Fossil Fuel

Oil:

In the United States, wood served as the preeminent form of energy for about half of the nation’s history. Around the 1880s, coal became the primary source of energy. Despite its tremendous and rapid expansion, coal was overtaken by petroleum in the middle of the 1900s. Natural gas, too, experienced rapid development into the second half of the 20th century, and coal began to expand again. Late in the 1900s, nuclear electric power was developed and made significant contributions. Although the world’s energy history is one of large-scale change as new forms of energy have been developed, the outlook for the next couple of decades is for continued growth and reliance on the three major fossil fuels of petroleum, natural gas, and coal. Only modest expansion will take place in renewable resources and relatively flat generation from nuclear electric power, unless major breakthroughs occur in energy technologies.



Crude Oil Classification and World Reserves

Obtaining accurate estimates of world petroleum and natural gas resources and reserves is difficult and uncertain, despite excellent scientific analysis made over the years. Terminology standards used by industry to classify resources and reserves has progressed over the last 10 years with the Society of Petroleum Evaluation Engineers leading an effort to establish a set of standard definitions that would be used by all countries in reporting reserves



* [**List of countries by oil production**](https://en.wikipedia.org/wiki/List_of_countries_by_oil_production)

| **Country** | **Proven reserves(bbl)** | **Date** | **Production(bbl/day)** | **Date** | **Consumption(bbl/day)** | **Date** | **Exports(bbl/day)** | **Date** | **Imports(bbl/day)** | **Date** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| https://upload.wikimedia.org/wikipedia/en/thumb/f/f3/Flag_of_Russia.svg/23px-Flag_of_Russia.svg.png [Russia](https://en.wikipedia.org/wiki/Russia) | **80,000,000,000** | 1 January 2013 est. | **10,053,800** | 2013 est. | **3,196,000** | 2012 est. | **4,720,000** | 2013 est. | **16,380** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/0d/Flag_of_Saudi_Arabia.svg/23px-Flag_of_Saudi_Arabia.svg.png [Saudi Arabia](https://en.wikipedia.org/wiki/Saudi_Arabia) | **267,900,000,000** | 1 January 2013 est. | **9,684,700** | 2013 est. | **2,817,000** | 2011 est. | **6,880,000** | 2011 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) | **20,680,000,000** | 1 January 2013 est. | **7,443,400** | 2013 est. | **18,840,000** | 2011 est. | **41,640** | 2010 est. | **9,213,000** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fa/Flag_of_the_People%27s_Republic_of_China.svg/23px-Flag_of_the_People%27s_Republic_of_China.svg.png [China](https://en.wikipedia.org/wiki/China) | **17,300,000,000** | 1 January 2013 est. | **4,164,100** | 2013 est. | **9,790,000** | 2011 est. | **33,000** | 2013 est. | **5,664,000** | 2013 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/c/cf/Flag_of_Canada.svg/23px-Flag_of_Canada.svg.png [Canada](https://en.wikipedia.org/wiki/Canada) | **173,100,000,000** | 1 January 2013 est. | **3,324,300** | 2013 est. | **2,259,000** | NA | **1,576,000** | 2011 est. | **770,300** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/ca/Flag_of_Iran.svg/23px-Flag_of_Iran.svg.png [Iran](https://en.wikipedia.org/wiki/Iran) | **154,600,000,000** | 1 January 2013 est. | **3,113,300** | 2013 est. | **1,709,000** | 2012 est. | **2,445,000** | 2011 est. | **15,600** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/f6/Flag_of_Iraq.svg/23px-Flag_of_Iraq.svg.png [Iraq](https://en.wikipedia.org/wiki/Iraq) | **141,400,000,000** | 1 January 2013 est. | **3,054,400** | 2013 est. | **818,000** | 2011 est. | **2,390,000** | 2013 est. | **0** | 2013 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/06/Flag_of_Venezuela.svg/23px-Flag_of_Venezuela.svg.png [Venezuela](https://en.wikipedia.org/wiki/Venezuela) | **298,350,000,000** | 1 January 2013 est. | **3,023,000** | 2013 est. | **571,000** | 2011 est. | **6,880,000** | 2011 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/cb/Flag_of_the_United_Arab_Emirates.svg/23px-Flag_of_the_United_Arab_Emirates.svg.png [United Arab Emirates](https://en.wikipedia.org/wiki/United_Arab_Emirates) | **97,800,000,000** | 1 January 2013 est. | **2,820,000** | 2013 est. | **572,100** | 2011 est. | **2,142,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/a/aa/Flag_of_Kuwait.svg/23px-Flag_of_Kuwait.svg.png [Kuwait](https://en.wikipedia.org/wiki/Kuwait) | **104,000,000,000** | 1 January 2013 est. | **2,650,000** | 2013 est. | **339,000** | 2011 est. | **1,395,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fc/Flag_of_Mexico.svg/23px-Flag_of_Mexico.svg.png [Mexico](https://en.wikipedia.org/wiki/Mexico) | **10,260,000,000** | 1 January 2013 est. | **2,561,900** | 2013 est. | **2,133,000** | 2011 est. | **1,460,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/79/Flag_of_Nigeria.svg/23px-Flag_of_Nigeria.svg.png [Nigeria](https://en.wikipedia.org/wiki/Nigeria) | **37,200,000,000** | 1 January 2013 est. | **2,367,400** | 2013 est. | **271,600** | 2011 est. | **2,341,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/0/05/Flag_of_Brazil.svg/22px-Flag_of_Brazil.svg.png [Brazil](https://en.wikipedia.org/wiki/Brazil) | **13,150,000,000** | 1 January 2013 est. | **2,023,900** | 2013 est. | **2,594,000** | 2011 est. | **619,100** | 2010 est. | **343,600** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9d/Flag_of_Angola.svg/23px-Flag_of_Angola.svg.png [Angola](https://en.wikipedia.org/wiki/Angola) | **10,470,000,000** | 1 January 2013 est. | **1,830,700** | 2013 est. | **79,430** | 2011 est. | **1,928,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d3/Flag_of_Kazakhstan.svg/23px-Flag_of_Kazakhstan.svg.png [Kazakhstan](https://en.wikipedia.org/wiki/Kazakhstan) | **30,000,000,000** | 1 January 2013 est. | **1,572,900** | 2013 est. | **244,200** | 2011 est. | **1,406,000** | 2010 est. | **119,600** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Flag_of_Qatar.svg/23px-Flag_of_Qatar.svg.png [Qatar](https://en.wikipedia.org/wiki/Qatar) | **25,380,000,000** | 1 January 2013 est. | **1,553,000** | 2013 est. | **189,700** | 2012 est. | **1,389,000** | 2012 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Norway.svg/21px-Flag_of_Norway.svg.png [Norway](https://en.wikipedia.org/wiki/Norway) | **5,366,000,000** | 1 January 2010 est. | **1,529,900** | 2013 est. | **255,200** | 2011 est. | **1,602,000** | 2010 est. | **11,320** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Algeria.svg/23px-Flag_of_Algeria.svg.png [Algeria](https://en.wikipedia.org/wiki/Algeria) | **12,200,000,000** | 1 January 2013 est. | **1,461,800** | 2013 est. | **316,400** | 2011 est. | **1,097,000** | 2010 est. | **6,400** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/21/Flag_of_Colombia.svg/23px-Flag_of_Colombia.svg.png [Colombia](https://en.wikipedia.org/wiki/Colombia) | **2,200,000,000** | 1 January 2013 est. | **1,003,200** | 2013 est. | **287,000** | 2011 est. | **777,900** | -2009 | **10** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Oman.svg/23px-Flag_of_Oman.svg.png [Oman](https://en.wikipedia.org/wiki/Oman) | **5,500,000,000** | 1 January 2013 est. | **939,900** | 2013 est. | **98,000** | 2011 est. | **705,100** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/05/Flag_of_Libya.svg/23px-Flag_of_Libya.svg.png [Libya](https://en.wikipedia.org/wiki/Libya) | **48,010,000,000** | 1 January 2013 est. | **918,300** | 2013 est. | **314,000** | 2011 est. | **1,378,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Azerbaijan.svg/23px-Flag_of_Azerbaijan.svg.png [Azerbaijan](https://en.wikipedia.org/wiki/Azerbaijan) | **7,000,000,000** | 1 January 2013 est. | **870,600** | 2013 est. | **168,000** | 2011 est. | **821,000** | 2011 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9f/Flag_of_Indonesia.svg/23px-Flag_of_Indonesia.svg.png [Indonesia](https://en.wikipedia.org/wiki/Indonesia) | **4,030,000,000** | 1 January 2013 est. | **825,200** | 2013 est. | **1,322,000** | 