity is currently idled for several reasons – less infill drilling offshore, sanctions on Iran, continued instability in Libya, economic collapse in Venezuela, pillage and sabotage in Nigeria and voluntary cuts by Opec and its allies," says Paola Rodriguez-Masieu, Oil Market Analyst at Rystad Energy.

The gradual come-back of this suppressed oil production and resilient growth from US tight oil, combined with reduced oil demand due to trade conflicts, is forecasted to put a firm lid on oil prices for a couple of years, according to oil market analysts at Rystad Energy.

	1P	2P	2PC	2PCX	Added		2PCX life		BPSR vs. 1P	BPSR vs. 2PC
United States	32	43	131	293	-16	12,7	63	61	189 %	47 9
Russia	50	80	115	190	0	11,2	46	106	213 %	92 9
Canada	24	39	104	162	-3	4,5	99	168	693 %	162 9
Brazil	9	15	37	99	3	2,8	96	13	143 %	36 9
China	11	23	33	83	2	3,8	61	26	235 %	79 9
Mexico	4	5	15	52	-14	1,6	87	8	193 %	53 9
Kazakhstan	10	15	27	41	1	1,8	63	30	308 %	109 9
Qatar	7	11	31	40	-0	1,4	78	25	366 %	82 9
Australia	1	1	4	28	-0	0,3	225	4	521 %	107 9
Norway	4	8	13	27	2	1,4	52	9	192 %	67 9
Indonesia	2	3	5	24	-1	0,7	91	3	154 %	61 9
Argentina	2	2	5	16	-16	0,5	90	2	123 %	43 9
United Kingdom	2	3	9	15	0	1,1	39	3	141 %	27 9
Azerbaijan	3	5	7	15	3	0,8	52	7	230 %	103 9
Oman	4	7	9	14	1	1,0	38	5	147 %	63
India	2	3	4	13	0	0,7	53	5	263 %	102 9
Other non-Opec	12	20	44	257		4,7	151	13	107 %	29 9
Non-Opec	179	284	592	1 370	14	51,0	74	488	273 %	82 9
Saudi Arabia	95	172	242	274	-6	10,7	70	298	312 %	123
Iran	26	46	87	130	-3	3,1	113	156	593 %	179
Iraq	18	43	90	111	-1	4,8	64	147	823 %	163
Venezuela	6	12	29	68	-2	0,9	212	303	4818 %	1042
UAE	23	39	53	63	4	3,4	51	98	424 %	186
Kuwait	20	35	47	55	9	2,8	53	102	519 %	218 9
Nigeria	5	8	19	32	-1	2,0	43	38	750 %	202
Libya	5	9	15	27	2	1,2	63	48	961 %	327
Algeria	3	5	7	22	-0	1,3	47	12	438 %	176
Angola	3	4	10	18	-1	1,4	34	8	305 %	87
Congo	1	1	3	7	1	0,4	48	2	196 %	49
Ecuador	1	2	4	5	-0	0,5	28	3	221 %	66 9
Gabon	1	1	1	5	0	0,2	77	2	345 %	148 9
Equatorial Guinea	0	1	1	1	-0	0,2	24	1	269 %	113
OPEC	207	379	607	815	-39	32,9	68	1242	600 %	204
World Total Oil	386	663	1 200	2 185	-25	83,9	71	1730	449 %	144 9

 Natural Gas Liquids
 35
 54
 135
 238
 -39
 10,7

 Other liquids
 5,7

 World Total Liquids production 2019
 100,3

Source: Rystad Energy UCube

*	Global oil production excludes natural gas liquids, biofuel and refinery gains						
**	Reserve estimate from national authorities, as reported in BP Statistical Review 2018						
1P	Proved oil reserves, conservative estimate in existing fields						
2P	Proved+Probable oil reserves, most likely estimate in existing fields						
2PC	Proved+Probable oil reserves plus mean contingent recoverable oil resources						
	in yet undecided projects/discoveries, including noncommercial volumes						
2PCX	Most likely estimate for existing fields, plus contingent resources in discoveries,						
	plus risked prospective resources in yet undiscovered fields						
	Grey boxes indicates which PRMS category (see below) appear closest to official estimates						
	Red boxes indicates official estimates are higher than any PRMS category						
	$\label{the continuous} The above classification scheme is aligned with the The Petroleum Resource Management System$						
	(PRMS) from the Society of Petroleum Engineers (SPE)						
	"Oil" is crude oil + lease condensate. Note BP Statistical Review includes Natural Gas Plant Liquids						

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About Rystad Energy

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