Regarding the Nobel Prize in Chemistry Awarded to Professor Susumu Kitagawa of Kyoto

University

Nagase & Co., Ltd. extends its heartfelt congratulations to Professor Susumu Kitagawa,

Distinguished Professor at Kyoto University, on being awarded the 2025 Nobel Prize in

Chemistry.

Nagase & Co., Ltd. (Head Office: Chiyoda-ku, Tokyo; President and CEO: Hiroyuki

Ueshima; hereinafter "NAGASE") has been collaborating since 2021 with Atomis Inc. (Head

Office: Kobe, Hyogo; CEO: Daisuke Asari; hereinafter "Atomis"), a company for which

Professor Kitagawa serves as Scientific Advisor. Together, we have been engaged in the

development of technologies for CO2 separation and capture using porous coordination

polymers/metal-organic frameworks (PCP/MOFs).

Atomis, its partner companies, and NAGASE are jointly developing a CO₂ separation and

capture system that utilizes MOF adsorbents developed by Atomis. This innovative system

can selectively absorb CO2 from moist combustion exhaust gases, such as those emitted by

factories. By eliminating the need for a conventional dehumidification step, the technology

enables reductions in both equipment and operational costs, while also achieving energy

savings and a more compact design of equipment. A demonstration test of the system is

scheduled to take place this autumn at a partner company's facility, with the goal of realizing

early social implementation.

As a company that uses materials to solve manufacturing challenges, the NAGASE Group is

committed to contributing to solutions for broader social issues. Going forward, we will

continue to combine Atomis' PCP/MOF technologies—expected to help mitigate global

environmental issues such as climate change—with the NAGASE Group's extensive network

and expertise, to deliver new forms of value and contribute to the realization of a sustainable

world where people can live with peace of mind.

<Business inquiries>

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