

## Omi Plant Marks Its 100th Anniversary in December This Year



The Omi Plant (Itoigawa, Niigata) of Denka Company Limited (headquarters: Chuo-ku, Tokyo; president: Toshio Imai; hereinafter, "Denka") celebrated the 100th anniversary of its establishment in December this year.

The Omi Plant began manufacturing carbide in 1921, effectively using limestone from Mt. Kurohime, which is close to the plant, privately generated power, and other resources. The plant utilizes its unique "carbide-chain" to produce a wide range of products from inorganic chemicals, including calcium cyanamide fertilizers and special cement admixtures, to organic chemicals, including special synthetic rubbers and polymer hyaluronic acid preparations. It has been one of the main plants of Denka. In 2018, the Omi Innovation Hub, a new general office, was completed. The Omi Innovation Hub facilitates the integrated and efficient management of different divisions at the plant and functions as a hub for interactions with local communities. Also, the plant is developing an employee-friendly environment.

When the Omi Plant opened, a private hydroelectric power plant for the Omi Plant also commenced operation. In January this year, the New Omigawa Power Plant, a private hydroelectric power plant, began transmitting power. The Omi Plant now has 16 private power plants, with a maximum output of 126,000 kW in total, enough to power roughly 170,000 households (the second largest generation capacity among private manufacturers in Japan). In April next year, the New Himekawa No. 6 Power Plant is slated to start transmitting power. The Omi Plant is expanding its use of clean energy. Meanwhile, the Omi Plant is developing special technologies and materials. The plant is developing CCUS\* technologies to implement them to help achieve carbon neutrality. It is also conducting research and development of special admixture "LEAF" as the key material of "CO<sub>2</sub>-SUICOM", concrete that absorbs CO<sub>2</sub>, to make CO<sub>2</sub>-SUICOM more popular.

Denka will continue to position the Omi Plant as a key facility and will seek to achieve sustainable growth of the plant with local communities. With the SDGs as its compass, Denka aims to be an irreplaceable company for society, creating a better world for all through work Denka can perform better than anybody.

## 1. Profile of Omi Plant

- Address: 2209 Omi, Itoigawa, Niigata
- Main products: chloroprene rubber, poval, carbide, calcium cyanamide fertilizers, alumina fiber, cement, special admixtures, polymer hyaluronic acid preparations, ultra high purity monosilane gas
- Number of employees: Approx. 1,000

## 2. Major events at the Omi Plant

| Year              | Major events   |
|-------------------|--|
| December 1921     | The Omi Plant starts operation and starts to produce carbide. The Kotakigawa Power Plant (hydroelectric) completed                     |
| 1922              | Starts to produce calcium cyanamide fertilizers.   |
| 1938              | The Oami Power Plant (hydroelectric) completed   |
| 1954              | Starts to produce “Denka Cement”.  |
| 1962              | Starts to produce special elastomer “Denka Chloroprene”.   |
| 1963              | Starts to produce “Denka Poval”.   |
| 1967              | Starts to produce special admixture “Denka CSA”.   |
| 1982              | Starts to produce alumina fiber “Denka Alcen”.   |
| 1983              | Cement tankers Kurohime Maru and Omi Maru are completed and service begins.<br>Cement waste heat power generation facilities completed |
| 1989              | Starts to produce monosilane gas.  |
| 1996              | Starts to produce polymer hyaluronic acid preparations.  |
| 2002              | A biomass power generation facility completed. Introduces a large, 218 ton dump truck, one of the largest ones in Japan.               |
| 2015              | Remodels the Kotakigawa Power Plant (hydroelectric) and improves efficiency.   |
| 2018              | The Omi Innovation Hub, a general office, completed  |
| 2019              | Starts to produce new special elastomer “Evolmer”.   |
| April 2020        | Decides to resume diethyl malonate, a raw material for “Avigan®”.  |
| January 2021      | The New Omigawa Power Plant (hydroelectric) begins transmitting power.   |
| July 2021         | Establishes the Omi Sustainability Promotion Department to achieve carbon neutrality.  |
| April 2022 (plan) | The New Himekawa Power Plant No. 6 (hydroelectric) begins transmitting power.  |

\* CCUS: carbon dioxide capture, utilization and storage

This is a technology for separating the CO<sub>2</sub> in exhaust gases from plants and factories from other constituents, capturing it and preventing it from being emitted into the air.

Government and academia are conducting research on storing recovered CO<sub>2</sub> underground and on the sea bed and reusing recovered CO<sub>2</sub> as a raw material for chemicals and fuels.

Denka collaborates with AIST in the development of CCUS.

\* Avigan is a registered trademark of FUJIFILM Toyama Chemical Co., Ltd.

[For Inquiries about This Press Release from Media]  
Corporate Communications Dept. Tel: +81-3-5290-5511