

To members of the press

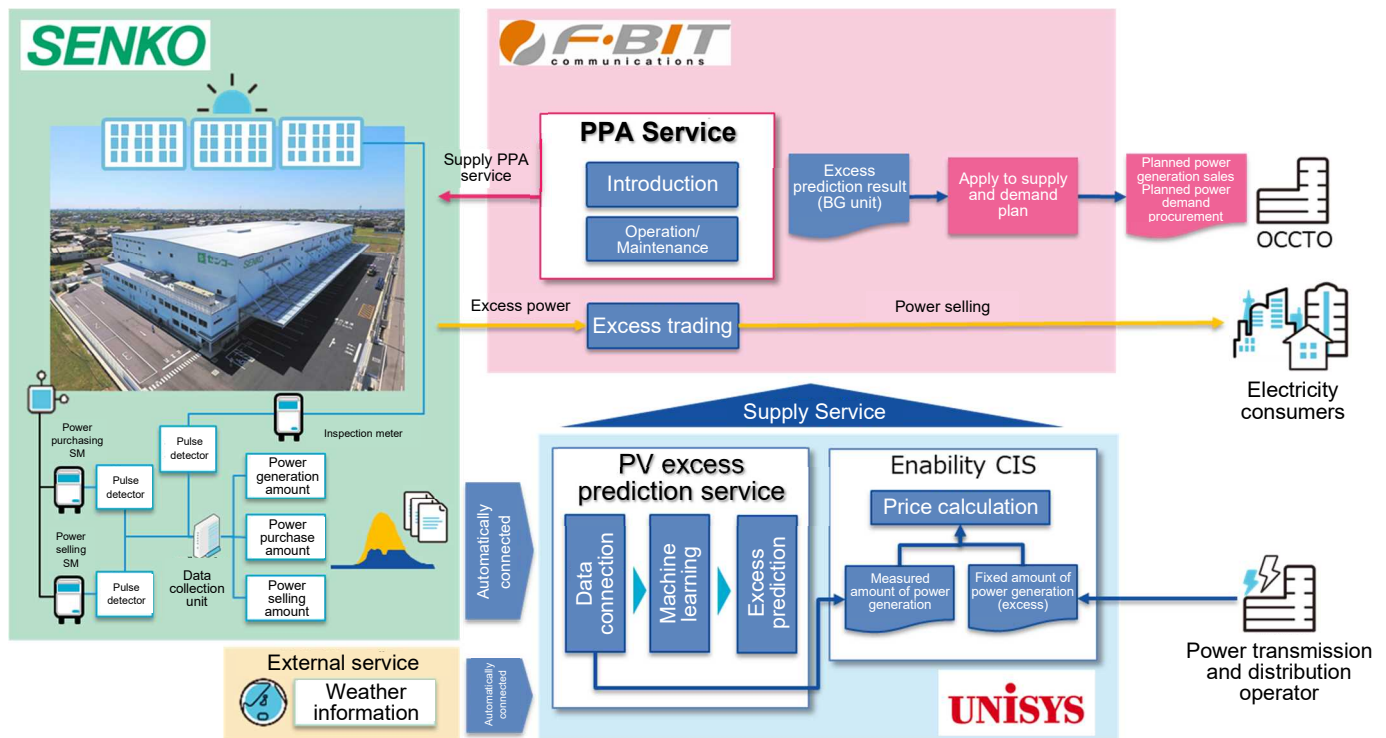
August 10, 2021  
 SENKO Co., Ltd.  
 F-Bit Communications Corp.  
 Nihon Unisys Ltd.

## Scheme Developed for Maximizing Use of Renewable Energy with Solar Power PPA Model by SENKO, F-Bit Communications and Nihon Unisys

- Aiming to increase the renewable energy ratio for achieving a carbon-free society, and effective utilization of excess solar power for power retailing

SENKO Co., Ltd. (Head office: Kita-ku, Osaka; President and Representative Director: Yasuhisa Fukuda), F-Bit Communications Corp. (Head office: Minami-ku, Kyoto; Representative Director: Yukio Yoshimoto) and Nihon Unisys Ltd. (Head office: Koto-ku, Tokyo; Representative Director: Akiyoshi Hiraoka) have developed the PPA service\* aimed at increasing the ratio of on-site consumption of the large-scale solar power generation system installed at SENKO's large Gifu Hashima PD center, and created a scheme for the effective utilization of excess power as a source for power retailing. The three companies are harnessing their respective expertise with the aim of achieving a low-carbon or carbon-free society and increasing the ratio of renewable energy.

\* PPA services: Owners of facilities provide some area on the roof and other space free of charge, and companies operating and managing power generation equipment (PPA operator) install the equipment there and at provide power generated there for a fee to the owners of the facilities.



