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**PRESS RELEASE**

**Axens and ZPJE established Nectis: a joint-venture dedicated to the promotion and sale of Spiral Tubes Heat Exchangers**

Rueil-Malmaison, 30 October,

Energy efficiency improvement is a significant contributor to the achievement of the Paris Agreement objectives. Nectis aims at contributing to this effort in promoting the application of Spiral Tube Heat Exchangers (STHE) to unlock heat integration opportunities in demanding process services. Zhenhai Petrochemical Jianan Engineering Co. Ltd (ZPJE) - a reputed designer and manufacturer of STHE with more than 1600 equipment sold, and Axens, a key player in energy transition, and a well-established technology, products, equipment and services provider with an extensive process technology knowledge, join forces in establishing Nectis, a France-based company targeting the promotion and sales of STHE to the process industry outside of China.

Axens and ZPJE have started their cooperation in 2015 in the frame of worldscale Crude to Chemicals projects in China. The excellent reliability and performance observed in industrial units inside and outside of China has led them to the establishment of Nectis, aiming at the promotion and sale of STHE outside of China, and supporting the process industry at large in its effort to reduce its carbon footprint.

ZPJE has developed a unique expertise in applying Spiral Tube Heat Exchangers (STHE) to refining, petrochemicals, gas processing industries. This technology has been chosen by more than 300 customers cumulating the equivalent of 7050 years of efficient and reliable operation. Thanks to patented design and manufacturing techniques, ZPJE technology features a unique track record of thermal efficiency and operational robustness. STHE proven ability to handle heavy or fouling refinery streams opens up a wide array of energy efficiency opportunities for new process units as well as existing assets.

**Zhang Xian'an, VP at ZPJE, stated** "ZPJE STHE technology has proven its efficiency and robustness in our home market in the last 20 years. We are thrilled to partner with Axens and believe Nectis will contribute to offer customers innovative solutions and easy services. ZPJE will support Nectis to make its efficient, reliable and unique technology available around the world."

**Jacques Rault, EVP Technology & Technical Support at Axens, said** "We are proud to be ZPJE partner in Nectis. We believe that through this vehicle and thanks to our extensive process knowledge, Axens can

contribute to the adoption of STHE by the industry and support its efforts to reduce their carbon footprint thanks to energy efficiency improvement”

#### **About ZPJE**

Zhenhai Petrochemical Jianan Engineering Co., Ltd (ZPJE: [www.sthezpje.com](http://www.sthezpje.com)) is a joint-stock company established in the Ningbo city on the Chinese east coast. The company has more than 700 employees specialised in spiral tube heat exchangers (STHE) manufacturing, thermal and hydraulic calculation, R&D, and project management. For more than 30 years, ZPJE has developed a unique knowledge of heat exchange calculation, hydraulic simulation, and mechanical modelling of spiral tubes design to enable this technology to be used in refinery, petrochemical, and oil & gas applications. ZPJE was able to develop its technology based on an extensive expertise of the various processes and was driven by the feedback and needs of its customers, It can accommodate the various demanding process conditions combining very high thermal and hydraulic performance, with the robustness needed in such demanding industries.

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#### **About Axens**

Axens group ([www.axens.net](http://www.axens.net)) provides a complete range of solutions for the conversion of oil and biomass to cleaner fuels, the production and purification of major petrochemical intermediates, the chemical recycling of plastics, all natural gas treatment and conversion options along with water treatment and carbon capture. 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 life cycle. 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.

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