

PROJECTS TIMELINE

2006

Haradh-III Increment

START-UP DATE: January 2006

Haradh is located at the southern tip of Ghawar, the world's largest onshore oil field, and produces Arabian Light crude oil. A project to increase crude oil production capacity involved the construction of three gas-oil separation plants (GOSPs), each with more than 300,000 bpd of production capacity.

The first of these increments, Haradh GOSP-1, went on-stream in March 1996. The second increment, Haradh GOSP-2, was commissioned in April 2003.

- **Haradh GOSP-3 Production:** 300,000 bpd Arabian Light crude oil; 140 million scfd associated gas.

2007

Hawiyah NGL Recovery Plant

START-UP DATE: Fourth quarter 2007

This plant will boost petrochemical feedstock to the industrial cities of Jubail on the Arabian Gulf and Yanbu' on the Red Sea. Increasing the supply of high-value products from the Saudi gas sector is necessary to meet the expanding needs of the Kingdom's petrochemical industry.

- **Production:** 4 billion scfd sales gas;
318,000 bpd NGL.

Khursaniyah Development Program

The overall Khursaniyah Development Program includes oil production facilities, a grass-roots gas plant, two cogeneration units (each with a capacity of 150 megawatts) as well as water treatment and steam generation facilities to serve the Khursaniyah Producing Facilities and the Khursaniyah Gas Plant.

2007

Khursaniyah Producing Facilities**START-UP DATE:** December 2007

Arabian Light crude oil will be produced and treated from three fields: Abu Hadriyah, Fadhili and Khursaniyah.

- **Production:** 500,000 bpd Arabian Light crude oil.

Khursaniyah Gas Plant**START-UP DATE:** December 2007

The gas feed will include associated gas from crude production from the Khursaniyah Producing Facilities increment and other adjacent fields.

- **Production:** designed to process 1 billion scfd of associated gas to produce 550 million scfd sales gas; 290,000 bpd ethane plus NGL.

2008

Ju'aymah Gas Plant Expansion

START-UP DATE: First quarter 2008

Fractionation capacity will be expanded by almost 50 percent. The plant's new module is designed to fractionate ethane and NGL streams from Hawiyah NGL Recovery Plant and Khursaniyah Gas Plant.

- **Production:** additional capacity of 260,000 bpd for a total of 815,000 bpd.

Hawiyah Gas Plant Expansion

START-UP DATE: July 2008

This facility became operational in December 2001. It can process 1.6 billion scfd of raw non-associated gas from wells in the Ghawar field and produce 1.4 billion scfd of sales gas and 170,000 bpd of condensate.

- **Production:** additional capacity of 800 million scfd for a total of 2.4 billion scfd.

2008

Nuayyim**START-UP DATE: December 2008**

This oil field was discovered in April 1990, in Central Saudi Arabia south of Riyadh, and produces Arabian Super Light crude.

- **Production:** 100,000 bpd.

PetroRabigh Petrochemical Complex**START-UP DATE: 2008**

This project will transform the Rabigh Refinery into a fully integrated refining and petrochemical complex. The facility will supply petrochemical feedstocks to new industrial clusters which will manufacture value-added goods and products for export, further diversifying the domestic economy.

- **Production:** 2.5 million tons of petrochemical derivatives; high quality fuels.

2008 — Shaybah Expansion

START-UP DATE: December 2008

Located deep in the Rub' al-Khali, the Shaybah facility has delivered 500,000 bpd of Arabian Extra Light crude oil since 1998. Construction of Shaybah GOSP-4 is under way.

- **Production:** additional 250,000 bpd Arabian Extra Light crude oil for a total of 750,000 bpd.



2008

Yanbu' NGL Plant Expansion**START-UP DATE: December 2008**

Currently, the plant has an overall fractionation capacity of 390,000 bpd. Detailed engineering design is progressing to increase this capacity by 50 percent.

- **Production:** additional capacity of 195,000 bpd for a total of 585,000 bpd.

Yanbu' Gas Plant De-ethanizer Column**START-UP DATE: December 2008**

This project will increase ethane and NGL processing to help meet the growing demand for feedstock supply.

- **Production:** additional capacity of 185,000 bpd for a total of 550,000 bpd.

2009 — Khurais

START-UP DATE: June 2009

The fourth-largest crude oil field in the world, Khurais is the largest integrated project in Saudi Aramco history. This increment includes production from Abu Jifan and Mazalij fields. Associated facilities include dehydration and compression of 450 million scfd of gas, and expansion of Southern Area seawater injection capacity by 4.5 million bpd.

- **Production:** 1.2 million bpd of Arabian Light crude oil.



2009 — **Fujian Integrated Project****START-UP DATE: 2009**

This proposed project, in cooperation with Fujian Petrochemical Company Ltd. and ExxonMobil, will triple the existing crude capacity of the Fujian refinery in China. The resulting petroleum products will be sold mainly through a marketing joint venture between Saudi Aramco Sino Company Limited (SASCO) (a wholly-owned subsidiary of Saudi Aramco), Sinopec and ExxonMobil.

- **Production:** 240,000 bpd.
- **Associated facilities:** Petrochemical complex.

— **East-West NGL Pipeline Enlargement****START-UP DATE: December 2009**

Capacity will be increased by 130,000 bpd to accommodate increased NGL production.

- **Capacity:** 550,000 bpd.

2011

Manifa

START-UP DATE: mid-2011

The fifth-largest crude oil field in the world, Manifa was originally discovered in 1957. New facilities include 25 miles (41 km) of causeway and a 1.9 mile (3 km) bridge to support 27 drilling islands, 11 offshore platforms, an onshore central oil and gas processing facility, water supply wells and injection facilities.

- **Production:** 900,000 bpd Arabian Heavy crude oil; 105 million scfd of sour associated gas.

Export Refineries

START-UP DATE: second half of 2011

In May 2006, separate Memoranda of Understanding were signed with ConocoPhillips and Total for the development of export refineries in Yanbu' and Jubail, respectively. These refineries will be designed to refine heavy, sour crude into products that meet current and future U.S. and European specifications.

- **Production:** 400,000 bpd each.