SENKO Group is aiming to become an "environmentally advanced corporation," and as such has used Green Bonds for the construction of solar power generation systems (1,051 kW) on the entire roof of its Gifu Hashima PD center as part of this scheme. Under ordinary circumstances involving on-site power consumption, the size of power generation equipment needs to be considered so that there is no excess power generated, whereas this scheme allows the installation space to be used effectively so that generated power can be utilized on-site to the maximum extent possible. This approach will allow SENKO to achieve carbon-free processes throughout the entire supply chain and increase its on-site consumption of renewable energy, while also supplying power retailer F-Bit Communications with excess power to be utilized as a source of retail power, with the aim of securing a supply and promoting greater use of renewable energy. Nihon Unisys will provide the systems for predicting the amount of excess power and the measured amount of power generation used for PPA model price calculations, to minimizing the risk of imbalances (difference between planned and actual power generation) when using excess power as a source of retail power.

Methods for utilizing the various types of environmental value created with solar power generation will also be examined to be applied as new initiatives aimed at achieving a low-carbon or carbon-free society and limiting global warming.

The solar power generation system used for this scheme is a system developed by Kyocera Corporation.

### 1. Overview of this Project

Name: PPA service for increasing on-site power consumption of renewable energy, and scheme developed for effective utilization of excess power for power retailing

Project Commencement: Scheduled in 2021

Location: SENKO Gifu Hashima PD Center

Project details:

<PPA service for increasing on-site power consumption of renewable energy>

- (1) Examine ways of increasing the ratio of on-site power consumption of renewable energy
- (2) Investigate ways to apply the scheme to other sites

<Effective utilization of excess power for power retailing>

- (3) Increase the ratio of renewable energy and reduce procurement costs by utilizing excess power for power retailing
- (4) Minimize risks of imbalances in the amount of predicted excess power and examine cost benefits
- (5) Examine ways of utilizing the environmental value

### 2. Role of each company

SENKO: Provide project site, examine the effects of increasing the ratio of on-site power consumption of renewable energy

F-Bit Communications: Provide data on amount of power, apply predicted results to supply and demand plan, assess profitability including excess power retailing and risks of imbalances, study environmental value utilization business

Nihon Unisys: provide systems for predicting amount of excess solar power generation and measured amount of power generation used for solar power generation PPA model price calculations, support proposed simulations for providing PPA models, study environmental value utilization business

### 3. Future plans

The range of know-how attained through this project will be utilized as part of plans for expanding the project to other logistics sites.

More studies are also planned to be conducted for further increasing the ratio of renewable energy at logistics sites where electric vehicles are planned to be used and charged with renewable energy.

Efforts will continue being made for developing a sustainable society and achieving zero emissions with initiatives such as increasing the ratio of renewable energy power sources to power retailers, providing RE100\* options, and promoting greater use of distributed power sources like battery storage systems and electric vehicles to PPA operators.

\* A global initiative aimed at having companies use renewable energy to covering all the power used for their business operations.

End.

**[Related Links]**

- "Gifu Hashima PD Center" Opens - Expanding business in the Chubu region and creating employment opportunities -  
<https://www.senko.co.jp/jp/news/assets/6dbc0ea0da0e753cdbb6bdc5e7eec8fd71217710.pdf>
- New business launched by F-Bit Communications "F-Bit Onsite PPA Model"  
<https://www.fbit.co.jp/ppa/>
- Excess solar power prediction service for power retailers / AI prediction service  
[https://www.unisys.co.jp/solution/lob/energy/ems/power\\_prediction.html](https://www.unisys.co.jp/solution/lob/energy/ems/power_prediction.html)

**■ Company Overview: SENKO Co., Ltd.**

Company name: SENKO Co., Ltd.

Established: April 2016

President and Representative Director: Yasuhisa Fukuda

Umeda Sky Building West Tower, 1-1-30 Oyodonaka, Kita-ku, Osaka, 531-6115 JAPAN

URL: <https://www.senko.co.jp/>

**■ Company Overview: F-Bit Communications Corp.**

Company name: F-Bit Communications Corp.

Established: August 1964

President and Representative Director: Yukio Yoshimoto

Location: 23 Muromachi, Higashikujo, Minami-ku, Kyoto, 601-8001 JAPAN

URL: <https://www.fbit.co.jp/>

**■ Company Overview: Nihon Unisys Ltd.**

Company name: Nihon Unisys Ltd.

Established: 1958

President and Representative Director: Akiyoshi Hiraoka

Location: 1-1-1, Toyosu, Koto-ku, Tokyo, 135-8560 JAPAN

URL: <https://www.unisys.co.jp/>

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\* Information included in this release is current as of the date of release. Note that this information is subject to change without notice.