

Press release
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AIR PRODUCTS and ENGIE launch innovative partnership Blockchain technology to certify the traceability of green electricity

Paris - April 10th, 2018 - ENGIE and AIR PRODUCTS have signed a contract that will allow AIR PRODUCTS to maximise, trace and certify the green energy used in its manufacturing process, using blockchain technology.

The AIR PRODUCTS & ENGIE contract represents a double revolution in customer-supplier relationships, giving AIR PRODUCTS access to its own daily green certification system, but also ensuring it can associate relevant certification to its customers.

- AIR PRODUCTS will be able to identify green energy generation assets for an industrial gas production facility in France, based on their availability. Using blockchain technology, ENGIE will offer AIR PRODUCTS tamper-proof traceability of the origin of its green energy in near-real time.
- ENGIE and AIR PRODUCTS will develop an innovative offering enabling AIR PRODUCTS to certify the actual source of green energy used in the day-to-day manufacture of its products to its customers.

This step-out green electricity supply contract has established AIR PRODUCTS and ENGIE as pioneers in the certification of “green” industrial products in France – all thanks to the traceability offered by the blockchain protocol.

In practice, ENGIE will link the production of a wind farm in the Aveyron area and two hydroelectric plants of SHEM¹ (in Eget, Hautes-Pyrénées and Marèges, Corrèze) to the AIR PRODUCTS’ point of consumption at the Saint-Quentin Fallavier, Isère plant. Blockchain technology will ensure day-to-day tamper-proof energy certification as well as information on how the amount of renewable energy injected into the grid correlates with electricity consumption at the plant².

ENGIE will equip AIR PRODUCTS with a private web interface allowing it to directly view the production of identified renewable assets and access its own certificates registered in the blockchain.

AIR PRODUCTS can then associate its green energy certificates to the products delivered to its customers. Its customers can then use this data for their own Corporate Social Responsibility review.

"Certification by blockchain technology gives ENGIE the opportunity to transform its customer-supplier relationship. We not only provide green electricity, we support our customers in their energy transition" said Edouard Neviaski, CEO of ENGIE's Global Energy Management Business Unit, which manages the Group's activities on energy markets. *"With this type of contract, our*

¹ Société Hydro-Electrique du Midi, ENGIE's subsidiary company, 3rd French hydroelectric producer

² The contract also relies on guarantees of origin from the identified production sites so the electricity can be described as green regarding the European regulations.

ambition is two-fold: to improve the monitoring of green energy consumption by our customers and to enable our customers to be involved in their traceability to the final consumer”.

" With this traceable green energy system, we can better support them in their sustainable development approach, just as we're already doing with our logistics strategy, aiming to be more respectful of the environment.” concludes Kurt Lefevere, Vice President Northern Continent Industrial Gases Europe at AIR PRODUCTS.

About AIR PRODUCTS

AIR PRODUCTS (NYSE:APD) is a world-leading Industrial Gases company in operation for over 75 years. The Company's core industrial gases business provides atmospheric and process gases and related equipment to manufacturing markets, including refining and petrochemical, metals, electronics, and food and beverage. AIR PRODUCTS is also the world's leading supplier of liquefied natural gas process technology and equipment. The Company had fiscal 2017 sales of \$8.2 billion from continuing operations in 50 countries and has a current market capitalization of about \$35 billion. Approximately 15,000 passionate, talented and committed employees from a diversity of backgrounds are driven by AIR PRODUCTS' higher purpose to create innovative solutions that benefit the environment, enhance sustainability and address the challenges facing customers, communities and the world.

For more information, visit www.airproducts.fr or www.airproducts.fr/developpement

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About ENGIE

We are a global energy and services group, focused on three core activities: low-carbon power generation, mainly based on natural gas and renewable energy, global networks and customer solutions. Driven by our ambition to contribute to a harmonious progress, we take up major global challenges such as the fight against global warming, access to energy to all, or mobility, and offer our residential customers, businesses and communities energy production solutions and services that reconcile individual and collective interests.

Our integrated - low-carbon, high-performing and sustainable - offers are based on digital technologies. Beyond energy, they facilitate the development of new uses and promote new ways of living and working.

Our ambition is conveyed by each of our 150,000 employees in 70 countries. Together with our customers and partners, they form a community of imaginative builders who invent and build today solutions for tomorrow.

2017 turnover: 65 billion Euros. Listed in Paris and Brussels (ENGI), the Group is represented in the main financial (CAC 40, BEL 20, Euro STOXX 50, STOXX Europe 600, MSCI Europe, Euronext 100, FTSE Eurotop 100, Euro STOXX Utilities, STOXX Europe 600 Utilities) and extra-financial indices (DJSI World, DJSI Europe and Euronext Vigeo Eiris - World 120, Eurozone 120, Europe 120, France 20, CAC 40 Governance). To learn more : www.engie.com

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