

Oilfield Processing Vol 2 Crude Oil

Peak oil

Heavy Oil (PDF). Oilfield Review. Retrieved 24 May 2008. Weissman, Jeffrey G.; Kessler, Richard V. (20 June 1996). "Downhole heavy crude oil hydroprocessing"

Peak oil is the point when global oil production reaches its maximum rate, after which it will begin to decline irreversibly. The main concern is that global transportation relies heavily on gasoline and diesel. Adoption of electric vehicles, biofuels, or more efficient transport (like trains and waterways) could help reduce oil demand.

Peak oil relates closely to oil depletion; while petroleum reserves are finite, the key issue is the economic viability of extraction at current prices. Initially, it was believed that oil production would decline due to reserve depletion, but a new theory suggests that reduced oil demand could lower prices, affecting extraction costs. Demand may also decline due to persistent high prices.

Over the last century, many predictions of peak oil timing have been...

Oil refinery

An oil refinery or petroleum refinery is an industrial process plant where petroleum (crude oil) is transformed and refined into products such as gasoline

An oil refinery or petroleum refinery is an industrial process plant where petroleum (crude oil) is transformed and refined into products such as gasoline (petrol), diesel fuel, asphalt base, fuel oils, heating oil, kerosene, liquefied petroleum gas and petroleum naphtha. Petrochemical feedstock like ethylene and propylene can also be produced directly by cracking crude oil without the need of using refined products of crude oil such as naphtha. The crude oil feedstock has typically been processed by an oil production plant. There is usually an oil depot at or near an oil refinery for the storage of incoming crude oil feedstock as well as bulk liquid products. In 2020, the total capacity of global refineries for crude oil was about 101.2 million barrels per day.

Oil refineries are typically...

Shengli Oil Field

covering a large number of oil reservoirs. The Shengli Oil Field is an important component of the wider CNOOC Bohai Oilfield. The oil industry produces significant

The Shengli Oil Field (simplified Chinese: 胜利油田; traditional Chinese: 勝利油田; pinyin: Shènglì Yóutián; lit. 'Victory Oil Field') is the second-largest oil field in China. Located in the delta of the Yellow River, it was discovered in 1961, and oil production began in earnest in 1964. Oil output quickly increased, peaking in 1991 at 33.55 million tons. While output has decreased since then, enhanced oil recovery techniques have maintained oil production at high levels, producing around 650,000 barrels (103,000 m³) per day.

The Shengli Oil Field Company is a subsidiary of Sinopec. The oil field also produces natural gas, and activities have recently expanded into shale oil, solar power, and wind power. The development of the oil fields was an important contributor to the economy of the local area...

Inglewood Oil Field

of the oilfield also receives crude oil, gas, and produced water by pipeline from Freeport McMoRan's drilling island at the Beverly Hills Oil Field on

The Inglewood Oil Field in Los Angeles County, California, is the 18th-largest oil field in the state and the second-most productive in the Los Angeles Basin. Discovered in 1924 and in continuous production ever since, in 2012 it produced approximately 2.8 million barrels of oil from some five hundred wells. Since 1924 it has produced almost 400 million barrels, and the California Department of Oil, Gas and Geothermal Resources (DOGGR) has estimated that there are about 30 million barrels remaining in the field's one thousand acres, recoverable with present technology.

The field is operated by Sentinel Peak Resources, which acquired it in their purchase of Freeport McMoRan's onshore California oil and gas assets in 2016. Freeport McMoRan acquired it from Plains Exploration & Production in...

Bonny Light oil

medium oil like bonny light oil are produced.[citation needed] Searching and exploitation of oil are done in that area which 90% of crude oil production

Bonny Light oil was found at Oloibiri in the Niger delta region of Nigeria in 1956 for its commercial use. Due to its features of generating high profit, it is highly demanded by refiners. Bonny light oil has an API of 32.9, classified as light oil. It is regarded as more valuable than the other oils with lower API as more high-value products are produced in the refinement. However, in Nigeria, problems due to oil spillage caused by vandalism, affects both human and the ecosystem in detrimental ways. Some experiments on animals and soil are done to figure out those impacts on organisms.

