



JFE Engineering built Kumamoto city's New West Environmental Plant, which began operating in March. It is designed to serve as a temporary emergency evacuation shelter at the time of disasters. During the 2016 Kumamoto Earthquake, it served as an evacuation shelter for as many as 300 local residents.

JFE Engineering

Hisanori Kanou

President & CEO



As an engineering company, we aim to adapt in step with the changing times and serve as a trusted global leader in the provision of products and services based on cutting-edge technical capabilities

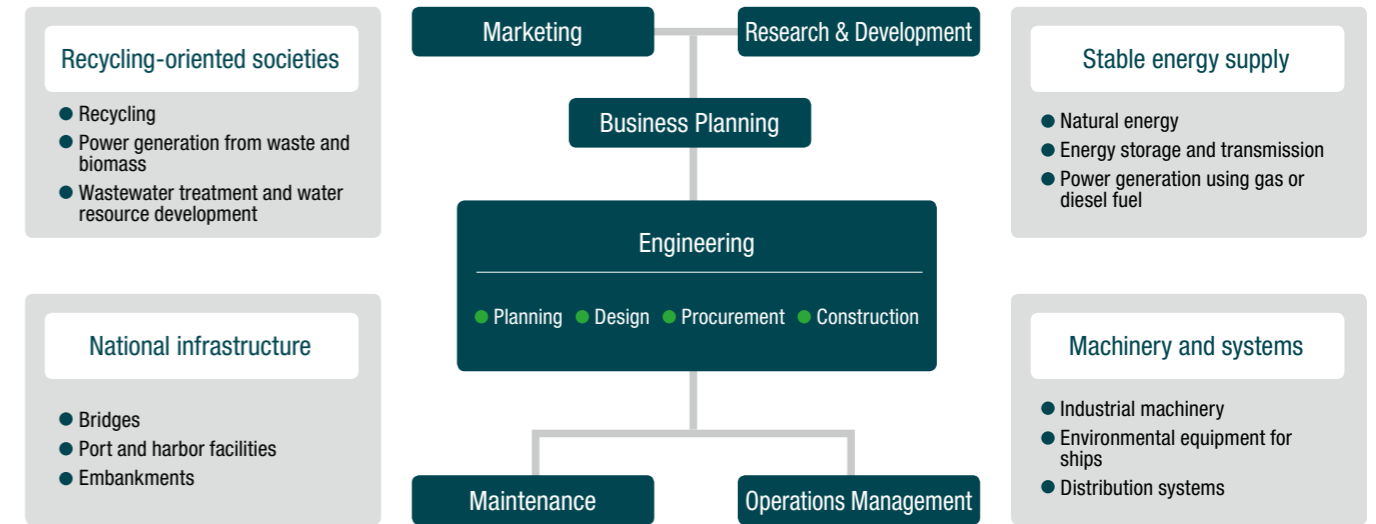
JFE Engineering carries out projects that underpin both industries and individuals. The company has an extensive record of accomplishment in developing and applying cutting-edge technologies for the production of energy using natural gas, waste or sewage sludge. In recent years, we have built numerous power plants that run on renewable energies, such as biomass, solar power or geothermal power. By leveraging our advanced technical capabilities to build infrastructure for transport, logistics, water supply and sewage systems, we continue to make significant contributions to global development. JFE Engineering is dedicated to providing society with optimal solutions as a company that "creates the foundations for life."

Integrated solutions for new facilities, existing operations and more

The role that engineering companies must play is changing. In addition to conventional construction work, JFE Engineering now engages in proposals for new facilities, construction and management of new facilities, and much more, often on an integrated basis. In the

urban and marine fields, for example, the company is involved in comprehensive projects based on schemes such as private finance initiatives (PFIs) or design/build/operate (DBO) projects.

