

SHOWCASE PLANTS

ExxonMobil
Baytown, Texas



ExxonMobil is the largest energy company in the world, doing business in nearly 200 countries on six continents. ExxonMobil's Refining and Supply business is built on world-class assets, including ownership in 46 refineries located in 26 countries. ExxonMobil Chemical Company, a division of ExxonMobil Corporation, is the third-largest petrochemical company in the world. ExxonMobil Chemical is an integrated manufacturer and global marketer of various petrochemical products, such as: olefins, aromatics, petroleum based fluids, synthetic rubber, polyethylene, polypropylene, oriented polypropylene petroleum based films, plasticizers, synthetic lubricant basestocks, additives for fuels and lubricants, and zeolite catalysts. ExxonMobil Chemical is the world's second largest producer of ethylene, which is the basic building block for many products, such as: plastics, packaging, detergents, solvents, cosmetics, pharmaceuticals, paint, and building products.

The ExxonMobil petroleum refinery/petrochemical complex, located in Baytown, TX is the largest of its kind in the world. The complex consists of a refinery, two chemical plants, and two research centers. ExxonMobil provides Baytown with approximately 4,000 full-time and 2,000 contract jobs. Currently, the Baytown Refinery processes approximately 500,000 barrels of crude each day. In 1940, the Baytown Chemical Plant began operations which now produce products such as polypropylene (for packaging and diapers) and butyl polymers (for tires and bottle stoppers). In 1979, the Baytown Olefins Plant opened which currently has the capacity to produce more than 4 billion pounds (1.9 million metric tons) of ethylene each year. Combined with 14 separate locations, ExxonMobil is capable of producing 7.9 million metric tons of ethylene a year, with the Baytown Plant being the single largest producer in the world. The Baytown Plant has been able to increase production and efficiency by modifying the existing facility and adding a new ethylene steam cracking system.

Research and development are key to ExxonMobil, attracting some of the world's finest chemists and engineers. The Baytown area hosts the Baytown Polymers Center (BPC) & the Basic Chemicals and Intermediates Technology (BCIT) facilities. BPC primary focus is polymers and catalysis research, with a major portion of the R&D is in the area of polyethylene and polypropylene polymers, products primarily used in the plastics industry. Olefins and Aromatics are the primary products for Basic Chemicals and Fluids, Vinyls and Acids are the primary products for Intermediates. Baytown is also home to the ExxonMobil Americas Research & Engineering Organization (supporting America's Refining interests) and the ExxonMobil Chemical Engineering & Manufacturing Services organization (supporting worldwide Chemical's interests).

ExxonMobil is continuously aware of the importance of environmental safety and the goal of lower emissions. With a partnership with the U.S. DOE, Office of Energy Efficiency and Renewable Energy, ExxonMobil has participated in multiple projects such as: Enhanced Heat Exchangers in Process Heaters; Gas Imaging for Advance Leak Detection; and as a participating advisor of the "Energy-Efficiency Improvement and NOx Reduction Options Software Scoping Tool".