



Progress beyond

Solvay to supply technology license for hydrogen peroxide mega-plant in China

Under the license, the Group will provide GHCAC with high-productivity hydrogen peroxide technology, a comprehensive process design package and operating expertise

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Solvay, a global market leader in specialty chemicals, has signed a license agreement with Guangxi Chlor-Alkali Chemical (GHCAC)¹ which will enable the Chinese partner to build and operate a [hydrogen peroxide](#) megaplant at Qinzhou (Guangxi Zhuang Autonomous Region) designed to support its 300 kilotons propylene oxide (PO) production and other units on site.

Under this license, Solvay will provide its proprietary hydrogen peroxide mega-scale, high productivity process technology to GHCAC, including a dedicated process design package, operating expertise and a range of services to ensure the optimized and reliable production of the new megaplant. In addition, the company will also supply GHCAC with proprietary 2-amylanthraquinone (AQ), the key chemical contributing to the high productivity and environmentally-friendly chemical processes of Solvay's megaplant technology.

It has been further agreed that Solvay will have a hydrogen peroxide offtake after the megaplant starts up. This will support the strategic growth of Solvay's hydrogen peroxide business in China, in particular in the southern area.

"We are very pleased that GHCAC has chosen our advanced hydrogen peroxide technology for this important megaplant project in Qinzhou," says Peter Browning, President of Solvay's Peroxides global business unit. "This will allow the customer to meet market needs with a process design package backed by more than 50 years of experience, which provides an energy efficient and cost competitive solution with an excellent safety track record."

Weimin Zhang, General Manager of Shanghai Chlor-Alkali Chemical, commented: "We are honored to work with Solvay in this ambitious venture, which will enable us to run the new hydrogen peroxide megaplant at lower energy consumption and less CO₂ emissions than competitors. Next to the proven safety, reliability and cost effectiveness of Solvay's high-productivity hydrogen peroxide technology, its sustainability benefits were instrumental to deploying it at our Qinzhou site."

¹ Guangxi Chlor-Alkali Chemical Co., Ltd. is a joint venture between Shanghai Chlor-Alkali Chemical Co., Ltd. and their parent corporation, Shanghai Huayi Group Co., Ltd.



The propylene oxide is a versatile chemical intermediate for a wide range of materials in many industrial and commercial market segments, including polyurethanes, propylene glycol ethers and propoxylated organic specialty compounds.

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About Solvay

Solvay is a science company whose technologies bring benefits to many aspects of daily life. With more than 22,000 employees in 61 countries, Solvay bonds people, ideas and elements to reinvent progress. The Group seeks to create sustainable shared value for all, notably through its Solvay One Planet roadmap crafted around three pillars: protecting the climate, preserving resources and fostering a better life. The Group's innovative solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices, health care applications, water and air purification systems. Founded in 1863, Solvay today ranks among the world's top three companies for the vast majority of its activities and delivered net sales of €13.4 billion in 2022. Solvay is listed on Euronext Brussels and Paris (SOLB). Learn more at www.solvay.com.

About GHCAC

Located in Qinzhou, Guangxi Zhuang Autonomous Region, Guangxi Huayi Chlor-Alkali Chemical Co., Ltd. (GHCAC) is a joint venture company between Shanghai Huayi Group Corporation, Ltd and Shanghai Chlor-Alkali Chemical Co., Ltd. Shanghai Huayi Group is a chemical corporation with more than 20 wholly-owned or partially owned subsidiaries in energy chemical industry, advanced materials, green tires, fine chemical industry and chemical services. The group has nearly 40,000 employees and is also a parent company of several JVs with international partners. Shanghai Chlor-Alkali Chemical Co., Ltd. is a leading producer and supplier of chlor-alkali products in China, including mainly caustic soda, chlorine as well as polyvinyl chloride resins and related products.