

## PRESS NOTE

### **WEBUILD: PAD FOUNDATION OF ROGUN DAM IN TAJIKISTAN COMPLETED, AMONG THE MOST COMPLEX ENGINEERING PHASES APPLIED TO LARGE DAMS**

#### **IT WILL BE THE WORLD'S TALLEST DAM, HELPING DOUBLE TAJIKISTAN'S POWER GENERATION CAPACITY**

*Milan, December 22, 2023* – One of the most challenging engineering phases applied to large dams has been successfully completed: at the Webuild construction sites for the Rogun Dam in Tajikistan, which will be the world's tallest at 335 metres, the pad foundation on which the dam's core will rest has been completed. It has been built in a context with various technical, geological, climatic, and logistical complexities, representing an innovative solution at a global level. The plant will allow Tajikistan to double its electricity generation capacity. It has already been partially commissioned, with two turbines being activated between 2018 and 2019, to contribute to the country's economic development as early as the construction stages.

The new dam stands on the bed of the Vakhsh River, about 90 kilometres from the capital Dushanbe. Works on Lot 2 of the Rogun Hydropower Plant are being carried out by Webuild on behalf of OJSC Rogun HPP and have now reached 35% of the total. The dam is made of rockfill with a clay material core, the so-called Concrete Pad in RCC. It will have a total volume of about 80 million cubic metres, with a crest length of 800 metres. When completed, the plant will have a total installed capacity of 3,600MW, provided by 6 Francis Turbines of 600MW each.

The completion of the dam's pad foundation allows construction of the dam's actual core to begin. The RCC Pad has significant dimensions: it is divided into 8 blocks, each 20 to 25 metres long, with a total length of 180 metres, is 120 metres wide, from bank to bank, developing in height to a maximum of 22 metres. About 290,000 cubic metres of rolled, compacted concrete (RCC) was used for its construction: equivalent to slightly less than the volume of 120 Olympic-size swimming pools.

Many innovative solutions have been applied as part of this project. In addition to the solutions adopted for the realization of the RCC Pad, the "Flyng Belt System," a material transport system that will make it possible to streamline the next processing stages, ensuring rapid and sustainable transport of the materials that will be used for the construction of the dam, was also developed. The Flyng Belt System is positioned on the left bank of the dam's downstream area, in the form of a suspended, high-capacity conveyor belt attached to 65 mm diameter steel ropes and is anchored to two loading and unloading stations located at its ends. The system will extend for a total 650 metres, offering a nominal transport capacity of 3,000 tons per hour. It will fit into a system of conveyor belts for transporting materials to the dam that will measure in total about 10 kilometres.

Rogun confirms Webuild Group's world-scale leadership in the water sector, where it is active in the entire water cycle, supplying water for drinking and irrigation purposes to wastewater treatment. With its subsidiary Fisia Italmipianti, the Group is a world leader in sustainable design and construction of water treatment and desalination plants. Currently, it is building ongoing projects such as the Grand Ethiopian Renaissance Dam, the largest dam in Africa which it is building on the Blue Nile in Ethiopia, and Snowy 2.0, the largest "environmentally-friendly" energy generation project underway in Australia. Among the completed works, there's: the Lake Mead intake hydraulic tunnels (Intake 3), built to quench the thirst of the city of Las Vegas and the surrounding areas through an elaborate system that supplies water from Lake Mead.

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*Webuild is a global leader in the design and construction of large, complex projects in the sectors of sustainable mobility (rail, metro, bridges, roads, ports), hydropower (dams, power plants), water (treatment and desalination plants, wastewater management, irrigation dams) and green buildings (civil and industrial buildings, airports, stadiums, hospitals). It supports clients in achieving the Sustainable Development Goals (SDGs) established by the United Nations. The recognised leader in infrastructure for the water sector, it operates in 50 countries. It has 85,000 direct and indirect employees from 100 nationalities, and a supply chain of more than 17,500 businesses. In its 117 years of applied engineering on more than 3,200 projects, the Group has built 14,118 kilometres of rail and metro lines, 82,509 kilometres of roads and highways, 1,018 kilometres of bridges and viaducts, 3,396 kilometres of tunnels, and 313 dams and hydropower plants. Projects include the Genoa San Giorgio Bridge, the second Panama Canal, the Lake Mead Third Intake hydraulic project near Las Vegas in the United States, the Airport Line in Perth, Australia and the Stavros Niarchos Foundation Cultural Center in Athens. Projects under construction include the Brenner Base Tunnel, Line 4 of the Milan metro system, the Terzo Valico dei Giovi-Nodo di Genova in Italy, and the North East Link of Melbourne in Australia. . As of June 30, 2023, the Group had total orders worth €61 billion, with more than 90% of the Group's construction backlog related to projects linked to the advancement of the United Nations 2030 Sustainable Development Goals (SDGs). Webuild, subject to the direction and coordination of Salini Costruttori S.p.A., is headquartered in Italy and is listed on the Milan stock exchange (WBD; WBD.MI; WBD:IM). Since 2021, it is member of the MIB ESG, the index of Italian companies with the best ESG practices.*

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