

Press release

Solvay licenses hydrogen peroxide process technology to North Huajin Refining and Petrochemical Company

Using Solvay's process expertise, North Huajin will build a mega-plant for hydrogen peroxide to manufacture propylene oxide in China.

Brussels, November 5, 2024

Solvay has entered into an agreement to license its leading-edge [hydrogen peroxide technology](#) to North Huajin Refining and Petrochemical Company (North Huajin) for the manufacturing of 300 kilotons of propylene oxide per year in its Panjin (Liaoning Province, China) facility, with a planned launch in 2026.

Solvay partners with customers through its advanced hydrogen peroxide technology to build efficient, reliable, and safe production facilities. For [North Huajin](#), Solvay will provide its proprietary mega-scale process, complete with a process design package, operational expertise, and support services to ensure reliable, optimized output.

In addition, Solvay will supply proprietary 2-aminanthraquinone (AQ), the key chemical contributing to the high productivity and environmentally-friendly chemical process of Solvay's mega plant technology. This will support the strategic growth of Solvay's hydrogen peroxide business in China.

"This marks the third licensing agreement for Solvay's proprietary high-productivity, mega-scale hydrogen peroxide process technology in China," said Carlos Silveira, President of Solvay's Peroxides business. "Through these partnerships, we assist our customers in producing high-quality hydrogen peroxide with the same performance as our own facilities. We look forward to working closely with North Huajin."

Mr. Jin Xiaochen, President of North Huajin, added: "This agreement represents a significant milestone in the developing collaboration between our two companies. We believe that by combining our strengths in resources, value chain, and deep local market knowledge with Solvay's expertise, advanced technology, and production management capabilities, we will be better equipped to meet the market's needs."

HPPO (Hydrogen Peroxide to Propylene Oxide) is the main process for producing propylene oxide (PO), a key chemical intermediate used to make polyurethane foams (for mattresses and car seats), adhesives, coatings, and various plastics and chemicals essential to industries such as construction, automotive, healthcare, and agriculture.

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About Solvay

Solvay, a pioneering chemical company with a legacy rooted in founder Ernest Solvay's pivotal innovations in the soda ash process, is dedicated to delivering essential solutions globally through its workforce of over 9,000 employees. Since 1863, Solvay harnesses the power of chemistry to create innovative, sustainable solutions that answer the world's most essential needs such as purifying the air we breathe and the water we use, preserving our food supplies, protecting our health and well-being, creating eco-friendly clothing, making the tires of our cars more sustainable and cleaning and protecting our homes. Solvay's unwavering commitment drives the transition to a carbon-neutral future by 2050, underscoring its dedication to sustainability and a fair and just transition. As a world-leading company with €4.9 billion in net sales in 2023, Solvay is listed on Euronext Brussels and Paris (SOLB). For more information about Solvay, please visit solvay.com or follow [Solvay](#) on LinkedIn.

About North Huajin Refining and Petrochemical Company Limited

[North Huajin Chemical Industries](#) Co., Ltd is a China-based company focused on developing new chemical materials and high-end fine chemical products. Key construction includes 32 new production units and supporting facilities, such as a 15-million-ton-per-year oil refinery and a 1.65-million-ton-per-year ethylene plant. Once the project is operational, annual sales revenue is expected to exceed 100 billion yuan.