Brief History

1857
- In the reign of the Tokugawa Emperor, the region of Nagasaki was opened to foreign trade, and the industry of Yotetsusho was established.
- The first boiler was completed through a technical tie-up with Parsons & Company of England.
- The works was renamed Nagasaki Shipyard & Machinery Works.

1871
- Boiler-Tube and Pipe-Header Shops were built in the Fukahori/Koyagi areas.
- Work was begun on the largest coal-fired power plant in Japan.

1908
- The Electricity Shop was built.

1911
- The Electronics Shop was built.

1963
- MHI Technical Services Corporation (MTS; currently MHPS Technical Services Corporation) was established in the Philippines as an overseas design company.

1971
- Joint venture with Larsen & Toubro Limited (L&T), a leading construction and heavy machinery company based in India.

1981
- Joint venture with Larsen & Toubro Limited starts local production of turbines and boilers.

1993
- Mitsubishi Hitachi Power Systems, Ltd. was established as a joint venture company between Mitsubishi Heavy Industries and Hitachi.

2007
- Celebration of the 150th Foundation anniversary.

2008
- Joint venture was established with Larsen & Toubro Limited, a leading construction and heavy machinery company based in India.

2007
- Joint venture starts local production of turbines and boilers.

2014
- Mitsubishi Hitachi Power Systems, Ltd. changed its name to Mitsubishi Nagasaki Works of Mitsubishi Hitachi Power Systems.
Outline

Akumoura Area

This area, which was founded in 1931, is Mitsubishi Heavy Industries’ main boiler production facilities. The area is equipped with state-of-the-art facilities for the production of steam turbines, ranging from large 1,000MW operations to those for geothermal power generation, vessels, and other production lines. The Akumoura Area is also home to three fuel cell shops that produce state-of-the-art technological products.

Main Production Facilities

Akumoura Area

- Boiler Production
  - Superheater & Reheater Tube Shop
  - Furnace Wall & Economizer Tube, Gasifier Water Wall Shop
  - Gasifier Pressure Vessel Shop
  - Module Shop
  - Pipe-Header & Accessory Shop
  - Global net diagnostic center
  - Welding machine for large sized pressure vessel
  - High-Frequency pipe bender, NC header boring
  - Spiral fin tube welder capable of 44 welding head simultaneous
  - Continuous heat treatment facilities
  - Welding robot, TIG automatic welder, Assembling and Hight Strength Fastener Shop

Koyagi Area

The Koyagi Area was founded in 1972. It is one of the biggest boiler production facilities in the world, with an annual production capacity of 10,000MW, making it the largest in the country. The area is equipped with state-of-the-art facilities for the production of steam turbines, ranging from large 1,000MW operations to those for geothermal power generation, vessels, and other production lines. The Koyagi Area is also home to three fuel cell shops that produce state-of-the-art technological products.

Main Production Facilities

Koyagi Area

- Steam Turbine Shop
  - Axial Flow Fan with Variable Pitch Rotor Blade
  - SCR
- Turbine Blade Shop
  - Axial Flow Fan with Variable Pitch Rotor Blade
  - SCR
- IGCC & Boiler Shop
  - Steam Turbine Shop
  - Axial Flow Fan with Variable Pitch Rotor Blade
  - SCR
  - Turbine Blade Shop
  - Axial Flow Fan with Variable Pitch Rotor Blade
  - SCR

Combustion Test Facility

MHPS has a combustion test facility that features the world's largest capacity of coal combustion (4 tons/hr). The facility is built to achieve more advanced combustion technologies. It can test a variety of coals, particularly in terms of boiler efficiency and NOx emissions. The facility is also equipped with a water-cooling system, a water-cooling tower, and a nitrogen system. The facility can accommodate a wide variety of fuels, including bituminous coal, sub-bituminous coal, lignite, anthracite, biomass, petroleum coke and residual oil. By significantly improving combustion evaluation capability, we can further reduce fuel costs, thereby enhancing availability and easing environmental impact.

World Cultural Heritage “Sites of Japan’s Meiji Industrial Revolution”

In 2015, the five facilities in Mitsubishi Heavy Industries Nagasaki Shipyard & Machinery Works were registered as World Cultural Heritage – “Sites of Japan’s Meiji Industrial Revolution,” which consists of 23 sites located in 8 different prefectures.