Shale oil extraction

processing underground (on-site or in situ processing) by applying heat and extracting the oil via oil wells. The earliest description of the process

Shale oil extraction is an industrial process for unconventional oil production. This process converts kerogen in oil shale into shale oil by pyrolysis, hydrogenation, or thermal dissolution. The resultant shale oil is used as fuel oil or upgraded to meet refinery feedstock specifications by adding hydrogen and removing sulfur and nitrogen impurities.

Shale oil extraction is usually performed above ground (ex situ processing) by mining the oil shale and then treating it in processing facilities. Other modern technologies perform the processing underground (on-site or in situ processing) by applying heat and extracting the oil via oil wells.

The earliest description of the process dates to the 10th century. In 1684, England granted the first formal extraction process patent. Extraction industries...

Petroleum

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Petroleum, also known as crude oil or simply oil, is a naturally occurring, yellowish-black liquid chemical mixture found in geological formations, consisting mainly of hydrocarbons. The term petroleum refers both to naturally occurring unprocessed crude oil, as well as to petroleum products that consist of refined crude oil.

Petroleum is a fossil fuel formed over millions of years from anaerobic decay of organic materials from buried prehistoric organisms, particularly planktons and algae. It is estimated that 70% of the world's oil deposits were formed during the Mesozoic, 20% were formed in the Cenozoic, and only 10% were formed in the Paleozoic. Conventional reserves of petroleum are primarily recovered by drilling, which is done after a study of the relevant structural geology, analysis...

Kirkuk-Haifa oil pipeline

Kirkuk-Mediterranean pipeline was a mixed 10/12-inch twin crude oil pipeline from the oil fields in Kirkuk, located in the former Ottoman vilayet of

The Kirkuk-Mediterranean pipeline was a mixed 10/12-inch twin crude oil pipeline from the oil fields in Kirkuk, located in the former Ottoman vilayet of Mosul in northern Iraq, through Transjordan to Haifa in mandatory Palestine (now in the territory of Israel); and through Syria and a short stretch of what was to become the state of Lebanon to Tripoli. The oil arriving on the coast was shipped to European refineries until in 1939 the refinery in Haifa was completed, soon capable of processing the entire supply. For a few years before 1948, crude oil was transported from Tripoli to Haifa by tankers.

The pipeline was built by the Iraq Petroleum Company between 1932 and 1934 (and the first pipeline built by the company). The double pipeline split at Haditha (Pumping Station K-3) at the Euphrates...

Anglo-Egyptian Oilfields

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Anglo-Egyptian Oilfields Limited was an oil company registered in London, England on 6 July 1911 with a capital of £676,000 (£226,000 Anglo-Saxon Petroleum (Royal Dutch Shell), £450,000 Red Sea Oilfields Ltd) with oilfields in Egypt. It was a subsidiary of Royal Dutch Shell.

Egypt was the first oil producing country in the Middle East, even before Iran, but production was quite insignificant compared to the region's major oil producing countries.

The company headquarter was moved from London to Cairo in 1951 and taxes were henceforth paid to the Egyptian government, except those on dividends paid to UK residents. The company board for the first time met on July 10 in the newly build 10-story Shell House headquarters in which the Shell Company of Egypt Ltd and Anglo-Iranian Oil Co. (Egypt)...

Oil sands

(28.11×10⁹ m³), or 70.8%, are in Alberta, Canada. Crude bitumen is a thick, sticky form of crude oil, and is so viscous that it will not flow unless heated

Oil sands are a type of unconventional petroleum deposit. They are either loose sands, or partially consolidated sandstone containing a naturally

occurring mixture of sand, clay, and water, soaked with bitumen (a dense and extremely viscous form of petroleum).

Significant bitumen deposits are reported in Canada, Kazakhstan, Russia, and Venezuela. The estimated worldwide deposits of oil are more than 2 trillion barrels (320 billion cubic metres). Proven reserves of bitumen contain approximately 100 billion barrels, and total natural bitumen reserves are estimated at 249.67 Gbbl (39.694×10^9 m³) worldwide, of which 176.8 Gbbl (28.11×10^9 m³), or 70.8%, are in Alberta, Canada.

Crude bitumen is a thick, sticky form of crude oil, and is so viscous that it will not flow unless heated or diluted...

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