2011 est. | **338,100** | 2010 est. | **388,400** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom) | **3,122,000,000** | 1 January 2013 est. | **801,300** | 2013 est. | **1,217,000** | 2013 est. | **637,800** | 2013 est. | **1,053,000** | 2013 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/4/41/Flag_of_India.svg/23px-Flag_of_India.svg.png [India](https://en.wikipedia.org/wiki/India) | **5,476,000,000** | 1 January 2013 est. | **772,100** | 2013 est. | **3,292,000** | 2011 est. | **0** | 2010 est. | **3,272,000** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/Flag_of_Argentina.svg/23px-Flag_of_Argentina.svg.png [Argentina](https://en.wikipedia.org/wiki/Argentina) | **2,805,000,000** | 1 January 2013 est. | **539,800** | 2013 est. | **678,100** | 2011 est. | **90,920** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/e/e8/Flag_of_Ecuador.svg/23px-Flag_of_Ecuador.svg.png [Ecuador](https://en.wikipedia.org/wiki/Ecuador) | **8,240,000,000** | 1 January 2013 est. | **526,100** | 2013 est. | **280,000** | 2012 est. | **413,000** | 2013 est. | **154,000** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/66/Flag_of_Malaysia.svg/23px-Flag_of_Malaysia.svg.png [Malaysia](https://en.wikipedia.org/wiki/Malaysia) | **4,000,000,000** | 1 January 2013 est. | **515,700** | 2013 est. | **542,900** | 2011 est. | **269,000** | 2012 est. | **160,500** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fe/Flag_of_Egypt.svg/23px-Flag_of_Egypt.svg.png [Egypt](https://en.wikipedia.org/wiki/Egypt) | **4,400,000,000** | 1 January 2013 est. | **514,400** | 2013 est. | **816,300** | 2011 est. | **85,000** | 2010 est. | **48,740** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/21/Flag_of_Vietnam.svg/23px-Flag_of_Vietnam.svg.png [Vietnam](https://en.wikipedia.org/wiki/Vietnam) | **4,400,000,000** | 1 January 2013 est. | **335,500** | 2013 est. | **259,900** | 2012 est. | **188,000** | 2012 est. | **0** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/b/b9/Flag_of_Australia.svg/23px-Flag_of_Australia.svg.png [Australia](https://en.wikipedia.org/wiki/Australia) | **1,433,000,000** | 1 January 2013 est. | **332,400** | 2013 est. | **1,023,000** | 2011 est. | **314,100** | 2010 est. | **475,900** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/3/31/Flag_of_Equatorial_Guinea.svg/23px-Flag_of_Equatorial_Guinea.svg.png [Equatorial Guinea](https://en.wikipedia.org/wiki/Equatorial_Guinea) | **1,100,000,000** | 1 January 2013 est. | **269,800** | 2013 est. | **1,588** | 2011 est. | **319,100** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/92/Flag_of_the_Republic_of_the_Congo.svg/23px-Flag_of_the_Republic_of_the_Congo.svg.png [Republic of the Congo](https://en.wikipedia.org/wiki/Republic_of_the_Congo) | **1,600,000,000** | 1 January 2013 est. | **265,500** | 2013 est. | **10,710** | 2011 est. | **290,000** | 2011 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/04/Flag_of_Gabon.svg/20px-Flag_of_Gabon.svg.png [Gabon](https://en.wikipedia.org/wiki/Gabon) | **2,000,000,000** | 1 January 2013 est. | **243,200** | 2013 est. | **15,800** | 2011 est. | **225,300** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/a/a9/Flag_of_Thailand.svg/23px-Flag_of_Thailand.svg.png [Thailand](https://en.wikipedia.org/wiki/Thailand) | **453,300,000** | 1 January 2013 est. | **240,600** | 2013 est. | **721,100** | 2011 est. | **32,200** | 2011 est. | **793,900** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/1b/Flag_of_Turkmenistan.svg/23px-Flag_of_Turkmenistan.svg.png [Turkmenistan](https://en.wikipedia.org/wiki/Turkmenistan) | **600,000,000** | 1 January 2013 est. | **228,500** | 2013 est. | **145,000** | 2011 est. | **67,000** | 2012 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/7a/Flag_of_South_Sudan.svg/23px-Flag_of_South_Sudan.svg.png [South Sudan](https://en.wikipedia.org/wiki/South_Sudan) | **3,750,000,000** | 1 January 2013 est. | **220,000** | Second half of 2013 est. | **NA** | NA | **291,800** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Flag_of_Denmark.svg/20px-Flag_of_Denmark.svg.png [Denmark](https://en.wikipedia.org/wiki/Denmark) | **805,000,000** | 1 January 2013 est. | **175,400** | 2013 est. | **160,200** | 2011 est. | **155,200** | 2010 est. | **55,010** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/8/89/Flag_of_Yemen.svg/23px-Flag_of_Yemen.svg.png [Yemen](https://en.wikipedia.org/wiki/Yemen) | **3,000,000,000** | 1 January 2013 est. | **129,200** | 2013 est. | **177,000** | 2011 est. | **175,200** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9c/Flag_of_Brunei.svg/23px-Flag_of_Brunei.svg.png [Brunei](https://en.wikipedia.org/wiki/Brunei) | **1,100,000,000** | 1 January 2013 est. | **122,000** | 2013 est. | **14,640** | 2011 est. | **147,900** | 2010 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/0/03/Flag_of_Italy.svg/23px-Flag_of_Italy.svg.png [Italy](https://en.wikipedia.org/wiki/Italy) | **521,300,000** | 1 January 2013 est. | **101,800** | 2013 est. | **1,454,000** | 2011 est. | **6,300** | 2010 est. | **1,591,000** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/4/4b/Flag_of_Chad.svg/23px-Flag_of_Chad.svg.png [Chad](https://en.wikipedia.org/wiki/Chad) | **1,500,000,000** | 1 January 2013 est. | **97,900** | 2013 est. | **1,817** | 2011 est. | **125,700** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/19/Flag_of_Ghana.svg/23px-Flag_of_Ghana.svg.png [Ghana](https://en.wikipedia.org/wiki/Ghana) | **660,000,000** | 1 January 2013 est. | **97,900** | 2013 est. | **61,590** | 2011 est. | **0** | 2010 est. | **32,060** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/73/Flag_of_Romania.svg/23px-Flag_of_Romania.svg.png [Romania](https://en.wikipedia.org/wiki/Romania) | **600,000,000** | 1 January 2013 est. | **85,100** | 2013 est. | **218,200** | 2011 est. | **1,604** | 2010 est. | **122,000** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/64/Flag_of_Trinidad_and_Tobago.svg/23px-Flag_of_Trinidad_and_Tobago.svg.png [Trinidad and Tobago](https://en.wikipedia.org/wiki/Trinidad_and_Tobago) | **728,300,000** | 1 January 2013 est. | **81,300** | 2013 est. | **41,000** | 2011 est. | **75,340** | 2010 est. | **70,260** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/26/Flag_of_East_Timor.svg/23px-Flag_of_East_Timor.svg.png [Timor-Leste](https://en.wikipedia.org/wiki/East_Timor) | **0** | 1 January 2013 est. | **79,490** | 2012 est. | **2,755** | 2011 est. | **87,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/8/84/Flag_of_Uzbekistan.svg/23px-Flag_of_Uzbekistan.svg.png [Uzbekistan](https://en.wikipedia.org/wiki/Uzbekistan) | **594,000,000** | 1 January 2013 est. | **70,000** | 2013 est. | **137,100** | 2011 est. | **0** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/cf/Flag_of_Peru.svg/23px-Flag_of_Peru.svg.png [Peru](https://en.wikipedia.org/wiki/Peru) | **579,200,000** | 1 January 2013 est. | **62,900** | 2013 est. | **206,900** | 2012 est. | **15,610** | 2012 est. | **99,590** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/4/4f/Flag_of_Cameroon.svg/23px-Flag_of_Cameroon.svg.png [Cameroon](https://en.wikipedia.org/wiki/Cameroon) | **200,000,000** | 1 January 2013 est. | **62,800** | 2013 est. | **29,410** | 2011 est. | **55,680** | 2010 est. | **34,220** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/ce/Flag_of_Tunisia.svg/23px-Flag_of_Tunisia.svg.png [Tunisia](https://en.wikipedia.org/wiki/Tunisia) | **425,000,000** | 1 January 2013 est. | **62,200** | 2013 est. | **88,380** | 2011 est. | **77,980** | 2010 est. | **3,680** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/3/32/Flag_of_Pakistan.svg/23px-Flag_of_Pakistan.svg.png [Pakistan](https://en.wikipedia.org/wiki/Pakistan) | **247,500,000** | 1 January 2013 est. | **59,900** | 2013 est. | **426,700** | 2011 est. | **0** | 2010 est. | **151,200** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/5/53/Flag_of_Syria.svg/23px-Flag_of_Syria.svg.png [Syria](https://en.wikipedia.org/wiki/Syria) | **2,500,000,000** | 1 January 2013 est. | **58,000** | 2013 est. | **258,800** | 2011 est. | **152,400** | 2010 est. | **0** | 2010 est. |

