

December 6, 2021

Installation Work Begins on The Region's Largest* Solar Power Plant

Introducing MEGA-SOLAR in-house power generation facility
with the aim of reducing greenhouse gas emissions
toward achieving a decarbonized society

NIKKEN MEGA SOLAR

Launch of The Nikken Mega-solar Project



Image of completed work

Nikken Kosakusho Works, Ltd. (“Nikken” or “the Company”) announces its decision to introduce a large-scale (capacity greater than 1 MW) in-house solar power generation facility on the 55,000-m² property of its head office and factory in the city of Daito, Osaka, in a joint project with Kansai Electric Power Co., Inc. (“Kansai Electric Power”) aiming to promote efforts to reduce greenhouse gas emissions toward the realization of a decarbonized society.

Overview of new facility

- Solar panel capacity : 1.920MW (1,920kW9)
- Annual in-house consumption : 1,972MWh (1,972,000kWh)
- Annual CO₂ emissions reduction : About 20%

Background

In October 2020, the Japanese government pledged to achieve carbon neutrality by 2050 as a measure to combat climate change. In addition, in April 2021, the government published a new greenhouse gas emissions reduction target of 46% from fiscal 2013 to fiscal 2030.

Nikken's introduction of an in-house solar power generation facility should substantially reduce its CO₂ emissions and enable the Company to reduce its burden on the environment.

- Construction start date : October 9, 2021
- Scheduled completion : Mid-January 2022

By consuming power generated on-site, Nikken expects to cut its annual CO₂ emissions by about 20%. Facility construction began on October 9, 2021, and is scheduled for completion in mid-January 2022.

Overview of joint project with Kansai Electric Power

Kansai Electric Power will install solar power generation equipment on the rooftops of the two main factory buildings on the property of Nikken's head office and factory, and will operate and maintain the equipment as their own thereafter as part of the on-site solar power generation service they provide to businesses around Japan. The solar panel capacity will be 1.92 MW, and the estimated annual power output is 1,972 MWh, making this facility the largest among those provided in Japan by Kansai Electric Power under the service.

BCP measures: Overview of electricity storage equipment

Severe natural disasters have occurred frequently in recent years due to factors such as global warming. Many long-lasting power outages have also occurred, and companies are realizing the indispensability of BCP measures. The solar power generation facility to be installed at Nikken will be equipped with storage batteries with capacity of 153.6 kWh for supplying a finite amount of electricity during power outages.

***Region's largest**

Nikken's head office and factory are located in an urbanization promotion area within a 2-km radius of the Daito City Office in Osaka Prefecture; with a power generation capacity of 1.92 MW, the new facility will be the largest in the city. In the former Kitakawachi region, which includes the cities of Moriguchi, Hirakata, Neyagawa, Kadoma, Shijonawate, and Katano, the facility's capacity will be on par with the 1.5-MW maximum capacity of the solar power plant at Nagisa Mizu Mirai Center operated by the Osaka prefectural government.

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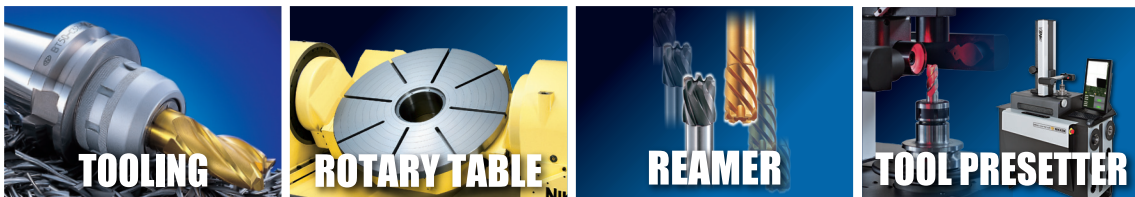
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Image of the in-house power generation equipment installed to date



About Nikken



Nikken is a machine tool attachment and cutting tool manufacturer active in a wide variety of industries from aviation and automotive to ultraprecision machining since its establishment in 1958. With an integrated production system covering everything from material machining to ultraprecision finishing, the Company enjoys a tremendous reputation as a substantial contributor in industries throughout Japan and overseas. True to its name, which stands for “research every day” in Japanese, Nikken taps into its abundance of the human element in pursuit of Japanese-style manufacturing in its purest form.

Nikken' s efforts toward achievement of the SDGs



Nikken proposes and provides highly energy-efficient, sensible machining tools to help people achieve their goals of sustainable development amid the global warming crisis. The Company believes such efforts to be its calling, and has continually provided many users with production streamlining solutions under the slogan “Machining Eco” (promoting low energy consumption in machining) since 2009.

The Company views the SDGs, set forth by the UN as a global call to action, as the natural evolution of its calling symbolized by the slogan “Machining Eco” into an applicable target for all industries. In 2020, to fulfill its corporate social responsibility, the Company promoted tooling as a means of preventing machines from being treated as dispensable, and launched a maintenance service project titled “Nikken Tool Clinic,” which aims to extend the useful lives of machines through tooling.

