

# News Release

June 27, 2024  
Proterial, Ltd.

## Captive use solar power generation facility began full-scale operation at the Toyoura Plant

Proterial, Ltd. introduced a captive use photovoltaic power generation facility in the Toyoura Plant of Ibaraki Works (Hitachi City, Ibaraki Prefecture) as part of its efforts to realize a decarbonized society, and started full-scale operation in March 2024. The 1.95 million kWh/year of electric power generated by the facility is expected to be used entirely within the plant, and will amount to approximately 3.8% of its electric power consumption.\*<sup>1</sup> In addition, this will result in a 900 tons/year reduction in carbon dioxide (CO<sub>2</sub>) emissions.



Photo: Captive use solar power generation facilities installed in the Toyoura plant of Ibaraki works.

### Overview

Location of installation	Toyoura Plant of Ibaraki Works, Proterial, Ltd. (Hitachi City, Ibaraki Prefecture)
Total output of solar modules	1,700kW (approximately 1.7 MW)
Annual electricity production (estimated)* <sup>2</sup>	1.95 million kWh (first FY)

### 1. Background

Proterial positions its contribution to the creation of decarbonized societies to be a key corporate challenge (materiality). We aim to contribute to the transition to decarbonized societies by reducing CO<sub>2</sub> emissions from our own operations by 38% in FY2030 (compared to FY2015) as our mid-term target and achieve carbon neutrality by 2050 as our long-term target. To this end, we are working to expand our employment of renewable energy and promote energy conservation.

With regard to renewable energy, we have so far installed large-scale self-consumption solar power generation facilities in the Kumagaya area (Kumagaya City, Saitama Prefecture, Japan), the Moka area (Moka City, Tochigi Prefecture, Japan), and in Vietnam. As of the end of fiscal year 2023, electricity generated from renewable energies was estimated 22 million kWh/year (21,900 MWh/year)\*<sup>3</sup>, and we aim to increase this to over 35 million kWh/year (35,000 MWh/year) by fiscal year 2030.

### 2. Overview

#### Proterial, Ltd.

Toyosu Prime Square, 5-6-36 Toyosu, Koto-ku, Tokyo 135-0061, Japan  
[www.proterial.com/e](http://www.proterial.com/e)

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The aim of this project is to efficiently employ renewable energy by utilizing the TPO/PPA model (Third Party Ownership/Power Purchase Agreement) for solar power generation and using company-owned land within our plant site. The TPO/PPA model is a scheme in which a solar power system is installed by a company that owns and manages solar power generation equipment (power sales contractor) on a site, roof, or other space provided by the owner of a facility, and the electricity generated is provided to the power consumer of the facility (facility owner) for a fee. This has the advantage of enabling the facility owner (Proterial) to use renewable energy on a large scale while reducing risk by off-balancing its solar power generation.\*4

As a green enabler, in addition to working to reduce CO<sub>2</sub> emissions from its own operations by introducing renewable energy and promoting energy conservation, Proterial is committed to contributing to the creation of decarbonized societies by developing and offering advanced products (environmentally friendly products) that contribute to overcoming climate change issues.

\*1: Percentage at the start of operation

\*2: Based on conditions presumed by the power sales contractor

\*3: Estimated annual power generation calculated based on power generation capacity as of the end of March 2024

\*4: Not recorded as an asset on the balance sheet

Media Inquiries: Corporate Communications Dept.

[https://www.cntct.proterial.com/contact/publish/inquiry\\_eng?g=01&c=001-01](https://www.cntct.proterial.com/contact/publish/inquiry_eng?g=01&c=001-01)

## ■About PROTERIAL

# PROTERIAL

“Proterial” reflects the essence of our corporate philosophy, which consists of three elements: Mission: “Make the best quality available to everyone;” Vision: “Leading sustainability by high performance;” and Values: “Unfaltering integrity” and “United by respect.” It combines “**pro-**” with the word “**material.**”

“Pro-” represents our “three pros”:

- **Professional — work that exceeds expectations**
- **Progressive — a spirit that keeps challenging**
- **Proactive —an enterprising attitude**

“Material” refers to the high-performance materials that our original technologies produce and underpinned by the three pros. With our focus on solving customer issues and bringing new levels of value, we promise to contribute to the realization of a sustainable society through the products and services that embody our philosophy.

## ■Proterial, Ltd. — Company Overview

Established: April 1956

Head office: Toyosu Prime Square, 5-6-36 Toyosu, Koto-ku, Tokyo 135-0061, Japan

Capital: 310 million yen (as of March 31, 2024)

Representative: Sean M. Stack

Representative Director, Chairman, President and Chief Executive Officer (CEO)

Sales revenue: 1,033.2 billion yen (Term ended March 2024)

History: 1910: Founded as Tobata Foundry Co.

1937: Merged with Hitachi, Ltd.

1956: Established separately as Hitachi Metals Industries, Ltd.

2023: Company separated from the Hitachi Group, and renamed from Hitachi Metals, Ltd. to Proterial, Ltd.

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