* [**List of countries by oil proven reserves**](https://en.wikipedia.org/wiki/List_of_countries_by_oil_proven_reserves)

| **Country** | **Proven reserves(bbl)** | **Date** | **Production(bbl/day)** | **Date** | **Consumption(bbl/day)** | **Date** | **Exports(bbl/day)** | **Date** | **Imports(bbl/day)** | **Date** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/06/Flag_of_Venezuela.svg/23px-Flag_of_Venezuela.svg.png [Venezuela](https://en.wikipedia.org/wiki/Venezuela) | **298,350,000,000** | 1 January 2013 est. | **3,023,000** | 2013 est. | **571,000** | 2011 est. | **6,880,000** | 2011 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/0d/Flag_of_Saudi_Arabia.svg/23px-Flag_of_Saudi_Arabia.svg.png [Saudi Arabia](https://en.wikipedia.org/wiki/Saudi_Arabia) | **267,900,000,000** | 1 January 2013 est. | **9,684,700** | 2013 est. | **2,817,000** | 2011 est. | **6,880,000** | 2011 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/c/cf/Flag_of_Canada.svg/23px-Flag_of_Canada.svg.png [Canada](https://en.wikipedia.org/wiki/Canada) | **173,100,000,000** | 1 January 2013 est. | **3,324,300** | 2013 est. | **2,259,000** | NA | **1,576,000** | 2011 est. | **770,300** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/ca/Flag_of_Iran.svg/23px-Flag_of_Iran.svg.png [Iran](https://en.wikipedia.org/wiki/Iran) | **154,600,000,000** | 1 January 2013 est. | **3,113,300** | 2013 est. | **1,709,000** | 2012 est. | **2,445,000** | 2011 est. | **15,600** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/f6/Flag_of_Iraq.svg/23px-Flag_of_Iraq.svg.png [Iraq](https://en.wikipedia.org/wiki/Iraq) | **141,400,000,000** | 1 January 2013 est. | **3,054,400** | 2013 est. | **818,000** | 2011 est. | **2,390,000** | 2013 est. | **0** | 2013 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/a/aa/Flag_of_Kuwait.svg/23px-Flag_of_Kuwait.svg.png [Kuwait](https://en.wikipedia.org/wiki/Kuwait) | **104,000,000,000** | 1 January 2013 est. | **2,650,000** | 2013 est. | **339,000** | 2011 est. | **1,395,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/cb/Flag_of_the_United_Arab_Emirates.svg/23px-Flag_of_the_United_Arab_Emirates.svg.png [United Arab Emirates](https://en.wikipedia.org/wiki/United_Arab_Emirates) | **97,800,000,000** | 1 January 2013 est. | **2,820,000** | 2013 est. | **572,100** | 2011 est. | **2,142,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/f/f3/Flag_of_Russia.svg/23px-Flag_of_Russia.svg.png [Russia](https://en.wikipedia.org/wiki/Russia) | **80,000,000,000** | 1 January 2013 est. | **10,053,800** | 2013 est. | **3,196,000** | 2012 est. | **4,720,000** | 2013 est. | **16,380** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/05/Flag_of_Libya.svg/23px-Flag_of_Libya.svg.png [Libya](https://en.wikipedia.org/wiki/Libya) | **48,010,000,000** | 1 January 2013 est. | **918,300** | 2013 est. | **314,000** | 2011 est. | **1,378,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/79/Flag_of_Nigeria.svg/23px-Flag_of_Nigeria.svg.png [Nigeria](https://en.wikipedia.org/wiki/Nigeria) | **37,200,000,000** | 1 January 2013 est. | **2,367,400** | 2013 est. | **271,600** | 2011 est. | **2,341,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d3/Flag_of_Kazakhstan.svg/23px-Flag_of_Kazakhstan.svg.png [Kazakhstan](https://en.wikipedia.org/wiki/Kazakhstan) | **30,000,000,000** | 1 January 2013 est. | **1,572,900** | 2013 est. | **244,200** | 2011 est. | **1,406,000** | 2010 est. | **119,600** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Flag_of_Qatar.svg/23px-Flag_of_Qatar.svg.png [Qatar](https://en.wikipedia.org/wiki/Qatar) | **25,380,000,000** | 1 January 2013 est. | **1,553,000** | 2013 est. | **189,700** | 2012 est. | **1,389,000** | 2012 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) | **20,680,000,000** | 1 January 2013 est. | **7,443,400** | 2013 est. | **18,840,000** | 2011 est. | **41,640** | 2010 est. | **9,213,000** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fa/Flag_of_the_People%27s_Republic_of_China.svg/23px-Flag_of_the_People%27s_Republic_of_China.svg.png [China](https://en.wikipedia.org/wiki/China) | **17,300,000,000** | 1 January 2013 est. | **4,164,100** | 2013 est. | **9,790,000** | 2011 est. | **33,000** | 2013 est. | **5,664,000** | 2013 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/0/05/Flag_of_Brazil.svg/22px-Flag_of_Brazil.svg.png [Brazil](https://en.wikipedia.org/wiki/Brazil) | **13,150,000,000** | 1 January 2013 est. | **2,023,900** | 2013 est. | **2,594,000** | 2011 est. | **619,100** | 2010 est. | **343,600** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Algeria.svg/23px-Flag_of_Algeria.svg.png [Algeria](https://en.wikipedia.org/wiki/Algeria) | **12,200,000,000** | 1 January 2013 est. | **1,461,800** | 2013 est. | **316,400** | 2011 est. | **1,097,000** | 2010 est. | **6,400** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9d/Flag_of_Angola.svg/23px-Flag_of_Angola.svg.png [Angola](https://en.wikipedia.org/wiki/Angola) | **10,470,000,000** | 1 January 2013 est. | **1,830,700** | 2013 est. | **79,430** | 2011 est. | **1,928,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fc/Flag_of_Mexico.svg/23px-Flag_of_Mexico.svg.png [Mexico](https://en.wikipedia.org/wiki/Mexico) | **10,260,000,000** | 1 January 2013 est. | **2,561,900** | 2013 est. | **2,133,000** | 2011 est. | **1,460,000** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/e/e8/Flag_of_Ecuador.svg/23px-Flag_of_Ecuador.svg.png [Ecuador](https://en.wikipedia.org/wiki/Ecuador) | **8,240,000,000** | 1 January 2013 est. | **526,100** | 2013 est. | **280,000** | 2012 est. | **413,000** | 2013 est. | **154,000** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Azerbaijan.svg/23px-Flag_of_Azerbaijan.svg.png [Azerbaijan](https://en.wikipedia.org/wiki/Azerbaijan) | **7,000,000,000** | 1 January 2013 est. | **870,600** | 2013 est. | **168,000** | 2011 est. | **821,000** | 2011 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Oman.svg/23px-Flag_of_Oman.svg.png [Oman](https://en.wikipedia.org/wiki/Oman) | **5,500,000,000** | 1 January 2013 est. | **939,900** | 2013 est. | **98,000** | 2011 est. | **705,100** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/4/41/Flag_of_India.svg/23px-Flag_of_India.svg.png [India](https://en.wikipedia.org/wiki/India) | **5,476,000,000** | 1 January 2013 est. | **772,100** | 2013 est. | **3,292,000** | 2011 est. | **0** | 2010 est. | **3,272,000** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Norway.svg/21px-Flag_of_Norway.svg.png [Norway](https://en.wikipedia.org/wiki/Norway) | **5,366,000,000** | 1 January 2010 est. | **1,529,900** | 2013 est. | **255,200** | 2011 est. | **1,602,000** | 2010 est. | **11,320** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fe/Flag_of_Egypt.svg/23px-Flag_of_Egypt.svg.png [Egypt](https://en.wikipedia.org/wiki/Egypt) | **4,400,000,000** | 1 January 2013 est. | **514,400** | 2013 est. | **816,300** | 2011 est. | **85,000** | 2010 est. | **48,740** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/21/Flag_of_Vietnam.svg/23px-Flag_of_Vietnam.svg.png [Vietnam](https://en.wikipedia.org/wiki/Vietnam) | **4,400,000,000** | 1 January 2013 est. | **335,500** | 2013 est. | **259,900** | 2012 est. | **188,000** | 2012 est. | **0** | 2012 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9f/Flag_of_Indonesia.svg/23px-Flag_of_Indonesia.svg.png [Indonesia](https://en.wikipedia.org/wiki/Indonesia) | **4,030,000,000** | 1 January 2013 est. | **825,200** | 2013 est. | **1,322,000** | 2011 est. | **338,100** | 2010 est. | **388,400** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/66/Flag_of_Malaysia.svg/23px-Flag_of_Malaysia.svg.png [Malaysia](https://en.wikipedia.org/wiki/Malaysia) | **4,000,000,000** | 1 January 2013 est. | **515,700** | 2013 est. | **542,900** | 2011 est. | **269,000** | 2012 est. | **160,500** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/7a/Flag_of_South_Sudan.svg/23px-Flag_of_South_Sudan.svg.png [South Sudan](https://en.wikipedia.org/wiki/South_Sudan) | **3,750,000,000** | 1 January 2013 est. | **220,000** | Second half of 2013 est. | **NA** | NA | **291,800** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom) | **3,122,000,000** | 1 January 2013 est. | **801,300** | 2013 est. | **1,217,000** | 2013 est. | **637,800** | 2013 est. | **1,053,000** | 2013 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/8/89/Flag_of_Yemen.svg/23px-Flag_of_Yemen.svg.png [Yemen](https://en.wikipedia.org/wiki/Yemen) | **3,000,000,000** | 1 January 2013 est. | **129,200** | 2013 est. | **177,000** | 2011 est. | **175,200** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/Flag_of_Argentina.svg/23px-Flag_of_Argentina.svg.png [Argentina](https://en.wikipedia.org/wiki/Argentina) | **2,805,000,000** | 1 January 2013 est. | **539,800** | 2013 est. | **678,100** | 2011 est. | **90,920** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/5/53/Flag_of_Syria.svg/23px-Flag_of_Syria.svg.png [Syria](https://en.wikipedia.org/wiki/Syria) | **2,500,000,000** | 1 January 2013 est. | **58,000** | 2013 est. | **258,800** | 2011 est. | **152,400** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/4/4e/Flag_of_Uganda.svg/23px-Flag_of_Uganda.svg.png [Uganda](https://en.wikipedia.org/wiki/Uganda) | **2,500,000,000** | 1 January 2010 est. | **0** | 2013 est. | **16,930** | 2011 est. | **0** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/21/Flag_of_Colombia.svg/23px-Flag_of_Colombia.svg.png [Colombia](https://en.wikipedia.org/wiki/Colombia) | **2,200,000,000** | 1 January 2013 est. | **1,003,200** | 2013 est. | **287,000** | 2011 est. | **777,900** | -2009 | **10** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/04/Flag_of_Gabon.svg/20px-Flag_of_Gabon.svg.png [Gabon](https://en.wikipedia.org/wiki/Gabon) | **2,000,000,000** | 1 January 2013 est. | **243,200** | 2013 est. | **15,800** | 2011 est. | **225,300** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/92/Flag_of_the_Republic_of_the_Congo.svg/23px-Flag_of_the_Republic_of_the_Congo.svg.png [Republic of the Congo](https://en.wikipedia.org/wiki/Republic_of_the_Congo) | **1,600,000,000** | 1 January 2013 est. | **265,500** | 2013 est. | **10,710** | 2011 est. | **290,000** | 2011 est. | **0** | 2011 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/4/4b/Flag_of_Chad.svg/23px-Flag_of_Chad.svg.png [Chad](https://en.wikipedia.org/wiki/Chad) | **1,500,000,000** | 1 January 2013 est. | **97,900** | 2013 est. | **1,817** | 2011 est. | **125,700** | 2010 est. | **0** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/b/b9/Flag_of_Australia.svg/23px-Flag_of_Australia.svg.png [Australia](https://en.wikipedia.org/wiki/Australia) | **1,433,000,000** | 1 January 2013 est. | **332,400** | 2013 est. | **1,023,000** | 2011 est. | **314,100** | 2010 est. | **475,900** | 2010 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/01/Flag_of_Sudan.svg/23px-Flag_of_Sudan.svg.png [Sudan](https://en.wikipedia.org/wiki/Sudan) | **1,250,000,000** | 1 January 2013 est. | **28,830** | 2012 est. | **95,450** | 2011 est. | **97,270** | 2010 est. | **0** | 2010 est. |

Standard Fuels:

Petroleum is refined into petroleum products that are used to meet individual product demands. The general classifications of products are:

1. Natural gas liquids and liquefied refinery gases. This category includes ethane (C2H6); ethylene(C2H4); propane (C3H8); propylene (C3H6); butane and isobutane (C4H10); and butylene and isobutylene (C4H8).

