

Participation as an Exhibitor in the Decarbonisation Expo

Kyudenko Corporation (hereinafter referred to as the “Company”) hereby announces that the Company and GRID INC. (hereinafter referred to as “GRID”) will jointly exhibit an AI-based HVAC heat source control optimization system at the Decarbonisation Expo to be held in Tokyo Big Sight from March 16, 2022 (Wednesday) to March 18, 2022 (Friday).

Amidst the acceleration of initiatives for the rapid reduction of CO2 emissions for decarbonization, a 51% reduction (compared to 2013) in business and other sectors that include large scale facilities and buildings is required to achieve the 46% cut in greenhouse gas emissions set by the government by 2030 and to exceed the target and achieve a 50% cut.

The key for the realization of a CO2 reduction in these sectors is the optimization of HVAC heat source control that accounts for a large part of used energy.

In the past, HVAC heat source control in large scale facilities and buildings was carried out by maintenance staff members adjusting parameters based on their experience and intuition. Consequently, the passing down of skills possessed by experienced maintenance staff members to the younger generation and shortage of successors are challenges.

Based on these circumstances, the Company and GRID have been working on joint development of an HVAC heat source control optimization system realized by integration of the Company’s HVAC system related technology in building equipment with GRID’s digital twin and AI optimization technology that is based on its extensive experience in the social infrastructure field.

Reductions of CO2 emissions by 16.3% a year and energy costs by 12.5% at the maximum were confirmed by verification simulations utilizing actual measurement data in three large-size stores. A trial introduction in actual stores in FY2022 is scheduled.

Kyudenko and GRID will continue to aim for a reduction of the environmental load and contribute to the realization of sustainable society.

Exhibition Outline

- **Exhibition Name:** Decarbonisation Expo
- **Period:** March 16, 2022 (Wednesday) to March 18, 2022 (Friday)
- **Location:** Tokyo Big Sight
- **Exhibition Fields:** 91 corporate exhibitors from the fields such as regeneration energy generation, EMS, storage batteries, ZEB, HVAC energy saving

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