

Air Liquide starts operating in Kazakhstan

On September 1, 2018, Air Liquide starts supplying hydrogen in Kazakhstan through the acquisition of hydrogen and purification units with a total capacity of up to 30.000 Nm³/h. This investment of 12 million euros by Air Liquide Munay Tech Gases (ALMTG) marks the first step in the cooperation between Air Liquide and KazMunayGaz (KMG). The hydrogen and steam produced will be delivered to the Pavlodar Oil and Chemistry Refinery (POCR) in the context of a long term Gas Supply Agreement.

Hydrogen is used for the process of hydrotreatment of diesel and gasoline to reduce sulfur content, thus **contributing to cleaner transportation fuels**. Air Liquide will bring its technology know-how and operational expertise **to reduce the energy consumption and increase operational reliability and flexibility of hydrogen facilities**, thus contributing to improving efficiency and competitiveness of the Pavlodar refinery.

ALMTG is a joint-venture between **Air Liquide and KazMunayGaz NC (KMG)**, the Kazakhstan National Oil & Gas company with respective 75% and 25% ownership. The joint venture partners plan to pursue further opportunities in hydrogen and nitrogen supply to KMG's other refineries.

Olivier Randet, Vice-President, Cluster Eastern Europe, said: ***"We are delighted to work with KazMunayGaz and to start operating in Kazakhstan. We are committed to provide our long-time expertise to improve efficiency and reliability for the benefit of our customer. We are looking forward to continuing supporting industrial development in Kazakhstan."***

The Eastern Europe Cluster

Air Liquide's Eastern Europe Cluster is present in 9 countries: Russia, Turkey, Poland, Czech Republic, Slovakia, Greece, Bulgaria, Romania and now Kazakhstan. Around 1,400 employees supply products and services to customers .

The Large Industries business line of Air Liquide

Offers gas and energy solutions that improve process efficiency and help achieve greater respect for the environment, mainly in the refining and natural gas, chemicals, metals and energy markets. In 2017, revenues were €5,336 million.

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The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 65,000 employees and serves more than 3.5 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

Air Liquide's ambition is to lead its industry, deliver long term performance and contribute to sustainability. The company's customer-centric transformation strategy aims at profitable growth over the long term. It relies on operational excellence, selective investments, open innovation and a network organization implemented by the Group worldwide. Through the commitment and inventiveness of its people, Air Liquide leverages energy and environment transition, changes in healthcare and digitization, and delivers greater value to all its stakeholders.

Air Liquide's revenue amounted to 20.3 billion euros in 2017 and its solutions that protect life and the environment represented more than 40% of sales. Air Liquide is listed on the Euronext Paris stock exchange (compartment A) and belongs to the CAC 40, EURO STOXX 50 and FTSE4Good indexes.