2. Finished petroleum products. This category includes motor gasoline; aviation gasoline; jet fuel; kerosene; distillate; fuel oil; residual fuel oil; petrochemical feed stock; naphthas; lubricants; waxes; petroleum coke; asphalt and road oil; and still gas.

† Motor gasoline includes reformulated gasoline for vehicles and oxygenated gasoline such as gasohol (a mixture of gasoline and alcohol).

† Jet fuel is classified by use such as industrial or military and naphtha and kerosene type. Naphtha fuels are used in turbo jet and turbo prop aircraft engines and exclude ram-jet and petroleum rocket fuel.

† Kerosene is used for space heaters, cook stoves, wick lamps, and water heaters.

† Distillate fuel oil is broken into subcategories: No. 1 distillate, No. 2 distillate, and No. 4 fuel oil, which is used for commercial burners.

† Petrochemical feedstock is used in the manufacture of chemicals, synthetic rubber, and plastics.

† Naphthas are petroleums with an approximate boiling range of 1228F–4008F.

† Lubricants are substances used to reduce friction between bearing surfaces, as process materials, and as carriers of other materials. They are produced from distillates or residues. Lubricants are paraffinic or naphthenic and separated by viscosity measurement.

† Waxes are solid or semisolid material derived from petroleum distillates or residues. They are typically a slightly greasy, light colored or translucent, crystallizing mass.

† Asphalt is a cement-like material containing bitumens. Road oil is any heavy petroleum oil used as a dust pallatine and road surface treatment.

Still gas is any refinery by-product gas. It consists of light gases of methane; ethane; ethylene; butane; propane; and the other associated gases. Still gas is typically used as a refinery fuel.



Natural Gas

Natural gas has been called the environmentally friendly fossil fuel because it releases fewer harmful contaminants. World production of dry natural gas was 73.7 trillion ft3 and accounted for over 20% of world energy production. In 1990 Russia accounted for about one third of world natural gas.With about one quarter of the world’s 1990 natural gas production, the second largest producer was the U.S. According to the U.S. Department of Energy, natural gas is forecast to be the fastest growing primary energy. Consumption of natural gas is projected to nearly double between 2001 and 2025, with the most robust growth in demand expected among the developing nations. The natural gas share of total energy consumption is projected to increase from 23% in 2001 to 28% in 2025. Natural gas traded across international borders has increased from 19% of the world’s consumption in 1995 to 23% in 2001. pipeline exports grew by 39% and liquefied natural gas (LNG) trade grew by 55% between 1995 and 2001. LNG has become increasingly competitive, suggesting the possibility for strong worldwide LNG growth over the next two decades. Figure 2.6 shows projections of natural gas consumption in 2025 to be five times the consumption level in 1970.



Reserves and Resources

Since the mid-1970s, world natural gas reserves have generally trended upward each year As of January 1, 2003, proved world natural gas reserves, as reported by Oil & Gas Journal, were estimated at 5501 trillion ft3. Over 70% of the world’s natural gas reserves are located in the Middle East and the EE/FSU, with Russia and Iran together accounting for about 45% of the reserves. Reserves in the rest of the world are fairly evenly distributed on a regional basis.

The U.S. Geological Survey (USGS) regularly assesses the long-term production potential of worldwide petroleum resources (oil, natural gas, and natural gas liquids). According to the most recent USGS estimates, released in the World Petroleum Assessment 2000, the mean estimate for worldwide undiscovered gas is 4839 trillion ft3. Outside the U.S. and Canada, the rest of the world reserves have been largely unexploited. Outside the U.S., the world has produced less than 10% of its total estimated natural gas endowment and carries more than 30% as remaining reserves. Figure 2.7 shows world natural gas reserves by region from 1975 to 2003. Table 2.10 shows natural gas reserves of the top 20 countries compared to world reserves. Russia, Iran, and Qatar account for over half of estimated world gas reserves.





* [**List of countries by natural gas proven reserves**](https://en.wikipedia.org/wiki/List_of_countries_by_natural_gas_proven_reserves)

