



Japan Port Consultants

pan, we believe that any infrastructure project must provide safety and security, while sustainably supporting the local economy in the long term. We call it 'smart infrastructure'.

"For any construction project to achieve longevity, quality must be prioritized. In our industry, it is unfair to regard the immediate cost over the long-term return. If one desires to have long-living infrastructure, the price cannot be discounted. At Pacific Consultants we believe that all construction projects should be of high quality and pricing should reflect the right cost for the right value."

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Japan Port Consultants, Ltd. also has a history that dates back to Japan's post-World War II redevelopment. The company was behind the design and construction of the internationally acclaimed and award-winning Kansai Airport in Osaka, which has been compared to engineering marvels such as the Panama Canal and Hoover Dam.



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"We had to develop Kansai airport 5 kilometers (3 miles) away from land. As the airport is literally in the ocean, the building conditions were extremely severe and difficult. Many American peers called the project 'fantastic, but crazy,'" recalls president, Tetsuo Omura.

"Kansai airport is built at a level where the depth of the sea reaches 30 meters while being far away from land. We are very proud of this project as it is the proof of the uniqueness of Japanese technology."

JPC has been involved in ODA port projects abroad. Moving forward, the company wants to draw on its 57-year track record of developing port and harbor facilities in Japan to provide high-quality consulting services for overseas private port projects.

"Japan is a small island nation with severe natural conditions, such as earthquake, tsunamis and difficult land on which to build. We have had no choice but to develop the necessary expertise to construct dense and highly technological projects. This know-how in density and in dealing with natural disasters is a strength we wish to bring to the world."

While water, ports and rail infrastructure is important for Asia's development, so too, of course, is electricity. Owing to its capability of material development, Sumitomo Electric has developed the world's best-in-class high-voltage, direct current (HVDC) cable and converter technology.

Last year a joint venture between Sumitomo and Siemens was awarded a contract in India to build a high-voltage direct current HVDC transmission system. This will be India's first HVDC link featuring

a state-of-the-art VSC technology transmission link and will support the Indian government's vision of "24/7 power for all".

"As our HVDC technology is characterized by low loss for long-distance power transmission, it will be utilized to connect regions and nations alike," says president, Osamu Inoue. "We have also achieved a world record for the most powerful HVDC XLPE cable systems."

On a continuous quest to find innovative solutions to the world's power demands, Sumitomo has gone on to develop high-temperature-resistant and eco-friendly DC-XLPE (cross-linked polyethylene) cables, which will meet the various transmission needs that are expected to increase in the future, particularly in Asia.

"Our DC-XLPE cable can be operated at a high temperature at 90°C (194°F), compared to the 70°C of our competitors. In warm areas such as Asia, this technology provides answers to climactic issues, reduces investment burden and enhances transmission capacity," explains Mr. Inoue.

"Throughout its history, Sumitomo Electric has always been a

pioneer in material development and power cable innovation. We were the first in the world to develop numerous era-defining power cables and we will further expand our business to meet the demand of modern societies."

Meeting the energy demands of a modern society is also the focus of Hitachi Zosen, a company which is among the world's leading experts in the generation of energy from waste.

"More than ten years ago, we started to enhance the productivity of our energy-from-waste plants and our power generator systems. And now, we have started to incorporate AI technology into our operations," says president, Takashi Tanisho, who believes that all Japan's construction firms must adopt new technologies such as AI and robotics moving forward.

"We must increase our productivity through the use of innovative technologies, such as robotics and AI," he says.

"We must place our efforts in developing the construction techniques of the future. Today is the time to create the growth foundations for tomorrow."



Bringing Japanese Expertise to The World

We are Pacific Consultants, the leading Japanese construction consulting firm, specialized in the development of safe, sustainable and prosperous infrastructure for the future of humanity. Throughout our 67 years of history, we have accumulated an acute knowledge in 29 construction related fields and we completed 4,400 projects per year in more than 100 regions internationally.

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