

News Release

Kanadevia
Technology for people and planet

Kanadevia Corporation

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Received an Order for Surface Water Intake Facilities for the NEXUS Sakuma Project

~ Contributing to Improvement of the Downstream Environment of Sakuma Dam and the Utilization of Renewable Energy ~

Kanadevia Corporation has been awarded a contract by Electric Power Development Co., Ltd. (Head Office: Chuo-ku, Tokyo; President and CEO: Hitoshi Kanno; hereinafter “J-POWER”) for modification work on two intake towers for the NEXUS Sakuma Project. The project is being promoted at the Sakuma Power Station (Hamamatsu City, Shizuoka Prefecture) and Sakuma Dam (Hamamatsu City, Shizuoka Prefecture, and Toyone Village, Kita-Shitara District, Aichi Prefecture) operated by J-POWER.

The NEXUS Sakuma Project is J-POWER’s initiative to reconstruct the Sakuma Power Station and Sakuma Dam—both of which have been in operation since 1956—into a “regional co-creation hub” that creates value together with local communities, while further expanding renewable energy. By maximizing the CO₂-free environmental advantages of hydropower generation, the project aims to strengthen collaboration with local communities and promote the creation of an inclusive and supportive working environment.

The Sakuma Power Station is one of the largest hydropower plants in Japan, boasting a maximum output of 350,000 kW and utilizing a 133-meter head of the Tenryu River water stored in Sakuma Dam. As nearly 70 years have passed since the start of operation in April 1956 and major facilities have aged, J-POWER has decided to undertake large-scale equipment renewal work. As part of this initiative, we will be responsible for the modification of the intake tower facilities.

At the Sakuma Power Station, two turbine-generator units are connected to each of the two waterways extending from the intake towers at Sakuma Dam. Under the NEXUS Sakuma Project, each waterway will be dewatered in sequence, enabling the power generation facilities to be renewed and modified in two phases, one system at a time. We will modify the existing intake towers to allow surface water intake, drawing clarified surface water accumulated at the top of the reservoir. Through this work, we will contribute to improving the water quality of downstream rivers.

The existing intake towers consist of upper and lower intake openings. By installing the new intake equipment at the lower intake opening, the system will be modified to prevent

the intake of bottom-layer water and to draw only clarified surface water from the upper intake opening. In addition, the system is designed to allow water intake from the lower intake equipment when the reservoir water level declines.

Through this order, we will be responsible for the entire process, including procurement, manufacturing, transportation, installation, testing, and inspection. As this work requires long-duration operations at depths exceeding 50 meters when installing the intake equipment at the lower intake opening, construction will be carried out using saturation diving. Saturation diving is a specialized diving technique developed to enable highly trained divers to work safely and for extended periods at great depths.

Leveraging the technologies and experience cultivated over many years, our group will continue its efforts to improve the environment and promote renewable energy. Through initiatives such as this project, we will provide solutions that support sustainable community development and contribute to the advancement of social infrastructure.

Project Overview

- **Client:** Electric Power Development Co., Ltd. (J-POWER)
- **Scope of Work:** Procurement, manufacturing, transportation, installation, testing, and inspection of surface water intake facilities (bottom intake gates)
- **Construction Site:** Sakuma, Sakuma Town, Tenryu Ward, Hamamatsu City, Shizuoka Prefecture
- **Scheduled Completion:**
 - Unit 1 System: 2031 (planned)
 - Unit 2 System: 2035 (planned)