May 20, 2026
Idemitsu Kosan Co.,Ltd.

A Pole-Raising Ceremony was Held for the Construction of Large Pilot Facility for Solid Electrolytes (All-Solid-State Battery Materials)

With a view to commercialization in 2027–2028, the project is moving into the full-scale construction phase

Idemitsu Kosan Co.,Ltd. (Head Office: Chiyoda-ku, Tokyo; Representative Director, President: Noriaki Sakai; hereinafter referred to as "Idemitsu") is proceeding with the construction of a large pilot facility for producing solid electrolytes (hereinafter referred to as the "Facility") at its Chiba Complex (Ichihara City, Chiba Prefecture). Solid electrolytes are materials for all-solid-state lithium-ion rechargeable batteries (hereinafter referred to as "all-solid-state batteries").* On May 13, 2026, a pole-raising ceremony was held at the planned construction site. Foundation work has been completed as planned, and full-scale construction is now underway. (Expected completion date: Sometime in 2027)

*All-solid-state battery: A battery that uses a solid electrolyte, unlike conventional liquid batteries. Ions move more easily, enabling shorter charging times and higher power output for electric vehicles. In addition, because all-solid-state batteries are resistant to high voltage and high temperature, they are expected to improve energy density and lengthen service life.



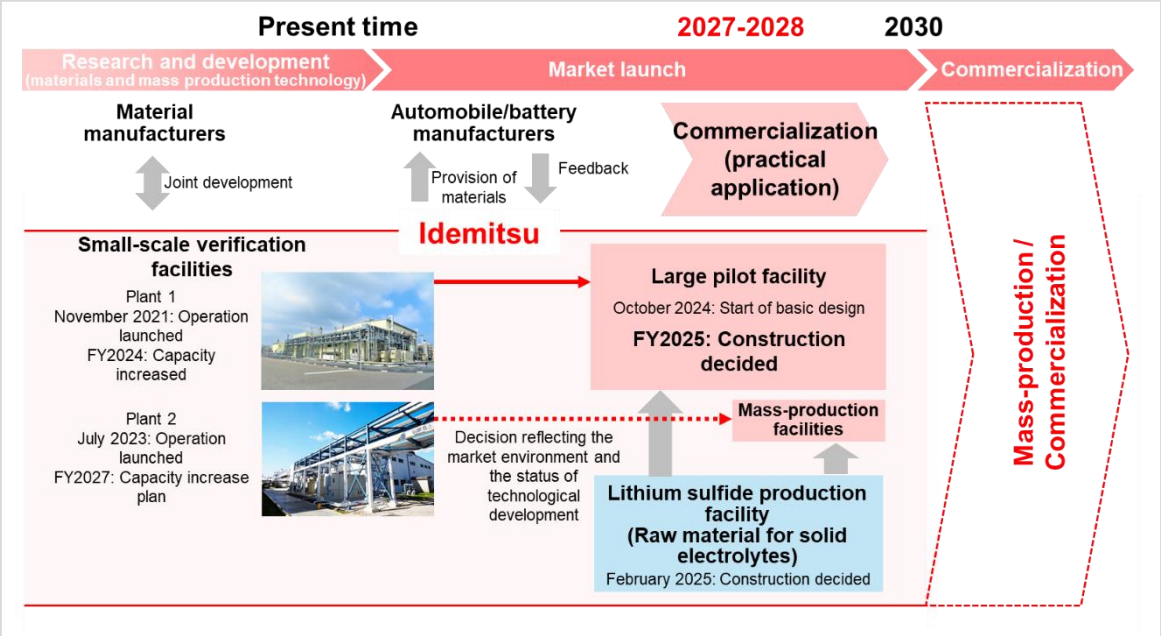
Scene from the pole-raising ceremony



Large pilot facility under construction

Idemitsu is collaborating with Toyota Motor Corporation (hereinafter referred to as "Toyota") with the goal of commercializing all-solid-state batteries in 2027–2028. The pole-raising ceremony was attended by representatives from Chiyoda Corporation (which is responsible for constructing the Facility) and related parties, including Toyota.

Through this Facility, we will further accelerate the improvement of solid electrolyte performance and the development of mass production technology. At the same time, we will steadily build an integrated supply chain, encompassing everything from raw materials to finished products, thereby supporting the social implementation of all-solid-state batteries from a material perspective.



Project Roadmap

[Reference]

• Positioning of solid electrolyte development at Idemitsu
In our Medium-term Management Plan (FY2026–FY2030), we have positioned the development of material solutions—which are key to advancing the field of electrification and ICT convergence—as an effort of our business strategy, “creating growth businesses.” Specifically, we are working to develop and expand businesses in areas such as organic EL materials, next-generation display materials, and photoelectric conversion materials that enable high-speed data communication. In particular, we are advancing an initiative aimed at technological development and mass production of solid electrolytes—key materials for all-solid-state batteries—with the goal of establishing this as a core business that underpins our growth strategy.

• Solid electrolytes that we utilize
Sulfur components, a byproduct of the petroleum product manufacturing process, are used in the base material. Idemitsu was among the first to discover the usefulness of sulfur components in the mid-1990s, and through our technological capabilities cultivated over many years, we have succeeded in developing solid electrolytes.

• Technological development for the mass production of solid electrolytes
The project has been adopted as one of the "Green Innovation Fund Projects / Development of Next Generation Storage Batteries and Next Generation Motors" by NEDO (New Energy and Industrial Technology Development Organization).

• Employee interview (Lithium Battery Material Department)
“Solid electrolytes,” key materials for all-solid-state batteries. This is an interview with members of the Lithium Battery Material Department, who are tackling the development and mass production of “materials” that do not yet exist in the world.

• Press release: Final Investment Decision and Construction Start for Large Pilot Facility for Solid Electrolytes (All-Solid-State Battery Materials) (January 29, 2026)

– Contact for Inquiries on this subject –

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