

EDF & VEOLIA ANNOUNCE THE CREATION OF GRAPHITECH

On 10 December 2019, EDF and VEOLIA, through their respective subsidiaries Cyclife Holding and Asteralis, have announced the creation of a joint entity – Graphitech – in response to the challenges of decommissioning nuclear reactors that incorporate graphite technology.



The dismantling of the graphite reactors is complex because of their design (stacking of graphite layers inside the reactor) and the volume of materials to be evacuated. Globally, only two reactors of small power graphite technology have been dismantled to date.

Graphitech will be responsible for the technological development and engineering studies required in preparation for decommissioning nuclear reactors that use graphite technology, around 60 such reactors in the world, Graphitech will thus be ready to meet the needs of France, the United Kingdom, Spain, Italy, Lithuania and Japan.

Combining EDF's nuclear industry expertise and decommissioning engineering know-how with Veolia's nuclear-environment robotics capability, to enable the design of specialized machinery and long-distance intervention platforms for decommissioning, Graphitech will use its expertise to:

- develop remote-operation tools to break up complex, large-scale concrete and metal structures, and tools to extract activated graphite bricks and piles;
- design systems and articulated arms to enable deployment of these tools.

Graphitech's first objective will be to provide EDF with an optimized scenario for decommissioning the Chinon A2 reactor in 2028 and to offer a testing program to evaluate the technological solutions needed to complete the operation.

This program will begin in 2022 with a development and qualification phase using full-scale models to prepare the remote-operation tools to be used in decommissioning the Chinon reactor. The feedback from this pioneering operation will then be used with other reactors in France and around the world.

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About EDF

A key player in energy transition, the EDF Group is an integrated electricity company, active in all areas of the business: generation, transmission, distribution, energy supply and trading, energy services. A global leader in low-carbon energies, the Group has developed a diversified generation mix based on nuclear power, hydropower, new renewable energies and thermal energy. The Group is involved in supplying energy and services to approximately 39.8 million customers⁽¹⁾, 29.7million of which are in France. It generated consolidated sales of €69 billion in 2018. EDF is listed on the Paris Stock Exchange.

(1)The customers were counted at the end of 2018 per delivery site; a customer can have two delivery points: one for electricity and another for gas

About Veolia

Veolia group is the global leader in optimized resource management. With over 171,000 employees across five continents, the Group designs and provides water, waste and energy management solutions that contribute to the sustainable development of communities and industries. Through its three complementary business activities, Veolia helps to develop access to resources, and to preserve and replenish available resources. In 2018, Veolia group supplied 95 million people with drinking water and 63 million people with wastewater services, produced 56 million megawatt hours of energy and converted 49 million metric tons of waste into new materials and energy. Veolia Environnement (Paris Euronext: VIE) recorded consolidated revenue of €25.91 billion in 2018. www.veolia.com

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