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In this demonstration, we will be conducting verification in various operation modes with the aim of evaluating the performance of the system, acquiring operational know-how on how to operate megawatt-class PEM water electrolyzers, as well as know-how on coordinated operations between renewable energy sources, methanation systems, and hydrogen ...

Sumitomo Corporation plans to deliver a 2.0 MW-class water electrolyser, with its hydrogen discharge pressure adjusted from the product's standard specification of 2 MPa to less than 1 MPa to comply with Japanese domestic regulations, to Tokyo Gas Yokohama Techno Station in June 2022 and start a joint demonstration of the electrolyser.

The government of Japan has approved the development of a megawatt-scale tidal energy project offshore Goto Islands as part of the country's drive to decarbonize its energy system by using innovative offshore renewable ...

Toshiba has been conducting research and development of superconducting technology applications for nearly half a century and has released its own two megawatt-class superconductivity motor prototype for mobility applications in June 2022. The Airbus Tech Hub Japan was announced in May 2024.

Japan-based IHI announced that Japan's New Energy and Industrial Technology Development Organization (NEDO) has chosen the company's initiative for electric power control and thermal and air management system technology development for the Next-Generation Aircraft Development Project under NEDO's Green Innovation Fund program.

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Japan's government has selected four research themes for funding support under a program to develop hydrogen-electric propulsion technologies for next-generation commercial aircraft with the ...

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# Japan megawatt technologies

Goto Islands as part of the country's drive to decarbonize its energy system by using innovative offshore renewable energy technologies.

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JAXA is working on a technology demonstration project called MEGAWATT from FY2023, aiming to take an initiative on the era of passenger jet fleet with megawatt-class electric hybrid propulsion systems by integrating key technologies from Japanese industries.

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