



press release

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SUEZ WINS THREE INDUSTRIAL SERVICE CONTRACTS IN CHINA IN THE OIL&GAS AND PETROCHEMICALS SECTORS

SUEZ is quickly expanding its business in the industrial market, one of its four strategic growth drivers. The Group has just won three new industrial service contracts in China with major players in the Oil&Gas and Petrochemicals sectors for a total turnover of 19 million euros. The contracts signed are two engineering and equipment procurement services contracts signed with BASF, the world's leading chemical company, in Shanghai Chemical Industry Park (SCIP), and the Chinese petrochemical group Hengli Petrochemical's in Dalian, Liaoning Province. The third contract is a 'Zero Liquid Discharge (ZLD) equipment supply & site technical services contract for the Chinese petrochemical group Zhong Tian He Chuang Energy¹.'

SUEZ SUPPORTS ITS INDUSTRIAL CLIENTS BY IMPROVING THEIR ENVIRONMENTAL PERFORMANCES THROUGH INNOVATIVE AND HIGH-QUALITY SOLUTIONS

For BASF, SUEZ will provide engineering and equipment procurement services in SCIP, the largest petrochemical complex in Asia. In China, SUEZ is currently providing water supply and wastewater treatment services to BASF's plants in SCIP and Chongqing Changshou Chemical Park. The contract signed this time is the first of such kind for engineering and equipment procurement between SUEZ and BASF. In addition, this contract reinforces SUEZ's footprint in SCIP where it delivers industrial water treatment services and leading-edge technologies to manage industrial effluents of SCIP since 2002 and secures the management of all the site's hazardous waste since 2007.

The Zero Liquid Discharge (ZLD) Equipment Supply & Site Technical Services Contract signed with our partner Wotter² for Zhong Tian He Chuang Energy, is SUEZ's first S.M.A.R.T Z™ Process Zero Liquid Discharge (ZLD) project in China. The contract includes the design, equipment supplying, site services and performance guaranteeing of over 600 m³/day crystallisation unit to equip the reuse wastewater treatment plant of the world's largest coal to olefins project. in Ordos, North of China, Inner Mongolia. This contract follows SUEZ's equity shares acquisition in Evatherm, a Swiss engineering company and worldwide expert in evaporation and crystallization technologies³. Reducing water consumption, recovering value from wastewater and managing

¹ Zhong Tian He Chuang Energy Co.,Ltd is a joint venture between China's largest petrochemical company-Sinopec, and China's largest coal company-China Coal Energy Group Co.,Ltd

² Beijing Wotter Water Technology co. Ltd, a subsidiary of the Group CAMC Engineering Co., Ltd

³ Evaporation and crystallization is a process of solid crystal formation through the slow precipitation of a solution. The Evaporation and Crystallization technologies are key for environmental applications to removing salt from effluents and result in solutions which achieve water recycling rates well above 90%.



environmental impacts are growing issues for industry, to counter balance the scarcity of resources while protecting the environment. The need for state-of-the art technologies ensuring recycling and by-product recovery like ZLD is ever more critical. The first ZLD contract of SUEZ in China, it opens new development opportunities in the Chinese industrial market.

The contract for Dalian Hengli Petrochemical is another success for SUEZ in China's petrochemical sector. The contract will serve a newly-built oil refinery in Dalian, with a capacity of 400,000 barrels per day, owned by Hengli Group, one of the Top 10 Chinese private companies, and a coal to hydrogen unit, which serves as an auxiliary facility for the refinery. The contract includes five separate treatment lines for a wastewater treatment plant, which will include tertiary treatment, and reverse osmosis brine treatment, as well as SUEZ renowned degremont® treatment technologies like the Densadeg™⁴ which will be installed on the coal-to-hydrogen unit to guarantee high quality treated water for the wastewater treatment plant; increasing the wastewater reuse rate and improving the stability of the coal to hydrogen unit.

"These new contracts follow the one recently announced to treat the effluents from CAMIP industrial park in Jiangsu Province and confirms SUEZ successful development in Industrial Services in China where it already delivers its expertise in the management of environmental services to 10 industrial parks" stated Marie-Ange Debon, Senior Executive Vice President in charge of the International Division of SUEZ.

SUEZ

We are at the dawn of the resource revolution. Faced with an increasing world population, growing urban development and rarefied resources, the security, optimization and recovery of resources are indispensable to our future. SUEZ (Paris: SEV, Brussels: SEVB) supplies 92 million people with drinking water and 65 million with sanitation services, collects waste from almost 50 million people, recovers 14 million tonnes of waste per year and generates 5,138 GWh of renewable energy. Employing 80,990 people, SUEZ is active on five continents and a key player in the circular economy for sustainable resource management. SUEZ generated total revenues of €15.1 billion in 2015.

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⁴ Physico-chemical treatment of phosphorus and suspended solids