Project scope

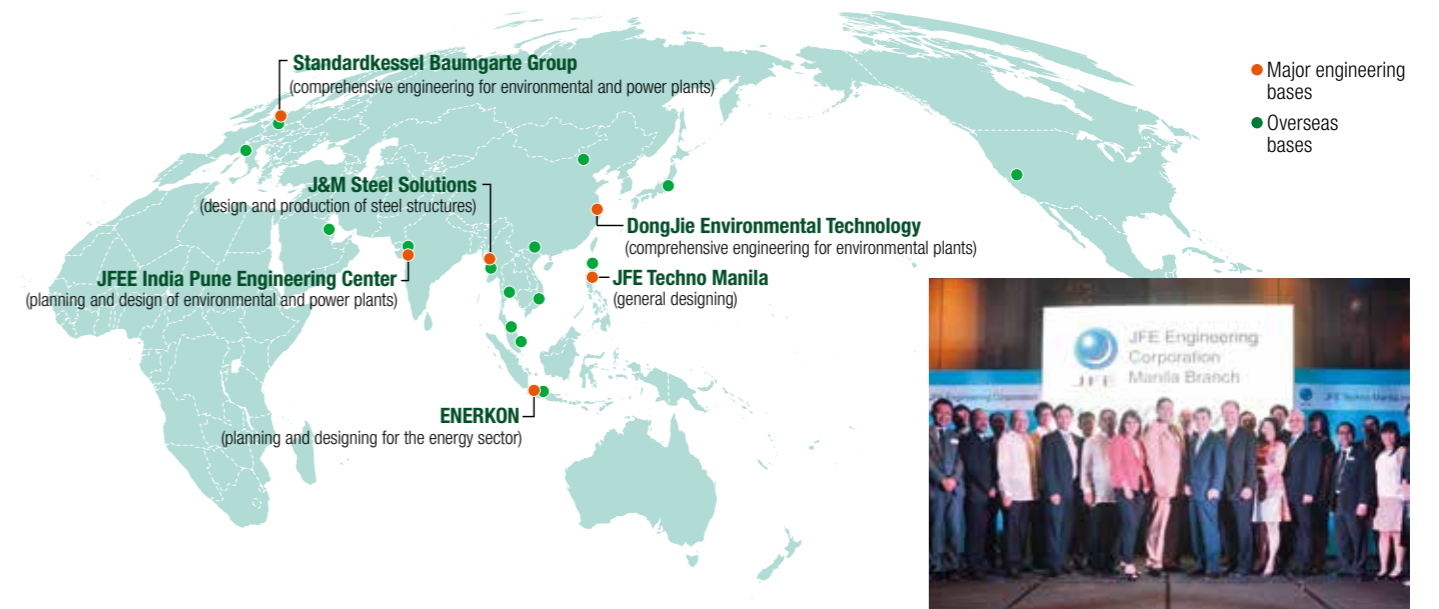


One-stop services for power generation

We are engaged in wide-ranging business involving biomass power, solar power and geothermal power, all of which will be used to generate new power under Japan's policy to deregulate electricity. We offer one-stop engineering services for everything from business planning to plant design/construction and operational management, which are presenting us with new opportunities to strengthen and grow our revenue base.

Global network for expanded engineering business overseas

JFE Engineering is increasingly leveraging its global network and the sales, procurement, design and manufacturing capabilities that we offer through our bases overseas. Headway is being made with efforts to expand overseas business primarily in the environmental and energy sectors, such as waste-disposal and water-treatment plants, and the infrastructure sector with projects involving bridges and other structures.



Commemorating the 20th anniversary of JFE Techno Manila and our Manila Branch



Fabrication of a large-scale pier jacket completed

We shipped a jacket for an LNG intake pier from our Tsu Works to Toyama. JFE Engineering is handling all construction of major facilities for an LNG base at Toyama Shinko, Japan. Completion is scheduled for 2018.

Renewable energy demonstrated in Kawasaki

We carried out the first demonstration in Japan to use electricity generated at a waste incineration plant to power electric garbage trucks. The aim was to demonstrate a practical system for collecting garbage with electric garbage trucks fitted with replaceable batteries.



Sludge conversion project planned in Yokohama

In this PFI project, sewage sludge will be converted to fuel and backfill soil. The practical and effective use of sludge generated through sewage treatment will help to reduce emissions of greenhouse gases by roughly 30% compared with conventional processes.



JFE BallastAce® training center opened

JFE BallastAce® is a ballast-water treatment system that has been ordered for more than 1,000 ships. While conducting trial runs of the system, the center is being used to train maintenance personnel who eventually will be part of a global service system.