| **Country** | **Proven reserves(million cu m)** | **Date** | **Production(million cu m)** | **Date** | **Consumption(million cu m)** | **Date** | **Exports(million cu m)** | **Date** | **Imports(million cu m)** | **Date** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  *World* | **175,400,000** | 1 January 2008 est. | **3,177,000** | 2009 est. | **3,198,000** | 2007 est. | **929,900** | 2007 est. | **957,600** | 2007 |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/ca/Flag_of_Iran.svg/23px-Flag_of_Iran.svg.png [Iran](https://en.wikipedia.org/wiki/Iran) | **33,600,000***Rank: 1* | 1 January 2008 est. | **111,900***Rank: 4* | 2007 est. | **111,800***Rank: 1* | 2007 est. | **6,200***Rank: 25* | 2007 est. | **6,100***Rank: 27* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/f/f3/Flag_of_Russia.svg/23px-Flag_of_Russia.svg.png [Russia](https://en.wikipedia.org/wiki/Russia) | **32,900,000***Rank: 2* | 1 January 2008 est. | **588,900***Rank: 2* | 2010 est. | **481,000***Rank: 2* | 2007 est. | **173,000***Rank: 1* | 2007 est. | **68,200***Rank: 5* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Flag_of_Qatar.svg/23px-Flag_of_Qatar.svg.png [Qatar](https://en.wikipedia.org/wiki/Qatar) | **25,630,000***Rank: 3* | 1 January 2008 est. | **59,800***Rank: 14* | 2007 est. | **20,500***Rank: 3* | 2007 est. | **39,300***Rank: 7* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/0d/Flag_of_Saudi_Arabia.svg/23px-Flag_of_Saudi_Arabia.svg.png [Saudi Arabia](https://en.wikipedia.org/wiki/Saudi_Arabia) | **7,167,000***Rank: 4* | 1 January 2008 est. | **75,900***Rank: 8* | 2007 est. | **75,900***Rank: 9* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/cb/Flag_of_the_United_Arab_Emirates.svg/23px-Flag_of_the_United_Arab_Emirates.svg.png [United Arab Emirates](https://en.wikipedia.org/wiki/United_Arab_Emirates) | **6,071,000***Rank: 5* | 1 January 2008 est. | **48,790***Rank: 17* | 2006 est. | **43,110***Rank: 16* | 2006 est. | **6,848***Rank: 24* | 2005 est. | **1,343***Rank: 46* | 2005 |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) | **5,977,000***Rank: 6* | 1 January 2008 est. | **611,000***Rank: 1* | 2010 est. | **646,600***Rank: 1* | 2009 est. | **23,280***Rank: 10* | 2007 est. | **130,300***Rank: 1* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/79/Flag_of_Nigeria.svg/23px-Flag_of_Nigeria.svg.png [Nigeria](https://en.wikipedia.org/wiki/Nigeria) | **5,210,000***Rank: 7* | 1 January 2008 est. | **34,100***Rank: 22* | 2007 est. | **12,900***Rank: 41* | 2007 est. | **21,200***Rank: 11* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/06/Flag_of_Venezuela.svg/23px-Flag_of_Venezuela.svg.png [Venezuela](https://en.wikipedia.org/wiki/Venezuela) | **4,708,000***Rank: 8* | 1 January 2008 est. | **26,500***Rank: 26* | 2007 est. | **26,500***Rank: 28* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Algeria.svg/23px-Flag_of_Algeria.svg.png [Algeria](https://en.wikipedia.org/wiki/Algeria) | **4,502,000***Rank: 9* | 1 January 2008 est. | **85,700***Rank: 6* | 2007 est. | **26,300***Rank: 29* | 2007 est. | **59,400***Rank: 4* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/f6/Flag_of_Iraq.svg/23px-Flag_of_Iraq.svg.png [Iraq](https://en.wikipedia.org/wiki/Iraq) | **3,170,000***Rank: 10* | 1 January 2008 est. | **15,660***Rank: 32* | 2008 est. | **9,454***Rank: 46* | 2008 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d3/Flag_of_Kazakhstan.svg/23px-Flag_of_Kazakhstan.svg.png [Kazakhstan](https://en.wikipedia.org/wiki/Kazakhstan) | **2,832,000***Rank: 11* | 1 January 2008 est. | **27,880***Rank: 25* | 2007 est. | **30,580***Rank: 26* | 2007 est. | **8,100***Rank: 23* | 2007 est. | **10,800***Rank: 17* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/1b/Flag_of_Turkmenistan.svg/23px-Flag_of_Turkmenistan.svg.png [Turkmenistan](https://en.wikipedia.org/wiki/Turkmenistan) | **2,832,000***Rank: 12* | 1 January 2008 est. | **68,880***Rank: 11* | 2007 est. | **19,480***Rank: 35* | 2007 est. | **49,400***Rank: 6* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9f/Flag_of_Indonesia.svg/23px-Flag_of_Indonesia.svg.png [Indonesia](https://en.wikipedia.org/wiki/Indonesia) | **2,659,000***Rank: 13* | 1 January 2008 est. | **56,000***Rank: 15* | 2007 est. | **23,400***Rank: 30* | 2007 est. | **32,600***Rank: 8* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/b/b7/Flag_of_Europe.svg/23px-Flag_of_Europe.svg.png [European Union](https://en.wikipedia.org/wiki/European_Union) | **2,476,000** | 1 January 2008 est. | **197,800** | 2007 est. | **497,300** | 2007 est. | **NA** | NA | **NA** | NA |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/66/Flag_of_Malaysia.svg/23px-Flag_of_Malaysia.svg.png [Malaysia](https://en.wikipedia.org/wiki/Malaysia) | **2,350,000***Rank: 14* | 1 January 2008 est. | **64,500***Rank: 13* | 2007 est. | **32,900***Rank: 23* | 2007 est. | **31,600***Rank: 9* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fa/Flag_of_the_People%27s_Republic_of_China.svg/23px-Flag_of_the_People%27s_Republic_of_China.svg.png [China](https://en.wikipedia.org/wiki/China) | **2,265,000***Rank: 15* | 1 January 2008 est. | **69,270***Rank: 10* | 2007 est. | **70,510***Rank: 10* | 2007 est. | **5,360***Rank: 26* | 2007 est. | **3,871***Rank: 34* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Norway.svg/21px-Flag_of_Norway.svg.png [Norway](https://en.wikipedia.org/wiki/Norway) | **2,241,000***Rank: 16* | 1 January 2008 est. | **99,300***Rank: 5* | 2008 est. | **6,500***Rank: 52* | 2007 est. | **85,700***Rank: 3* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/8/84/Flag_of_Uzbekistan.svg/23px-Flag_of_Uzbekistan.svg.png [Uzbekistan](https://en.wikipedia.org/wiki/Uzbekistan) | **1,841,000***Rank: 17* | 1 January 2008 est. | **65,190***Rank: 12* | 2007 est. | **51,180***Rank: 13* | 2007 est. | **14,010***Rank: 15* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fe/Flag_of_Egypt.svg/23px-Flag_of_Egypt.svg.png [Egypt](https://en.wikipedia.org/wiki/Egypt) | **1,656,000***Rank: 18* | 1 January 2008 est. | **47,500***Rank: 18* | 2007 est. | **31,800***Rank: 24* | 2007 est. | **15,700***Rank: 14* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/c/cf/Flag_of_Canada.svg/23px-Flag_of_Canada.svg.png [Canada](https://en.wikipedia.org/wiki/Canada) | **1,648,000***Rank: 19* | 1 January 2008 est. | **187,000***Rank: 3* | 2007 est. | **92,900***Rank: 6* | 2007 est. | **107,300***Rank: 2* | 2007 est. | **13,200***Rank: 15* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/a/aa/Flag_of_Kuwait.svg/23px-Flag_of_Kuwait.svg.png [Kuwait](https://en.wikipedia.org/wiki/Kuwait) | **1,586,000***Rank: 20* | 1 January 2008 est. | **12,500***Rank: 37* | 2006 est. | **12,500***Rank: 42* | 2006 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/05/Flag_of_Libya.svg/23px-Flag_of_Libya.svg.png [Libya](https://en.wikipedia.org/wiki/Libya) | **1,419,000***Rank: 21* | 1 January 2008 est. | **14,800***Rank: 33* | 2006 est. | **6,390***Rank: 53* | 2006 est. | **9,900***Rank: 21* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Flag_of_the_Netherlands.svg/23px-Flag_of_the_Netherlands.svg.png [Netherlands](https://en.wikipedia.org/wiki/Netherlands) | **1,416,000***Rank: 22* | 1 January 2008 est. | **76,330***Rank: 7* | 2007 est. | **46,420***Rank: 14* | 2007 est. | **55,660***Rank: 5* | 2007 est. | **25,730***Rank: 12* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/4/49/Flag_of_Ukraine.svg/23px-Flag_of_Ukraine.svg.png [Ukraine](https://en.wikipedia.org/wiki/Ukraine) | **1,104,000***Rank: 23* | 1 January 2008 est. | **21,050***Rank: 29* | 2008 est. | **66,320***Rank: 12* | 2008 est. | **4,000***Rank: 28* | 2006 est. | **65,400***Rank: 6* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/4/41/Flag_of_India.svg/23px-Flag_of_India.svg.png [India](https://en.wikipedia.org/wiki/India) | **1,075,000***Rank: 24* | 1 January 2008 est. | **31,700***Rank: 23* | 2007 est. | **41,700***Rank: 18* | 2007 est. | **0** | 2007 est. | **10,000***Rank: 21* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/b/b9/Flag_of_Australia.svg/23px-Flag_of_Australia.svg.png [Australia](https://en.wikipedia.org/wiki/Australia) | **849,500***Rank: 26* | 1 January 2008 est. | **43,620***Rank: 20* | 2007 est. | **29,400***Rank: 27* | 2007 est. | **19,910***Rank: 12* | 2007 est. | **5,689***Rank: 28* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Azerbaijan.svg/23px-Flag_of_Azerbaijan.svg.png [Azerbaijan](https://en.wikipedia.org/wiki/Azerbaijan) | **849,500***Rank: 25* | 1 January 2008 est. | **9,770***Rank: 41* | 2007 est. | **9,770***Rank: 45* | 2007 est. | **0** | 2007 est. | **0** | 2005 |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Oman.svg/23px-Flag_of_Oman.svg.png [Oman](https://en.wikipedia.org/wiki/Oman) | **849,500***Rank: 27* | 1 January 2008 est. | **24,100***Rank: 28* | 2007 est. | **11,000***Rank: 44* | 2007 est. | **13,100***Rank: 16* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/3/32/Flag_of_Pakistan.svg/23px-Flag_of_Pakistan.svg.png [Pakistan](https://en.wikipedia.org/wiki/Pakistan) | **792,800***Rank: 28* | 1 January 2008 est. | **30,800***Rank: 24* | 2007 est. | **30,800***Rank: 25* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |

