



# Japan smart energy cluster

Are smart grids a key measure of grid resiliency in Japan?

Latest update: August 2022 -- Grid stability has traditionally been one of the top priorities in Japan, and smart grids are considered a key measure that can contribute to grid resiliency.

What is Japan's Smart Community Industrial Policy?

Japan's smart community industrial policy aims to reshape the energy economy rather than merely swap solar and other green energy for coal, nuclear, and other brown energies. The policy includes a shift away from reliance on the conventional power grid and other sprawling and vulnerable critical infrastructure.

Why does Japan need a smart community distributed energy solution?

The smart community distributed energy solution is also attractive because Japan has a wealth of underground infrastructure corridors for communication cables and other critical infrastructure. The replacement of thick conventional communication cables with thin fiber-optic wires left considerable unused space in these utility corridors.

Are smart communities a priority in Japan's infrastructure export strategy?

The evidence thus suggests that smart community and associated exports are increasingly prioritized in Japan's infrastructure export strategy. A further consequence of the 3-11 disaster is greater subnational government and popular support for energy alternatives and smart communities.

Why does Japan need a smart energy system?

The grim facts on demography give Japan powerful incentives to plan communities that are sustainable and resilient. Extreme dependence on conventional energy provides yet another incentive to stress smart and distributed solutions.

How can Japan bolster local government resilience through smart energy systems?

This objective reflects an expanding policy of bolstering local government resilience through smart energy systems and their capacity to exploit local energy resources ( METI, 2016 ). Furthermore, Japan's overall policy integration on smart communities is achieved within the National Resilience Plan (NRP).

Grid stability has traditionally been one of the top priorities in Japan, and smart grids are considered a key measure that can contribute to grid resiliency. In 2022, the Japanese government started working with the IEC standard called the Smart Energy Grid Architecture Model (SGAM), as a model for a three-dimensional framework that enables ...

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Recently, smart communities are heeded to in Japan as a solution to community issues. To properly evaluate the underlying concept, it is necessary to analyze smart cities in terms of local energy and environmental aspects, as well as disaster resilience.

A small town in Chiba Prefecture has created a microgrid--a decentralized electric power system--utilizing locally produced natural gas and solar energy. This innovation exemplifies how regional energy diversification can enhance the resilience of local communities throughout Japan.

ADD TO CALENDAR 6/18/2025 9:00:00 AM 6/20/2025 6:00:00 PM Eastern European Time Japan Energy Summit & Exhibition Japan Energy Summit & Exhibition is the gateway for the global community to connect with Japan's energy value chain. Returning to Tokyo Big Sight from 18 - 20 June 2025, the event will bring together decision-makers, policymakers, innovators, ...

Smart Energy Week gathers a full range of renewable energy technologies such as hydrogen and fuel cells, solar power, rechargeable batteries, smart grids, wind power, biomass, zero-emission thermal power generation, etc. Smart Energy Week is an exhibition where the latest technologies, information, and people gather to accelerate business in ...

With nearly 70,000 professional visitors and close to 1500 exhibitors, the fair is one of the biggest Green Technology events in Japan. Sectors of interest at the Smart Energy Week are hydrogen, batteries, photovoltaics, smart-grid, wind power, and biomass, while the focus at the Decarbonisation Expo is on carbon-zero solutions in general.

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In order to make the smart energy transition a reality, 19 projects came together under the #SmartEnergyCluster to mutually support each other by building on and multiplying all their results. The 19 projects have the common aim to develop, conceptualise and deploy new business models and concepts which fully tap the economic value and the [...]

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--Latest update: October 2024 -- From the early 2000s to 2020, the Japanese Ministry of Education, Culture, Sport, Science and Technology (MEXT) and the Ministry of Economy, Trade and Industry (METI) actively promoted the "Knowledge Cluster Initiative" and the "Industrial Cluster Project" as a means to reinforce international competitiveness and regional ...

The 2015 NSS paid careful attention to smart and distributed energy because its design team included Kashiwagi as its first-ever energy expert and he made a point of emphasizing smart communities and smart energy systems (Kashiwagi, 2015). Considering Japan's vulnerability when it comes to energy, it is rather surprising that its previous ...

Japan's Largest Exhibition for Green Transformation Solutions for Businesses. Net-zero solutions and technologies for the circular economy are showcased and corporate management executives and those who are in charge of ESG promotion visit. ... SMART ENERGY WEEK is Held 3 Times a Year

In order to make the smart energy transition a reality, 19 projects came together under the #SmartEnergyCluster to mutually support each other on developing, conceptualising and deploying new business models and concepts which fully tap the economic value and the wider benefits of integrated services. After one year and a half from the establishment of [...]

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A planned residential, resilient energy development project subsidized by Japan's Ministry of Economy, Trade and Industry (METI), Smart City Shioashiya Solar-Shima is expected to serve as a proving ground and a showcase for smart city, town and village technologies, as well as a national model for local sustainable energy production and ...

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