Order received for a large-scale food complex in Kurashiki

JFE Engineering received an order from the JA Nishinihon Kumiai Shiryou Corporation, a subsidiary of the National Federation of Agricultural Cooperative Associations, and J-Oil Mills for a food complex to be built on Tamashima Harbor Island in Kurashiki, Japan. The company was involved in the project from the conceptual stage, and received high praise for its expert consultation.



Flyover bridge completed in Yangon, Myanmar

J&M Steel Solutions completed construction of a flyover bridge in the Kokkine area of Yangon, Myanmar. The company, a joint venture established by Myanmar's Ministry of Construction and JFE Engineering, has been operating a plant at full capacity since 2014 and doubled annual capacity to 20,000 tons as of April 2016.



Large waste-to-energy plant completed in UK

Baumgarte Boiler Systems, a German subsidiary of JFE Engineering, completed a waste-to-energy plant in Plymouth, UK. The plant uses about 800 tons of waste per day in a single furnace and achieves net energy efficiency of about 49% to supply electricity and heat to a naval base.



Order received for Myanmar's first waste incineration power plant

This waste incineration power plant project was the first to use the Joint Crediting Mechanism to reduce CO₂ emissions. Once completed in 2017, it will be operated by Yangon city to dispose of waste from around the country, as well as to alleviate power shortages.



Highlights 2015

(all locations in Japan unless stated otherwise)

- 2015
- April
 - JFE BallastAce® adopted on ships operating in North American sea channels
 - Received order for construction of gas pipeline between Soma and Iwanuma
- May
 - Received multiple orders for hybrid tide embankments in Miyako and Kesenuma
 - Agreed on business merger for production of tunnel shield machines
 - Completed solar power plants in Kushiro (21.7 MW) and Saijo (33.8 MW)
 - Began operating Arc Yokohama prefab station
- June
 - Seismic diagnostic system for pipelines received technical award from Japan Gas Association
- July
 - Water main, incorporating steel pipes designed for seismic-risk areas, deployed in Kobe
 - Hybrid tide embankments won Infrastructure Technology Development Award
- August
 - Received order for urban environmental plant in Iwakuni
 - Overpass completed in Insein, Myanmar
 - Received order to construct and operate a stoker furnace in Naraha to incinerate waste
- September
 - Atomization Mixing System (AtoMS) adopted for Ishikari LNG base
 - Received order for three container cranes at new terminal in Port of Tokyo
- October
 - Completed large waste-to-energy plant in UK
 - Developed inexpensive, compact BOG reliquefaction machine together with Toho Gas
 - Manila Branch opened
- November
 - JFE BallastAce® training center opened
 - Received order for Myanmar's first waste incineration power plant
 - Completed Nerima Waste Incineration Plant
 - Completed Keihin Biomass Power Plant for Showa Shell Sekiyu
 - Received order to construct three bridges and repair three other bridges in Bangladesh
 - Began operating binary power generation system for Tsuchiyu Hot Spring in Fukushima
- December
 - Received order for PET scan system for imaging tests at Kofu Neurosurgical Hospital
 - Received order for jacket pier for Myanmar's Thilawa Special Economic Zone
- 2016
- January
 - Surpassed 100,000 kW in retail power supply through deal with Ikea
- February
 - Received order for PFI project to use sewage sludge for power generation in Yokohama
 - Completed flyover bridge at Kokkine, Myanmar
 - Researched smart water meters with Kanagawa Prefectural Public Enterprises Agency
 - Began selling explosion-proof smartphone (LANEX®-Phone)
 - Began operating Cycle Tree parking facility underneath Dai Nagoya Building
- March
 - Completed and began operating New West Environment Plant in Kumamoto
 - Began demonstration of garbage trucks running on waste power in Kawasaki
 - Received order to construct large food complex in Kurashiki
 - Completed No. 2 plant for Higashi-Saitama Resources and Environment Association
 - Completed southern plant for refuse-based power generation in Fukuoka Prefecture
 - Completed Toyonaka Itami Cleanland
 - Began drinking water test demonstration with Yangon, Myanmar