

## Kongres Container

# Japan s container-type power generation intelligence



## Overview

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Does generative AI affect Japan's electricity demand?

15 November 2024 —Mitsubishi Research Institute, Inc. published the English version of its report on the impact of rapidly spreading generative AI on Japan's electricity demand. The report includes recommendations for the proper policies and solutions to sustain both AI uptake and sufficient electricity.

How generative AI will affect Japan's power supply in 2040?

Better power efficiency, and in turn development of related technologies, will be required to maintain utilization of generative AI amid power concerns. Considering domestic power supply margins cited in current power-facility plans, 6 Japan's total electricity demand in 2040 should be kept below 1.5 times today's level.

What can Japan do about generative AI?

Japan has two things to do here: develop software technologies that help generative AI perform with less electricity, and leverage its prowess in innovating semiconductor and peripheral technologies. 1. Develop more energy-efficient generative AIs Growing concerns over power constraints is fueling interest in AIs that are more frugal.

Can generative ai transform power constraints into game-changing opportunities in Japan?

In Japan, too, ICT players and those in power generation and delivery will have to work together to make things happen in this area. Deep-pocketed big tech players are at the forefront of generative AI, but Japanese companies have plenty potential to transform power constraints into game-changing opportunities.

Could generative Ai be a catalyst for Japan's digital industry?

Deep-pocketed big tech players are at the forefront of generative AI, but Japanese companies have plenty potential to transform power constraints into game-changing opportunities. And this in turn could very well become a catalyst for recovering the international competitiveness of Japan's digital industries.

How can Japan transform its power-constraints challenge into a game-changing challenge?

Key will be technical development of hardware and software that will enhance power efficiency. Japan, with its advanced technology in these areas, cannot afford to miss this golden chance to transform its power-constraints challenge into something game changing.

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