

## Cutting-Edge Technologies Coexisting in Harmony with the Environment: Greater Tokyo Metropolitan Area's Leading Urban Steelworks

The Keihin District of JFE Steel East Japan Works serves the global market, supplying high-end steel manufactured using cutting-edge technologies. It is also the first works in Japan to adopt used plastics as blast furnace feedstock, and it engages in a number of other environmental and recycling initiatives. In these ways, this eco-friendly steelworks is helping preserve the environment of the Keihin waterfront area.



## Where Steel Is Made—Achieving a Cumulative Global Record of 400 Million Tons

On May 13, 2013 the Fukuyama District of JFE Steel West Japan Works became the first in the world to achieve a cumulative crude steel output of 400 million tons, all produced at the same site. Upon its decision to install one more converter in its No. 3 steel mill, efforts were launched to introduce a cutting-edge process that utilizes converters for the preliminary treatment of molten pig iron.



## Strengthening Natural Gas Supply Infrastructure for the Chukyo Area

Having enlarged the LNG storage capacity of its Kawagoe Thermal Power Station by 1.75 times, Chubu Electric Power Company upgraded its natural gas supply system to make it more flexible and efficient. LNG storage facilities in Kawagoe and Chita LNG Terminals are now connected across Ise Bay by a submarine gas pipeline to facilitate the backup function. Playing a key role in this project, JFE Engineering completed the installation of plant facilities and the pipeline three months ahead of schedule. We will continue to work in accordance with the national policy of promoting natural gas utilization by providing cutting-edge technologies.



## Launching a Waste-to-Energy Plant in the Tokyo Suburbs

The Clean Plaza Fujimi, launched in April 2013 in Tokyo's Mitaka-Chofu suburbs, is intended to create a waste-to-energy plant coexisting in harmony with local residents. In addition to incorporating a high-performance stoker furnace, this plant has adopted an advanced exhaust gas treatment system to ensure eco-friendly operations. Along with plant design and construction, JFE Engineering has been commissioned to carry out plant operations over the next 20 years.



## Developing a Worldwide Network of Steel Processing Centers to Provide Customers with Access to the Global Market

JFE Shoji Trade boasts a global network of 16 steel processing centers serving mainly Asian markets. Using a sophisticated quality management system, these centers perform the primary, secondary and tertiary processing of electrical steel sheets and automotive steel sheets and ensure the just-in-time delivery of products to global customers. One such center was established in March 2013 in India, where the construction of power generation plants is becoming a national issue. Drawing on the new center's processing capabilities to meet customer requirements, we are seizing business opportunities brought about by demand for electrical steel that is growing in step with electricity output.



## World-Class Large Icebreaking Bulk Carrier

Built by Japan Marine United, "NUNAVIK" is one of the world's largest icebreaking bulk carriers. Boasting a deadweight capacity of 25,000 tons, NUNAVIK is capable of breaking through the ice as thick as 1.5 meters.



## Passing on Our Steel Manufacturing Heritage to the Next Generation

In Japan, the age distribution of the workforce is drastically changing as the baby boomers are now reaching mandatory retirement age. With this in mind, proactive efforts are under way at JFE Steel to impart steel manufacturing skills to younger employees. We have appointed long-serving and rehired employees as technical experts dedicated to human resource nurturing, thereby passing on our accumulated technological expertise and know-how to the next generation of engineers who will, in turn, lead the JFE Group's future operations.

