Successfully Developing New Electrical Power

Investments are being made in Japan to increasingly secure power sources in conjunction with the start of a full buyback program for renewable energy. JFE Engineering has become actively involved in this field by offering its advanced technologies and related solutions to power suppliers. To date, the company has built an array of electrical power generation plants that use solar, geothermal or biomass power. In addition to working to attract more orders of this kind, the company is steadily working toward the development of related businesses that take advantage of the company’s extensive technologies and know-how in electrical power generation.

JFE Engineering is accelerating its overseas business with an emphasis on regions in which existing projects are concentrated. In the rapidly growing Asia-Pacific region countries, business in areas such as bridges and waste-to-energy plants is being pursued in response to growing concerns regarding the environmental impact of constructing roads and railway networks, as well as the urban concentration of populations.

World’s Leading Ballast Water Management System

Efforts to prevent damage to marine ecosystems when ballast water is discharged from ships are giving rise to the installation of on-board water treatment systems. Based on orders received, JFE Engineering’s Ballast Ace has become one of the world’s most popular systems thanks to its compact size and treatment reliability. The market is expected to expand in the foreseeable future, particularly if an envisioned international convention makes it mandatory for nearly 40,000 ships to be fitted with such systems.

Environmental Solutions Sector

- Oil & gas storage and transmission
- Gas and diesel engine power generation
- Effective use of renewable energy

Recycling

- Recycling
- Waste-to-energy and biomass power generation
- Creating water resources from wastewater

Energy Supply

- Marketing & Sales
  - Research & Development
  - Design
  - National Infrastructure
  - Machinery and Systems
  - Operation & Maintenance
  - Construction Management
  - Business Management

Marketing & Sales

Ballast Water Treatment System Sales

Top Suppliers (Cumulative)

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<tbody>
<tr>
<td>JFE Engineering</td>
<td>264 vessels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Company B</td>
<td>4 vessels</td>
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<tr>
<td>Company C</td>
<td>160 vessels</td>
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<tr>
<td>Company D</td>
<td>60 vessels</td>
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Sumiyuki Kishimoto
President & CEO
JFE Engineering Corporation
2012 Highlights

Irabu-Ohashi Bridge Joins Two Islands in Okinawa
JFE Engineering installed a bridge girder weighing 1,500 tons with high precision during construction of a large bridge that spans a major shipping lane to connect Miyako island and Irabu island.

Container Crane Project Completed at Tomakomai Port
An earthquake-resistant container crane was delivered to Tomakomai Port in northern Japan. JFE Engineering’s technological solutions are helping to strengthen ports and harbors across the nation.

Cycle Tree Bicycle Parking System Completed
The Cycle Tree multi-level bicycle parking system constructed at Keikyu Kawasaki Station near Tokyo accommodates more than 1,000 bicycles and contributes to urban aesthetics.

Cement Waste Heat Recovery System Completed in Romania
A heat recovery system was installed in Romania at the Alesd plant operated by Holcim, one of the world’s largest cement suppliers, earning JFE Engineering high praise.

Fukuyama Plastic Material Recycling Plant Launched
JFE Engineering launched a highly efficient binary facility for a geothermal power plant generation, the first to be constructed in Japan in 14 years, in the southern city of Ibusuki, Kagoshima Prefecture.

Order for Geothermal Binary Power Generation Facility
JFE Engineering will deliver a highly efficient binary facility for a geothermal power generation plant, the first to be constructed in Japan in 14 years, in the southern city of Ibusuki, Kagoshima Prefecture.

Order for Biomass Electric-Power Generation Plant
JFE Engineering has been awarded a contract to build a circulating fluidized bed boiler, which it proposed as Japan’s first solution for using palm kernel shell, a solid renewable fuel, to generate electric power.

Clean Plaza Fujiimi Commenced in Tokyo Suburbs
JFE Engineering completed the construction of a waste-to-energy plant in the Minato-Chofu area of suburban Tokyo. The company is now managing the plant’s operation in harmony with the surrounding community.

JFE Childcare Center Opened
A childcare center was built for JFE employees at JR Tsurumi Station in Yokohama. In addition to supporting the careers of working mothers at JFE, the facility helps to relieve demand for limited spaces at other facilities.

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