

April 17, 2020

JXTG Nippon Oil & Energy Corporation

Feasibility Study on ENB Expansion in Saudi Arabia

JXTG Nippon Oil & Energy Corporation (President: Ota Katsuyuki “JXTG”) is pleased to announce that it will conduct the feasibility study of a new Ethylidene Norbornene (ENB) plant, to be built in Jubail, on Saudi Arabia’s eastern coast, as part of the petrochemical Amiral complex*, announced by Saudi Aramco and Total on October 8th, 2018.

ENB is an important component in the manufacture of Ethylene Propylene Diene Monomer (EPDM), an advanced heat and weather resistant synthetic rubber used primarily in the automotive and construction industries. Demand for ENB has been increasing strongly alongside the growth in the automotive production sector.

JXTG Group is the world’s leading ENB producer with one production line in Japan and two production lines in the USA. The company provides stable ENB supply for their worldwide customers through independent production locations and its network of terminals in the USA, Europe, and Asia. JXTG Group has developed the ENB business since 1979 and has grown its production to an overall capacity of 68,000 tons per year in April 2020.

JXTG Group will commence the feasibility study for the new ENB plant project in Saudi Arabia, which would make the Kingdom a third production site along with Japan and the USA. The location in the Kingdom of Saudi Arabia, downstream of the world scale mixed feed cracker of the Amiral petrochemical complex which is being jointly developed by Saudi Aramco and Total will ensure the future ENB plant of the reliable supply of raw materials and energy. With ENB demand expected to be firm and increasing in the mid and long term, this project will contribute to the stable ENB supply chain of the JXTG Group, not only to existing customers, but also to future customers around the world.

In its Long-Term Vision and Medium-Term Management Plan, the JXTG Group has set a goal of advancing into the high value-added derivatives business and expanding it globally. By providing a stable supply of products in these businesses, JXTG aims to become one of the most prominent and internationally-competitive energy and materials company groups in Asia.



Fact Sheet: JXTG ENB Plant in Saudi Arabia

Location	Jubail, Saudi Arabia
Proposed capacity of new ENB plant	23,000 tons per year
Expected commencement of commercial operation	Late 2020s'
Feedstock supplier	Amiral Project(*)

* Amiral Complex : this project, announced in April 2018, consists of a petrochemical complex that will be integrated downstream of the SATORP refinery, in joint venture between Saudi Aramco (62.5%) and Total (37.5%). It will comprise a world-scale mixed-feed cracker – the first in the Gulf region to be integrated with a refinery – with a capacity of 1.5 million tons per year of ethylene and related high-added-value petrochemical units.

JXTG Milestone of ENB Production Capacity

1979	The first ENB plant (ENB 1) was constructed and began production in Japan. In 1997, ENB capacity was expanded to 20,000 tons per year.
2003	The second ENB plant (ENB 2) was constructed and began production in the USA. The first US plant had a capacity of 20,000 tons per year, yielding a total global capacity of 40,000 tons per year.
2007	The third ENB plant (ENB3) was constructed and began production in the USA. ENB 3 added 20,000 tons per year capacity for 40,000 tons per year in the USA, yielding a total global capacity of 60,000 tons per year.
2015	ENB 1 capacity was expanded to 22,000 tons per year. The ENB 1 expansion increased global ENB production to 62,000 tons per year.
2020	ENB 2 and ENB 3 were expanded by 6,000 tons per year for a total of 46,000 tons per year. The total current capacity of Japan and the USA is 68,000 tons per year.

Existing JXTG ENB Plants

Plant	ENB 1	ENB 2 and ENB 3
Location	Ibaraki, Japan	Texas, USA
Start up	April 1979	ENB 2: May 2003 ENB 3: July 2007
Production Capacity	22,000 tons per year	46,000 tons per year

