

February 16, 2024
Clean Authority of TOKYO
Hitachi Zosen Corporation

Green Innovation Fund Projects Achieving Carbon Neutrality in Waste and Resource Circulation

~ Development of Waste Incineration Plant Based on CO₂ Separation and Capture ~

Hitachi Zosen Corporation proposed "Development of High CO₂ Concentration Waste Incineration Technology" for "Development of Waste Incineration Plant Based on CO₂ Separation and Capture" in which is a part of the "Achieving Carbon Neutrality in the Waste and Resource Circulation" project that New Energy and Industrial Technology Development Organization (NEDO) publicly solicited as Green Innovation Fund projects last October, and the proposal was selected as the project recipient.

<NEDO : <https://www.nedo.go.jp/english/index.html>>

Green Innovation Fund Projects are over 2 trillion Japanese yen fund set aside by NEDO for the purpose of achieving carbon neutrality by 2050. The projects share ambitious and specific goals and provide continuous support from R&D and demonstration to social implementation for companies and other organizations that address these goals as management issues.

Under the theme "Development of High CO₂ Concentration Waste Incineration Technology" Hitachi Zosen Corporation will establish waste incineration technology to increase the concentration of CO₂ in the exhaust gas and conduct research and development of a system for recovering carbon contained in waste with high efficiency at the Shinagawa Waste Incineration Plant in cooperation with Clean Authority of TOKYO.

<Clean Authority of TOKYO :

<https://www.union.tokyo23-seisou.lg.jp.e.de.hp.transer.com/gijutsu/gijutsu/gijutsukaihatsu.html>>

In 1965, when we delivered Japan's first Waste-to-Energy plant to the city of Osaka. To date, our group has delivered more than 1,400 waste treatment plants around the world. We are contributing to the supply of low-carbon energy through the expansion of waste to energy facilities. As a leading company in the field of waste incineration, we are committed to developing technologies to achieve carbon neutrality, including the world's first methanation system that utilizes CO₂ from waste incineration exhaust gas. We will continue to develop technologies to achieve carbon neutrality in the waste field.

The outline of the projects is as follows.

1. Conductors of Public Offering
New Energy and Industrial Technology Development Organization (NEDO)
2. Project name
Green Innovation Fund Projects Achieving Carbon Neutrality in Waste and Resource Circulation
3. R&D implementor : Hitachi Zosen Corporation
4. Theme of R&D : Development of High CO₂ Concentration Waste Incineration Technology
5. Implementation period : FY2023~FY2030 (A plan as of now)

[conceptual diagram of High CO₂ Concentration Waste Incineration Technology]

