

News Release

Kanadevia
Technology for people and planet

Kanadevia Corporation

December 12, 2024

Kanadevia Corporation to Exhibit at COP29 for the First Time

Contributing to Global Decarbonization and Resource Recycling by Proposing
New Waste-to-Energy Systems and Decarbonization Technologies

Hitachi Zosen Corporation changed its company name to Kanadevia Corporation in October 2024.

Kanadevia Corporation is pleased to announce that the Company exhibited at the 29th Conference of the United Nations Framework Convention on Climate Change (COP29) for the first time, at its Japan Pavilion, in Baku, the capital of the Republic of Azerbaijan, which was held from November 11 to November 24, 2024.

Michi KUWAHARA, President & COO of the Company, made a presentation “Achieving Circular Economy by Diverse Waste Management Technology and CCUS” at a seminar organized by the Japan Environmental Facilities Manufacturer Association (JEFMA)*.

< Kuwahara speaking at JEFMA seminar / the exhibition booth >



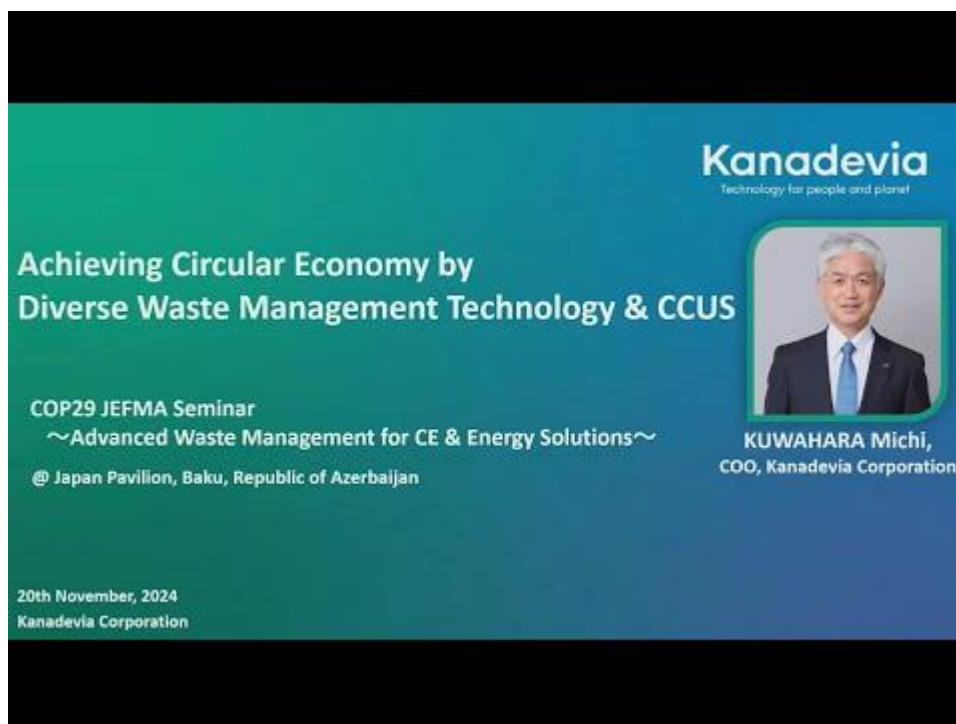
The theme of our booth was “Innovative Waste Management to Achieve Circular Economy & Net-Zero GHG Emissions.” Kanadevia exhibited its technologies for waste-to-energy (waste-fuelled power generation), wind power generation, seawater desalination, water electrolysis, methanation, and more. The exhibition attracted more than 1,000 visitors, including presidents, ministers, and other dignitaries from 123 countries and regions.

Among the visitors, Kanadevia received many positive responses, for example a visitor from Africa expressed the need for immediate waste-to-energy plant, and a visitor from Kyrgyzstan, where it has been decided that our waste treatment plant is installed, expressed his expectation that the technology will solve the waste problem and his reassurance about our technology.

In many regions of the world, waste is disposed of by landfill, but in Japan, waste-to-energy technology has advanced, and by combining it with technologies such as CO₂ capture and methanation, it can contribute to a circular economy and decarbonization.

Through our first exhibition at COP29, we were reminded that our technologies and products are in demand around the world and contribute to the circular economy and decarbonization.

【Video of KUWAHARA Michi President & COO presentation at the JEFMA seminar
(click on the image; 16 min.45 sec.)】



【Summary of the presentation】

1.Introduction

Our company has been operating for approximately 80 years as "Hitachi Zosen Corporation", but changed its trade name to "Kanadevia Corporation" in October 2024. Aiming to be a ‘solution partner for realizing sustainable, safe and secure society’, we are globally developing businesses in three areas: ‘resource circulation’, ‘decarbonisation’ and ‘safe & prosperous community’.

2. Waste-to-energy plant business.

Our company established a technical partnership with the Swiss WtE plant manufacturer, Von Roll Company (now Kanadevia Inova AG, hereinafter referred to as Inova), in 1960 and initiated the WtE plant business. After constructing Japan's first large-scale WtE plant in Osaka in 1965, we have deployed plants worldwide, with over 1,500 orders received to date.

3. Waste-to-X technologies

The concept of Wt X is to turn waste into resources using incineration (thermal treatment), gasification, and fermentation technologies, aiming to realize a circular economy. By combining WtE and CCUS (carbon dioxide capture, storage, and utilization), we aim for net-zero GHG emissions. The typical WtX processes our company offers are as follows.

- ① Pyrolysis gasification reforming technology
- ② Biomethanation technology
- ③ Bioethanol production technology
- ④ Development of High CO₂ Concentration Waste Incineration Technology

In addition to these, in Japan, we have successfully produced the country's largest amount of synthetic methane, and in the UK, a large-scale hydrogen fuel conversion and CCS project is underway. With such carbon dioxide capture technologies, we contribute to the decarbonization of the global waste management sector.

Our company aims to utilize, support, and prepare for the blessings and threats of nature through relentless technological innovation. We are committed to challenging the harmony between mankind and nature through the power of technology.

※JEFMA is a general incorporated association under the jurisdiction of the Ministry of the Environment. It aims to enhance technology and promote the healthy development of the environmental sanitation facilities industry by cooperating among members for information collection and research related to environmental sanitation facilities. In addition, it contributes to the preservation of living environments and the improvement of public health, as well as the formation on a circular society, by conducting activities related to the dissemination of appropriate environmental sanitation facilities.