

AXENS AWARDED PARAMAX TECHNOLOGY SUITE FOR CHINA'S CNOOC HUIZHOU PETROCHEMICAL COMPANY LIMITED (CHPCL)

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CNOOC Huizhou Petrochemical Company Limited (CHPCL) has selected Axens' **ParamaX®** Technology Suite for its petrochemical complex expansion in Daya Bay, China.

The project aims at increasing CHPCL's high-purity [aromatics](#) production capacity to 3,000,000 tons per year. The new aromatics complex will produce 1,500,000 tons per year of para-Xylene in a single train.

Axens offered its second generation of the energy-efficient **ParamaX®** Suite of technologies for the cost-effective production of para-Xylene, benzene and mixed xylenes from aromatic-rich reformat and pyrolysis gasoline.

The ParamaX® Suite includes the following solutions:

- o [Arofining™](#) selective olefin removal technology, originally developed by Axens,
- o [Eluxyl®](#) 1.15 para-Xylene purification technology, originally developed by Axens,
- o [XyMaxSM-2](#), C₈ aromatics [isomerization](#) technology, originally developed by ExxonMobil Chemical Technology Licensing,
- o [TransPlusSM-5](#), aromatics transalkylation technology, originally developed by ExxonMobil Chemical Technology Licensing.

Axens' second generation of the energy-efficient **ParamaX®** Suite provides superior aromatics yields while greatly reducing the plant's energy consumption and enabling to manage investments for cost-advantaged aromatics production.

Since 2009, CHPCL has been satisfactorily operating an Axens' **ParamaX** complex with a production rate exceeding 1,300,000 tons of pure aromatics per year.

Axens' Process Licensing Global Business Unit Executive Vice-President Patrick Sarrazin said, " *This brand-new, state-of-the-art aromatics complex will allow CHPCL to further improve its resilience and competitiveness while producing highly valuable aromatics products.* "

Axens will also supply [catalysts](#), [adsorbents](#), equipment and a full-service offer from plant personnel training to successful plant start-up, followed by plant performance monitoring services.

The **ParamaX®** Technology Suite is a combination of top-of-the-line processes aimed at the production of high-purity para-Xylene and other aromatic molecules such as meta-Xylene, ortho-Xylene, Benzene and Toluene.

To date, Axens has licensed more than 30 **ParamaX®** aromatics complexes and more than 400 process units aimed at aromatics production or transformation.

About Axens

Axens (www.axens.net) is a group providing a complete range of solutions for the conversion of oil and biomass to cleaner fuels, the production and purification of major petrochemical intermediates as well as all of natural gas' treatment and conversion options. The offer includes technologies, equipment, furnaces, modular units, catalysts, adsorbents and related services. Axens is ideally positioned to cover the entire value chain, from feasibility study to unit start-up and follow-up throughout the entire unit cycle life. This unique position ensures the highest level of performance with a reduced environmental footprint. Axens global offer is based on highly trained human resources, modern production facilities and an extended global network for industrial, technical supports & commercial services. Axens is an IFP Group company.

About CNOOC Huizhou Petrochemical Company Limited

CHPCL is the first large-scale refinery wholly owned by the China National Offshore Oil Corporation and the first refinery in the world that focuses on the processing of high-acid heavy crude oil. It is located in the Daya Bay Economic and Technological Development Zone, Huizhou City, Guangdong Province, adjacent to Shenzhen and Hong Kong, covering an area of 268 square kilometers, with a total investment of 21.6 billion yuan in the first phase and a crude oil processing scale of 12 million tons / year, including 16 sets of main production units, such as pressure distillation, [hydrocracking](#), delayed coking, continuous reforming, etc., complete with crude oil and product oil terminals, storage tanks and utilities. It mainly produces more than 11.5 million tons of petrochemical products in 15 categories, including gasoline, aviation coal, diesel, benzene, liquefied gas, propylene, ethylene cracking material, sulfur, petroleum coke, etc. It is a major strategic measure for CNOOC to further improve its industrial chain, ensure the maximum economic benefit upstream and downstream, and build a first-class international energy company.

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