* [**List of countries by natural gas production**](https://en.wikipedia.org/wiki/List_of_countries_by_natural_gas_production)

| **Country** | **Proven reserves(million cu m)** | **Date** | **Production(million cu m)** | **Date** | **Consumption(million cu m)** | **Date** | **Exports(million cu m)** | **Date** | **Imports(million cu m)** | **Date** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  *World* | **175,400,000** | 1 January 2008 est. | **3,177,000** | 2009 est. | **3,198,000** | 2007 est. | **929,900** | 2007 est. | **957,600** | 2007 |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/a4/Flag_of_the_United_States.svg/23px-Flag_of_the_United_States.svg.png [United States](https://en.wikipedia.org/wiki/United_States) | **5,977,000***Rank: 6* | 1 January 2008 est. | **611,000***Rank: 1* | 2010 est. | **646,600***Rank: 1* | 2009 est. | **23,280***Rank: 10* | 2007 est. | **130,300***Rank: 1* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/f/f3/Flag_of_Russia.svg/23px-Flag_of_Russia.svg.png [Russia](https://en.wikipedia.org/wiki/Russia) | **32,900,000***Rank: 2* | 1 January 2008 est. | **588,900***Rank: 2* | 2010 est. | **481,000***Rank: 2* | 2007 est. | **173,000***Rank: 1* | 2007 est. | **68,200***Rank: 5* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/b/b7/Flag_of_Europe.svg/23px-Flag_of_Europe.svg.png [European Union](https://en.wikipedia.org/wiki/European_Union) | **2,476,000** | 1 January 2008 est. | **197,800** | 2007 est. | **497,300** | 2007 est. | **NA** | NA | **NA** | NA |
| https://upload.wikimedia.org/wikipedia/en/thumb/c/cf/Flag_of_Canada.svg/23px-Flag_of_Canada.svg.png [Canada](https://en.wikipedia.org/wiki/Canada) | **1,648,000***Rank: 19* | 1 January 2008 est. | **187,000***Rank: 3* | 2007 est. | **92,900***Rank: 6* | 2007 est. | **107,300***Rank: 2* | 2007 est. | **13,200***Rank: 15* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/ca/Flag_of_Iran.svg/23px-Flag_of_Iran.svg.png [Iran](https://en.wikipedia.org/wiki/Iran) | **33,600,000***Rank: 1* | 1 January 2008 est. | **111,900***Rank: 4* | 2007 est. | **111,800***Rank: 1* | 2007 est. | **6,200***Rank: 25* | 2007 est. | **6,100***Rank: 27* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d9/Flag_of_Norway.svg/21px-Flag_of_Norway.svg.png [Norway](https://en.wikipedia.org/wiki/Norway) | **2,241,000***Rank: 16* | 1 January 2008 est. | **99,300***Rank: 5* | 2008 est. | **6,500***Rank: 52* | 2007 est. | **85,700***Rank: 3* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/77/Flag_of_Algeria.svg/23px-Flag_of_Algeria.svg.png [Algeria](https://en.wikipedia.org/wiki/Algeria) | **4,502,000***Rank: 9* | 1 January 2008 est. | **85,700***Rank: 6* | 2007 est. | **26,300***Rank: 29* | 2007 est. | **59,400***Rank: 4* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/2/20/Flag_of_the_Netherlands.svg/23px-Flag_of_the_Netherlands.svg.png [Netherlands](https://en.wikipedia.org/wiki/Netherlands) | **1,416,000***Rank: 22* | 1 January 2008 est. | **76,330***Rank: 7* | 2007 est. | **46,420***Rank: 14* | 2007 est. | **55,660***Rank: 5* | 2007 est. | **25,730***Rank: 12* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/0d/Flag_of_Saudi_Arabia.svg/23px-Flag_of_Saudi_Arabia.svg.png [Saudi Arabia](https://en.wikipedia.org/wiki/Saudi_Arabia) | **7,167,000***Rank: 4* | 1 January 2008 est. | **75,900***Rank: 8* | 2007 est. | **75,900***Rank: 9* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/a/ae/Flag_of_the_United_Kingdom.svg/23px-Flag_of_the_United_Kingdom.svg.png [United Kingdom](https://en.wikipedia.org/wiki/United_Kingdom) | **412,000***Rank: 33* | 1 January 2008 est. | **72,300***Rank: 9* | 2007 est. | **91,100***Rank: 7* | 2007 est. | **10,400***Rank: 19* | 2007 est. | **29,200***Rank: 11* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fa/Flag_of_the_People%27s_Republic_of_China.svg/23px-Flag_of_the_People%27s_Republic_of_China.svg.png [China](https://en.wikipedia.org/wiki/China) | **2,265,000***Rank: 15* | 1 January 2008 est. | **69,270***Rank: 10* | 2007 est. | **70,510***Rank: 10* | 2007 est. | **5,360***Rank: 26* | 2007 est. | **3,871***Rank: 34* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/1b/Flag_of_Turkmenistan.svg/23px-Flag_of_Turkmenistan.svg.png [Turkmenistan](https://en.wikipedia.org/wiki/Turkmenistan) | **2,832,000***Rank: 12* | 1 January 2008 est. | **68,880***Rank: 11* | 2007 est. | **19,480***Rank: 35* | 2007 est. | **49,400***Rank: 6* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/8/84/Flag_of_Uzbekistan.svg/23px-Flag_of_Uzbekistan.svg.png [Uzbekistan](https://en.wikipedia.org/wiki/Uzbekistan) | **1,841,000***Rank: 17* | 1 January 2008 est. | **65,190***Rank: 12* | 2007 est. | **51,180***Rank: 13* | 2007 est. | **14,010***Rank: 15* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/66/Flag_of_Malaysia.svg/23px-Flag_of_Malaysia.svg.png [Malaysia](https://en.wikipedia.org/wiki/Malaysia) | **2,350,000***Rank: 14* | 1 January 2008 est. | **64,500***Rank: 13* | 2007 est. | **32,900***Rank: 23* | 2007 est. | **31,600***Rank: 9* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/65/Flag_of_Qatar.svg/23px-Flag_of_Qatar.svg.png [Qatar](https://en.wikipedia.org/wiki/Qatar) | **25,630,000***Rank: 3* | 1 January 2008 est. | **59,800***Rank: 14* | 2007 est. | **20,500***Rank: 3* | 2007 est. | **39,300***Rank: 7* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/9/9f/Flag_of_Indonesia.svg/23px-Flag_of_Indonesia.svg.png [Indonesia](https://en.wikipedia.org/wiki/Indonesia) | **2,659,000***Rank: 13* | 1 January 2008 est. | **56,000***Rank: 15* | 2007 est. | **23,400***Rank: 30* | 2007 est. | **32,600***Rank: 8* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fc/Flag_of_Mexico.svg/23px-Flag_of_Mexico.svg.png [Mexico](https://en.wikipedia.org/wiki/Mexico) | **392,200***Rank: 34* | 1 January 2008 est. | **55,980***Rank: 16* | 2007 est. | **68,290***Rank: 11* | 2007 est. | **2,973***Rank: 29* | 2007 est. | **11,690***Rank: 16* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/c/cb/Flag_of_the_United_Arab_Emirates.svg/23px-Flag_of_the_United_Arab_Emirates.svg.png [United Arab Emirates](https://en.wikipedia.org/wiki/United_Arab_Emirates) | **6,071,000***Rank: 5* | 1 January 2008 est. | **48,790***Rank: 17* | 2006 est. | **43,110***Rank: 16* | 2006 est. | **6,848***Rank: 24* | 2005 est. | **1,343***Rank: 46* | 2005 |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/fe/Flag_of_Egypt.svg/23px-Flag_of_Egypt.svg.png [Egypt](https://en.wikipedia.org/wiki/Egypt) | **1,656,000***Rank: 18* | 1 January 2008 est. | **47,500***Rank: 18* | 2007 est. | **31,800***Rank: 24* | 2007 est. | **15,700***Rank: 14* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/1/1a/Flag_of_Argentina.svg/23px-Flag_of_Argentina.svg.png [Argentina](https://en.wikipedia.org/wiki/Argentina) | **446,000***Rank: 32* | 1 January 2008 est. | **44,800***Rank: 19* | 2007 est. | **44,100***Rank: 15* | 2007 est. | **2,600***Rank: 31* | 2007 est. | **1,900***Rank: 44* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/b/b9/Flag_of_Australia.svg/23px-Flag_of_Australia.svg.png [Australia](https://en.wikipedia.org/wiki/Australia) | **849,500***Rank: 26* | 1 January 2008 est. | **43,620***Rank: 20* | 2007 est. | **29,400***Rank: 27* | 2007 est. | **19,910***Rank: 12* | 2007 est. | **5,689***Rank: 28* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/6/64/Flag_of_Trinidad_and_Tobago.svg/23px-Flag_of_Trinidad_and_Tobago.svg.png [Trinidad and Tobago](https://en.wikipedia.org/wiki/Trinidad_and_Tobago) | **481,300***Rank: 30* | 1 January 2008 est. | **39,000***Rank: 21* | 2007 est. | **20,800***Rank: 32* | 2007 est. | **18,100***Rank: 13* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/7/79/Flag_of_Nigeria.svg/23px-Flag_of_Nigeria.svg.png [Nigeria](https://en.wikipedia.org/wiki/Nigeria) | **5,210,000***Rank: 7* | 1 January 2008 est. | **34,100***Rank: 22* | 2007 est. | **12,900***Rank: 41* | 2007 est. | **21,200***Rank: 11* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/4/41/Flag_of_India.svg/23px-Flag_of_India.svg.png [India](https://en.wikipedia.org/wiki/India) | **1,075,000***Rank: 24* | 1 January 2008 est. | **31,700***Rank: 23* | 2007 est. | **41,700***Rank: 18* | 2007 est. | **0** | 2007 est. | **10,000***Rank: 21* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/3/32/Flag_of_Pakistan.svg/23px-Flag_of_Pakistan.svg.png [Pakistan](https://en.wikipedia.org/wiki/Pakistan) | **792,800***Rank: 28* | 1 January 2008 est. | **30,800***Rank: 24* | 2007 est. | **30,800***Rank: 25* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/d3/Flag_of_Kazakhstan.svg/23px-Flag_of_Kazakhstan.svg.png [Kazakhstan](https://en.wikipedia.org/wiki/Kazakhstan) | **2,832,000***Rank: 11* | 1 January 2008 est. | **27,880***Rank: 25* | 2007 est. | **30,580***Rank: 26* | 2007 est. | **8,100***Rank: 23* | 2007 est. | **10,800***Rank: 17* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/06/Flag_of_Venezuela.svg/23px-Flag_of_Venezuela.svg.png [Venezuela](https://en.wikipedia.org/wiki/Venezuela) | **4,708,000***Rank: 8* | 1 January 2008 est. | **26,500***Rank: 26* | 2007 est. | **26,500***Rank: 28* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/a/a9/Flag_of_Thailand.svg/23px-Flag_of_Thailand.svg.png [Thailand](https://en.wikipedia.org/wiki/Thailand) | **331,200***Rank: 38* | 1 January 2008 est. | **25,400***Rank: 27* | 2007 est. | **35,300***Rank: 21* | 2007 est. | **0** | 2007 est. | **9,800***Rank: 22* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/d/dd/Flag_of_Oman.svg/23px-Flag_of_Oman.svg.png [Oman](https://en.wikipedia.org/wiki/Oman) | **849,500***Rank: 27* | 1 January 2008 est. | **24,100***Rank: 28* | 2007 est. | **11,000***Rank: 44* | 2007 est. | **13,100***Rank: 16* | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/4/49/Flag_of_Ukraine.svg/23px-Flag_of_Ukraine.svg.png [Ukraine](https://en.wikipedia.org/wiki/Ukraine) | **1,104,000***Rank: 23* | 1 January 2008 est. | **21,050***Rank: 29* | 2008 est. | **66,320***Rank: 12* | 2008 est. | **4,000***Rank: 28* | 2006 est. | **65,400***Rank: 6* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/en/thumb/b/ba/Flag_of_Germany.svg/23px-Flag_of_Germany.svg.png [Germany](https://en.wikipedia.org/wiki/Germany) | **254,800***Rank: 41* | 1 January 2008 est. | **17,960***Rank: 30* | 2007 est. | **97,440***Rank: 5* | 2007 est. | **12,220***Rank: 17* | 2007 est. | **88,350***Rank: 3* | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/f9/Flag_of_Bangladesh.svg/23px-Flag_of_Bangladesh.svg.png [Bangladesh](https://en.wikipedia.org/wiki/Bangladesh) | **141,600***Rank: 47* | 1 January 2008 est. | **15,700***Rank: 31* | 2007 est. | **15,700***Rank: 39* | 2007 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/f/f6/Flag_of_Iraq.svg/23px-Flag_of_Iraq.svg.png [Iraq](https://en.wikipedia.org/wiki/Iraq) | **3,170,000***Rank: 10* | 1 January 2008 est. | **15,660***Rank: 32* | 2008 est. | **9,454***Rank: 46* | 2008 est. | **0** | 2007 est. | **0** | 2007 est. |
| https://upload.wikimedia.org/wikipedia/commons/thumb/0/05/Flag_of_Libya.svg/23px-Flag_of_Libya.svg.png [Libya](https://en.wikipedia.org/wiki/Libya) | **1,419,000***Rank: 21* | 1 January 2008 est. | **14,800***Rank: 33* | 2006 est. | **6,390***Rank: 53* | 2006 est. | **9,900***Rank: 21* | 2007 est. | **0** | 2007 est. |