

## ECI Group, in partnership with Repsol, signs an Engineering Expertise Agreement for Shandong Yulong's integrated refining and petrochemical complex

- ECI Group will provide the technology, design, and training for the facility, and support through commissioning, start-up, and production for this new dual-stream high-pressure plant.
- Repsol will offer its knowledge in the production and operation for the new 200,000 tons per year ethylene vinyl acetate (EVA) copolymer plant and know-how regarding the development of EVA differentiated applications.

ECI Group has signed an Engineering Expertise Agreement with Shandong Yulong Petrochemical Co. Ltd., a subsidiary of China's Nanshan Group, for a dual-stream plant capable of producing 200,000 tonnes per year of Ethylene Vinyl Acetate (EVA) and other associated high-pressure copolymers in the future.

The plant will be part of Shandong Yulong's 20 million tonnes per year refining and petrochemical integrated project, a mega complex to be located in the Province of Shandong. ECI Group will provide the technology, design, and training for the facility, as well as support through commissioning, start-up, and production.

Repsol, the multi-energy company, is the technology partner of ECI Group and will provide its extensive technical expertise on these kinds of plants and products. Repsol has several LDPE, EVA, and EBA plants in its industrial complexes in Spain and Portugal and has over 40 years of experience producing polymers in high-pressure facilities.

The plant will use high-pressure autoclave technology that has its roots in the heritage ICI process to manufacture of Polyethylene. ICI first created LDPE in the 1930s, and ICI partnered with ECI Group's subsidiary company Simon Carves over five decades to deliver over 67 operating reactor lines around the world. The ECI Group design offers significant improvements in the product range, reliability, and expandability to the original ICI technology, and is optimized to make use of modern materials, design techniques, standards, and industry best practices for construction, operation, and maintenance.

"This agreement is an important milestone for ECI Group and Repsol," said Joaquin Flores, President of ECI Group. "ECI Group is already recognized globally as the world's leading provider of engineering and technical services for high-pressure polyethylene facilities, having worked with every major current producer and licensor. The execution of this agreement confirms the strength of our new technology offering, incorporating Repsol's in-depth product knowledge and market reputation to further enhance ECI Group's established expertise. We are excited to support Shandong Yulong Petrochemical Ltd. on this prestigious project, and we look forward to a long and successful relationship."

"It is a great highpoint for Repsol to see the results of this important partnership with ECI Group, a leading engineering and technology company in the petrochemical industry. We are looking forward to



providing our expertise to Shandong Yulong Petrochemical Ltd. for their Refining and Petrochemical Integrated Project,” stated José Luis Bernal, Executive Director at Repsol Química.

## About Repsol

Repsol is a global multi-energy company that is leading the energy transition with its ambition of achieving zero net emissions by 2050. Present throughout the energy value chain, the company employs 24,000 people worldwide and distributes its products in nearly 100 countries. Its customer-focused product and services portfolio meets all consumer needs of around 24 million customers, whether at home or on the move. Repsol is also a major player in the power and gas market in Spain with 1,2 million customers and a total low emissions generation capacity of 3.300 MW.

To achieve zero net emissions by 2050, Repsol is deploying an integrated model of decarbonization technologies based on enhanced efficiency, increased low-emissions power generation capacity, production of low-carbon fuels, development of new customer solutions, the circular economy, and by driving breakthrough projects to reduce the industry's carbon footprint.

Repsol has one of Europe's most efficient refining systems and has three large petrochemical facilities where differentiated products with high added value are developed. The company is transforming its seven industrial complexes in Spain, Portugal, and Peru into multi-energy hubs through state-of-the-art projects that will reduce their carbon footprint.

In Chemicals, Repsol is committed to greater efficiency in industrial processes geared towards the circular economy, with the goal of recycling the equivalent of 20% of its polyolefin production by 2030. Repsol has a [circular economy strategy since 2016](#) that it has applied throughout its value chain, from obtaining raw materials to commercializing products and services.

Its products are used to make everyday objects that improve people's quality of life, well-being, and safety. Its wide variety of chemical products range from base petrochemicals to derivatives and include a wide range of polyolefins, all 100% recyclable.

## About ECI Group

ECI Group comprises Engineers and Constructors International, Inc., headquartered in Baton Rouge, Louisiana, and Simon Carves Engineering Ltd., headquartered in Manchester, UK, as well as the International Technical Excellence Center (ITEC). With its history stretching back over 143 years to the formation of Simon Carves in 1878, ECI Group today provides specialist services and technology for the full lifecycle of polyolefins plants.

To learn more about ECI Group, visit [www.ecigrouponline.com](http://www.ecigrouponline.com).





Supplementary graphic material and photographs to illustrate the information in the press release:

