

July 12, 2024

STAR MICRONICS CO., LTD.

## **Kikugawa South Factory Becomes First Building in Shizuoka Prefecture to Receive Both ZEB and CASBEE S-Rank Certifications**

**- Toward the realization of sustainable factories with virtually zero energy consumption -**



STAR MICRONICS CO., LTD. (Head office: Suruga-ku, Shizuoka City, Shizuoka Prefecture; Representative Director and CEO Mamoru Sato) is pleased to announce that its Kikugawa South Factory (tentative name, hereinafter omitted), which is scheduled to be newly constructed on the Company's premises in Kikugawa City, Shizuoka Prefecture, has obtained both the ZEB certification\*<sup>1</sup> under the Building-Housing Energy-efficiency Labeling System (BELS), an indicator of energy-saving performance, and the highest S ranking under the CASBEE evaluation and certification method.\*<sup>2</sup> This is the first building in Shizuoka Prefecture to receive both certifications to the highest standards.\*<sup>3</sup>

The Kikugawa South Factory is being constructed with the aim of enhancing production capacity of spindles, a core component of the machine tools manufactured by the Company. Construction is scheduled to commence in July 2024, and operations to commence in November 2025. As a factory that shows our consideration for the global environment, it has been designed to raise energy use efficiency and the features we have adopted include an exterior envelope (exterior walls, roof, and windows) with high insulation performance, highly efficient air conditioning equipment, and earth tube facilities\*<sup>4</sup> that utilize geothermal heat. In addition, solar power generation panels with an output of approximately 800kW will be installed on the roof. By incorporating designs and equipment to achieve high levels of energy conservation and energy creation, the plan is to reduce primary energy consumption by 112% compared with conventional buildings.

We will also be able to track the amount of electricity being used in visual form by means of a Building Energy Management System (BEMS) as we work continuously to reduce power consumption. As smart factories designed to reduce the burden on workers, our manufacturing sites

will have equipment installed that will boost production line automation and labor savings. We aim for cutting-edge, sustainable factories that balance environmental friendliness with the business operating efficiency.

Engaging in environmentally friendly business activities in the years to come, we will achieve our targets for reducing Scope 1 and 2 greenhouse gas emissions by 46% compared with fiscal 2013 levels in fiscal 2030, achieve virtually zero emissions in fiscal 2050, and thereby contribute to the realization of a sustainable society.

\*1 The abbreviation for Net Zero Energy Building, the aim is for a building to achieve a zero balance in its annual primary energy consumption, and for its performance to be certified by designated organizations under the BELS certification system, a system for indicating the energy-saving performance of buildings. Standards are set for the amount of energy required by conventional buildings for each building use, buildings being broadly classified into four levels depending on the reduction rate from that standard, with ZEB being the highest rank.

\*2 Developed under a Ministry of Land, Infrastructure, Transport and Tourism and The Institute for Built Environment and Carbon Neutral for SDGs (IBECs) as the Comprehensive Assessment System for Built Environment Efficiency, this system comprehensively evaluates the environmental performance and quality of buildings. Environmental performance efficiency is calculated based on evaluation items that include a building's environmental quality and performance as well as features designed to reduce its environmental impact. A system by which designated institutions conduct evaluations and certify properties using a five-level ranking, from C the lowest to S the highest.

\*3 As of July 11, based on the data published on the following websites. Only buildings that have received third-party certification are included.

ZEB: The Association for Evaluating and Labeling Housing Performance (Note: Case study data list)

<https://bels.hyoukakyokai.or.jp/cases/list>

(in Japanese only)

CASBEE: The Institute for Built Environment and Carbon Neutral for SDGs (Note: List of CASBEE building evaluation-certified properties)

[https://www.ibecs.or.jp/CASBEE/certified\\_buld/CASBEE\\_certified\\_buld\\_list.htm](https://www.ibecs.or.jp/CASBEE/certified_buld/CASBEE_certified_buld_list.htm)

(in Japanese only)

\*4 Equipment that pumps outside air into rooms via pipes buried underground. Underground, the temperature remains stable throughout the year, and the load placed on heating and cooling systems is reduced by bringing the cold air of winter and the hot air of summer closer to the underground temperature as it passes through the ground.

## ■ Building Overview

Name: Kikugawa South Factory (tentative)  
 Location: Misawa, Kikugawa City, Shizuoka Prefecture  
 Activities: Manufacture of core components  
 Structural overview: Steel-framed three-story building  
 Building area: Approx. 10,300 m<sup>2</sup> (approx. 3,120 tsubo)  
 Total floor area: Approx. 13,700 m<sup>2</sup> (approx. 4,150 tsubo)  
 Total project expenses: Approx. ¥10 billion  
 Start of construction: July 2024  
 Start of operations: November 2025 (planned)  
 Design and construction: Kiuchi Construction Co., Ltd.

## ■ Certificates



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