



To whom it may concern

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Hokkaido Nakafurano Town
GSI Creos Corporation

Nakafurano Town and GSI Creos Corporation Launch Pilot of Semi-Transparent Organic Photovoltaic on Town Hall Windows.

Phase 1 turns unused window surfaces into a power source to advance Smart City Nakafurano and strengthen resilience during outages

Nakafurano Town (Hokkaido; Mayor: Kiyoshi Komatsuda) and GSI Creos Corporation (Tokyo; President and CEO: Tadaaki Yoshinaga; hereafter “GSI Creos”) announced the start of a joint pilot of Semi-Transparent Organic Photovoltaic (ST-OPV) affixed to the south-facing windows of the Mayor’s Office at Nakafurano Town Hall.

Initiated under a comprehensive partnership agreement signed on July 16, 2026, Phase 1 will quantitatively verify the energy generation and heat-shielding benefits of window-integrated ST-OPV, as well as its effectiveness as a self-sustaining power source during outages—an important first step toward realizing “Smart City Nakafurano,” a low-energy, resilient community.

This pilot will evaluate how converting unused window surfaces into a distributed energy resource can contribute to decarbonization, support critical municipal operations during power interruptions, and deliver measurable comfort and efficiency gains in public buildings.

Technical overview (Phase 1)

- Location and scope: South-facing windows of the Mayor’s Office at Nakafurano Town Hall; approximate applied area of 6.1 m² (about 66 sq ft)
- Equipment:
 - 16 ST-OPV panels laminated on the interior side of the glazing
 - Two portable batteries (Honda Mobile Power Pack e ^(*)) and associated power control equipment

^(*) Honda Mobile Power Pack e: is a registered trademark of Honda Motor Co., Ltd.

- System configuration and operations:
 - Maximum system voltage below 50 V DC
 - Operated as an independent, off-grid pilot circuit supplying priority loads inside the Mayor’s Office (e.g., PCs, displays)
 - Multiple charge/discharge control patterns will be tested under normal conditions to identify optimal operation
 - Simulated outage tests will validate islanding procedures and quantify self-sustained runtime
- Planned pilot duration: Approximately 12 months



Key measurements and evaluation items

- Power generation, storage, and discharge by time of day and season
- Indoor temperature, solar irradiance at the window, and qualitative/quantitative assessment of heat-rejection performance
- User impressions regarding view, daylighting, and glare
- Self-sustained runtime for priority loads and operational effectiveness during emergencies
- Constructability, weatherability, and maintainability (e.g., cleaning frequency, adhesion status)

Expected benefits for Nakafurano Town

- Validate daytime heat-shielding effects and related indoor temperature changes
- Complement emergency power capability to help sustain critical operations during outages
- Provide a “visible” demonstration site for residents and visitors, strengthening communication and engagement inside and outside the region

Quote from Mayor Kiyoshi Komatsuda: “We believe this small first step—starting from a single room in Town Hall—can lead to lower energy consumption across our community and build a stronger foundation for peace of mind. We will ensure that the insights from this pilot inform the next phase of expansion.”



ST-OPV installed in the Mayor's Office at Nakafurano Town Hall

Roadmap for demonstration

- Phase 1: Mayor's Office, Nakafurano Town Hall (current)
 - Validate power generation and heat-shielding performance from ST-OPV window installations; confirm charging capability to portable batteries



- Phase 2: Additional rooms within Town Hall (meeting rooms, office areas) and agricultural facilities in Nakafurano Town
 - Expand ST-OPV coverage; pilot larger self-sustaining zones by coordinating with storage; verify heat-shielding and generation benefits in agricultural greenhouses
- Phase 3: Expansion to additional Town-owned buildings
 - Install on windows across public facilities to improve everyday energy efficiency and to test off-grid operation during disasters or external power interruptions, advancing local, distributed energy use

About Nakafurano Town

Located in central Hokkaido's Furano region, Nakafurano is renowned as the "Town of Lavender." In June 2022, the town declared "Zero Carbon City Nakafurano," aiming to achieve net-zero greenhouse gas emissions across the community by 2050. The town actively promotes initiatives that support a decarbonized society and resilient local infrastructure.

➤ Nakafurano Town website (Japanese): <https://www.town.nakafurano.lg.jp/>

About GSI Creos Corporation

GSI Creos is a business-creating trading company operating globally across "Textile Materials" and "Industrial Products", with nine domestic and 27 overseas bases. Guided by our purpose—"As a **"Business Producer" seeking quality of life for the next generation, we realize the happiness of all the people.**"—GSI Creos advances ESG management and creates new value in the fields of **environment, life and health, and energy** to address social challenges and improve well-being.

In 2021, GSI Creos invested in a Canadian startup specializing in the synthesis of polymer semiconductors, entering the organic electronics field in earnest.

In April 2026, GSI Creos established Ouroboros Power Harvesting Corporation (OPH), a subsidiary dedicated to commercializing next-generation ST-OPV, with the goal of contributing to a sustainable and resilient society through window-integrated solar solutions.

➤ GSI Creos website: <https://www.gsi.co.jp/en/index.html>

➤ Ouroboros Power Harvesting website: <https://www.oph-jp.com/en/index.html>

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