

Press release

Plainfield, IL, USA - March 12, 2020

Water Technologies

Veolia to expand crystallization capacity at a leading potash fertilizer plant in Jordan



Veolia Water Technologies will provide a processing plant integrating HPD® crystallization systems designed to extract high-quality potash fertilizer from the brines of the Dead Sea.

Population growth, rising incomes and the need for increased fresh food production are expanding the frontiers to grow crops into increasingly arid areas around the world. This force is driving the demand for water-soluble fertilizer products for use in horticulture with precision irrigation, a modern technique also known as fertigation which delivers water and nutrients in exact quantities conserving resources and maximizing yields.

World-leading potash producers are well-positioned to grow the exports of these specialty products into regional and international markets such as India and China.

To meet this increased demand, a major producer of potash in the Middle East is slated to raise production to almost 1.5 million tons per year of potash extracted from carnallite, a mixture of magnesium chloride and potassium chloride pumped from the Dead Sea and evaporated in solar ponds before undertaking a refining process.

As part of this contract to modernize a refinery on the southern shores of the Dead Sea, Veolia will replace existing crystallizers with new HPD® crystallization technologies to better process the carnallite feedstock and extract water-soluble potash fertilizer. To make the plant more efficient and energy-saving, Veolia's solution includes upgraded barometric condensers designed to handle the vapors generated in the new crystallizers. Chief among the

criteria to award this contract to Veolia was its deep process design expertise and its ability to integrate the proposed solution into the existing infrastructure and thermal arrangement.

“We are delighted to support world-class producers in the extraction of essential potash crop nutrients for boosting agricultural productivity in Asia, Africa, and the Middle East. This is a testament to the value of the crystallization expertise we bring to the fertilizer industry” said Jim Brown, CEO of Veolia Water Technologies Americas.

With its HPD® evaporation and crystallization technologies, Veolia helps fertilizer producers to optimize their operations and the value of its products with a focus on enhancing environmental sustainability as well as energy and resource efficiencies.

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Veolia group is the global leader in optimized resource management. With over 171,000 employees worldwide, the Group designs and provides water, waste, and energy management solutions which contribute to the sustainable development of communities and industries. Through its three complementary business activities, Veolia helps to develop access to resources, preserve available resources, and to replenish them.

In 2018, the Veolia group supplied 95 million people with drinking water and 63 million people with wastewater service, produced nearly 56 million megawatt-hours of energy and converted 49 million metric tons of waste into new materials and energy. Veolia Environnement (*listed on Paris Euronext: VIE*) recorded consolidated revenue of USD 30.6 billion in 2018. www.veolia.com

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