



Sunday Times Predicts US As Top Oil Producer in 2017

Posted by [aeberman](#) on September 15, 2011 - 12:15am

Topic: [Supply/Production](#)

Tags: [goldman sachs](#), [oil supply](#) [[list all tags](#)]

Editor's Note: After posting this article, we received the cited report thanks to a Goldman Sachs partner. The report does not claim that the present or future liquids production is "oil" although the production levels reported by The Times are corroborated in the report. We have accordingly changed the title and made other minor modifications to the post but remain firm that the message is relevant and important.

On Sunday, September 11, 2011, The Sunday Times quoted a Goldman Sachs (GS) report also summarized by Rigzone that [predicted](#) the United States will become the world's largest oil-producing country. This astonishing production increase is accomplished by changing the definition of oil and by using optimistic projections of liquids-rich shale production.

The claim was that U.S. daily production will increase from 8.3 to 10.9 million barrels of oil per day (Mbopd) by 2017. This would surpass Russia and Saudi Arabia according to press reports. While these reports did not mention that Saudi Arabia claims it can produce as much as 12 Mbopd, they did state that Russia would not increase its current production of 10.7 Mbopd by more than 100,000 bopd by 2017. It is curious that the announcement was apparently not carried by any of the major business- or energy-oriented journals (Bloomberg, Wall Street Journal, Oil & Gas Journal, etc.) nor was it featured on the GS website.

It is unclear how GS arrived at 8.3 Mbopd*. According to the Energy Information Agency (EIA), daily U.S. production in June 2011 was 5.6 Mbopd (Exhibit 1). I assume that GS included natural gas liquids (NGL) and liquefied refinery gases (LRG) as liquids, but that only gets us to 7.8 Mbopd. It is possible that GS also included some fraction of biofuels as oil to arrive at 8.3 Mbopd.

Millions of Barrels Per Day	Crude Oil	Natural Gas Liquids & Liquefied Refinery Gases	Crude Oil + NGL/LRG	Fuel Ethanol & Oxygenates	TOTAL
June 2011	5.6	2.2	7.8	1.0	8.8

Exhibit 1. U.S. Crude Oil, Natural Gas Liquids, Liquefied Refinery Gases, and Other Liquids Production June, 2011. Data from EIA.

NGL and LRG are not crude oil. These result from processing impurities and various non-methane hydrocarbons and fluids to produce what is known as 'pipeline quality' dry natural gas. These liquids and liquefied gases include ethane, propane, butane, pentane, and certain condensates that do not naturally separate from crude oil. They contain approximately 60-70% of the heating content of oil so a barrel of NGL/LRG is not comparable to a barrel of oil. In fact, ethane, the largest component of NGL, is not even a fuel and is used primarily to make plastic.

U.S. crude oil production growth will come principally from the Bakken Shale in North Dakota and Montana, and from the resource plays of the Permian basin in West Texas and New Mexico. Bakken-Three Forks production has reached about 400,000 bopd and some believe it could eventually exceed 1 Mbopd. Most of the renewed activity in the Permian basin is from shale and

low permeability limestone reservoirs. Permian production has [increased](#) from a low of 841,000 bopd in 2004 by 100,000 bopd in 2010.

Early Eagle Ford production estimates in South Texas are as high as 750,000 bopd of liquids that include both condensate and NGL (Bernstein Research, August 24, 2011). Condensate, like NGL, is not crude oil although it can be used as a fuel. While there is great enthusiasm and hope for the Eagle Ford Shale, it is a very new play and there is insufficient production history in the liquid portion of the play to confidently estimate reserves. It seems highly speculative to extrapolate from current rates of about 14,000 to 750,000 bopd by 2015.

I assume that most of the remainder of the increased future production in the Times announcement comes from NGL in the [Marcellus Shale](#) in Pennsylvania, New York and West Virginia. This is another play that is in an early stage of development and has similar uncertainties as were described for the Eagle Ford Shale. Underscoring this uncertainty, in late August, the U.S. Geological Survey (USGS) [downgraded](#) the Marcellus Shale technically recoverable resources by 80% from EIA estimates earlier this year.

Some will undoubtedly interpret the Sunday Times article citing Goldman Sachs to mean that energy concerns for the U.S. are over and that, as the biggest oil producer in the world, we will no longer depend on foreign oil. The most optimistic increase in oil production will mean that the U.S. still will have to import more than half of our oil based on present consumption levels.

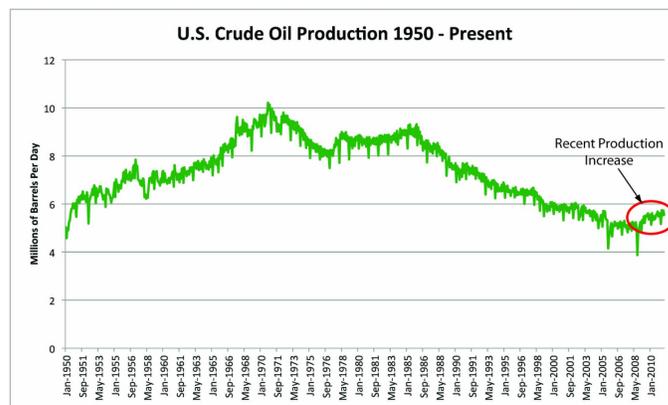


Exhibit 2. U.S. Crude Oil Production 1950-Present. Data from EIA.

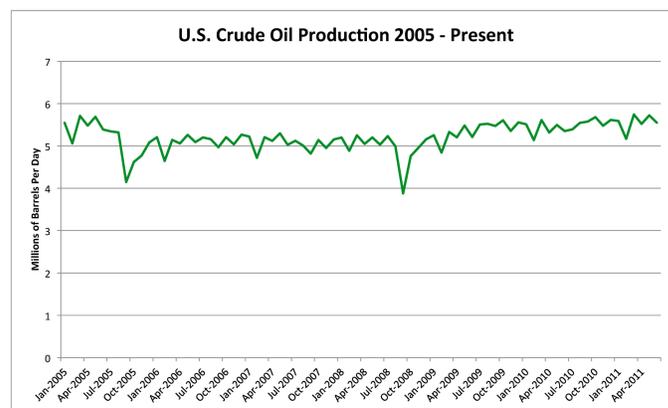


Exhibit 3. U.S. Crude Oil Production 2005-Present. Data from EIA.

It is likely that the public will not understand that the production increase will come only by drilling tens of thousands of wells that will produce at very low rates after the first year. That means that the oil will likely be expensive and will not provide consumers with relief from high oil

prices. The good news is that the U.S. will be sending fewer dollars out of the country and the drilling and producing activity will be good for jobs.

**The Oil Drum contacted GS and requested the report or a summary. We received the report after this story was posted. The information in the report corroborates the production increases mentioned in the Sunday Times and Rigzone articles*



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