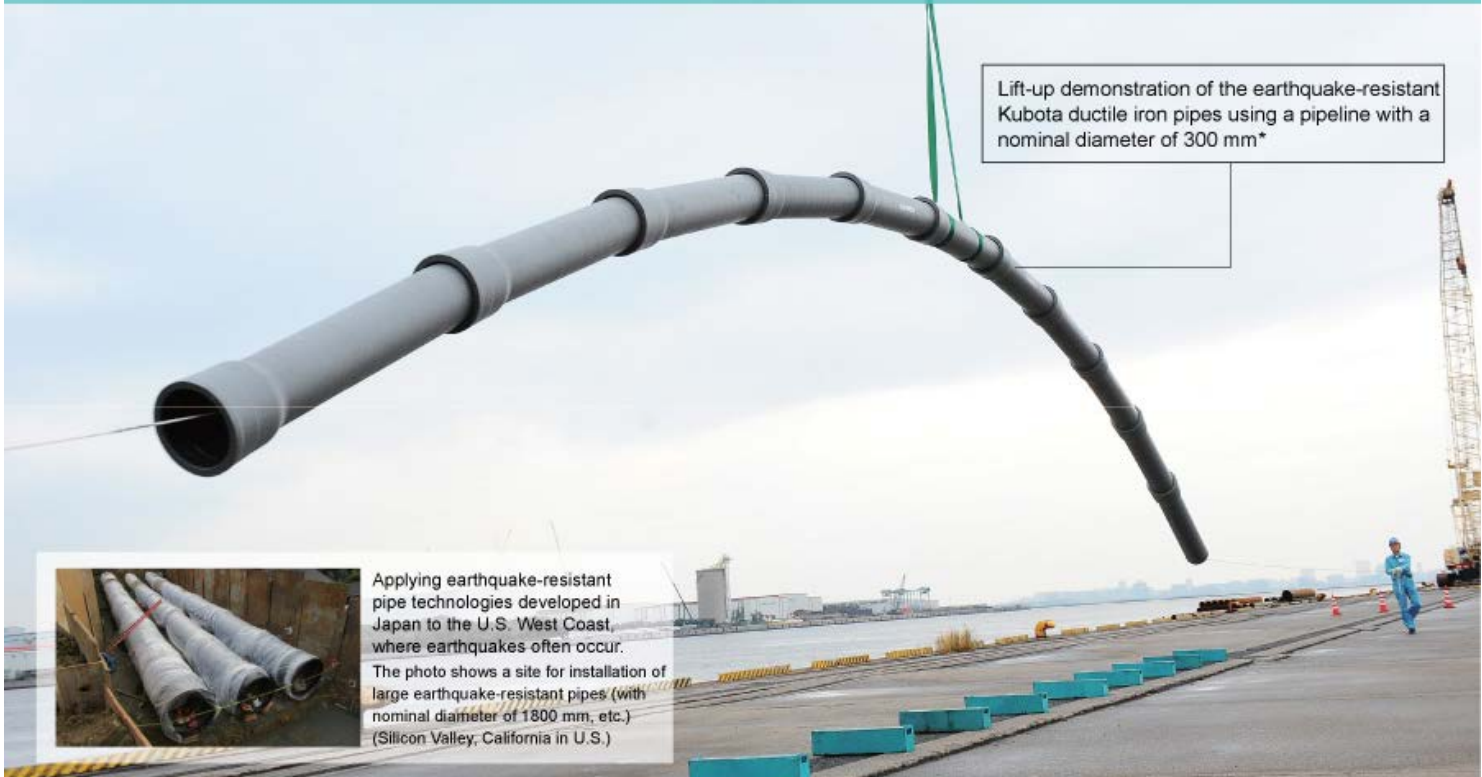


Toward Realization of "Global Major Brand Kubota" <Business in Japan>

Pipe Systems

Contributing to Building of Disaster-resistant Infrastructure



Lift-up demonstration of the earthquake-resistant Kubota ductile iron pipes using a pipeline with a nominal diameter of 300 mm*



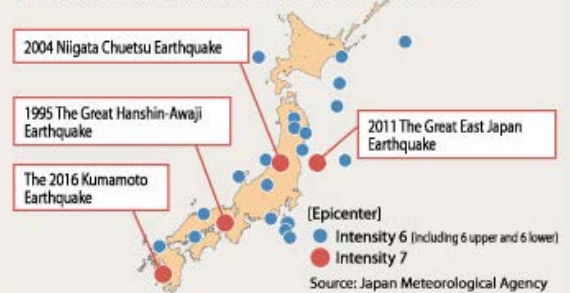
Applying earthquake-resistant pipe technologies developed in Japan to the U.S. West Coast, where earthquakes often occur. The photo shows a site for installation of large earthquake-resistant pipes (with nominal diameter of 1800 mm, etc.) (Silicon Valley, California in U.S.)

In Japan, at least one earthquake with intensity of 6 lower or above on the Japanese seismic intensity scale occurs each year on average. Water suppliers are required to update and make earthquake-resistant the water pipelines with limited budget and staff, while income from usage fees has been decreasing along with a decline in the population.

Background

In earthquake-prone Japan, building of tough water pipelines is necessary.

■ Earthquakes of intensity 6 or above that occurred after 1993



◆ Contributing to promotion of updated and earthquake-resistant water pipelines

The earthquake-resistant ductile iron pipes that Kubota has developed has suffered no damage in any huge earthquake in the past, demonstrating its high performance. In 2016, Kubota launched "NECS®," a new earthquake-resistant pipe model which has achieved lower cost and reduced weight through technology development, while maintaining a level of earthquake resistance equal to that of the existing pipes. Kubota will contribute to the improvement of the ratio of updated and earthquake-resistant water pipelines.



◆ Efficient water pipeline installation and construction management utilizing IoT

As the percentage of updated pipelines remains low due to shortage of budget and plumbers, further improvement of efficiency is required for installation work and construction management.

Site Innovation, one of the KSIS* systems, integrates new installation technologies using the simplified jointing mechanism with the installation management technologies using IoT. With this system, the pipe jointing status can be monitored easily, and the documents for installation management can be easily prepared by entering the pipe joint results in the tablet.

** KSIS: Kubota Smart Infrastructure Systems

Systems utilizing IoT technologies to offer comprehensive solutions covering from individual products and plant devices in the water and environment segment to systems and after sales services

Site innovation

