

# The 2023-2028 Outlook for Power Electronics in Japan

<https://marketpublishers.com/r/20A903433019EN.html>

Date: November 2022

Pages: 234

Price: US\$ 595.00 (Single User License)

ID: 20A903433019EN

## Abstracts

This study covers the latent demand outlook for power electronics across the prefectures and cities of Japan. Latent demand (in millions of U.S. dollars), or potential industry earnings (P.I.E.) estimates are given across over 1,000 cities in Japan. For each city in question, the percent share the city is of its prefecture and of Japan as a whole is reported. These comparative benchmarks allow the reader to quickly gauge a city vis-à-vis others. This statistical approach can prove very useful to distribution and/or sales force strategies. Using econometric models which project fundamental economic dynamics within each prefecture and city, latent demand estimates are created for power electronics. This report does not discuss the specific players in the market serving the latent demand, nor specific details at the product level. The study also does not consider short-term cyclicalities that might affect realized sales. The study, therefore, is strategic in nature, taking an aggregate and long-run view, irrespective of the players or products involved.

In this report we define the sales of power electronics as including all commonly understood products falling within this broad category, irrespective of product packaging, formulation, size, or form. Companies participating in this industry include ABB, Alstom, Analog Devices, Artesyn, Avnet, Bosch Rexroth, Fairchild Semiconductor, Freescale Semiconductor, Fuji Electric, GaN Systems, Hitachi, Infineon Technologies, International Rectifier, KEMET, Littelfuse, Maxim Integrated, Microchip, Microsemi, Mitsubishi Electric, NXP Semiconductor, ON Semiconductor, Power-One, Pulse, Qualcomm, Renesas Electronics, Rockwell Automation, ROHM, Semikron, Siemens AG, STMicroelectronics, SynQor, Taiwan Semiconductors Manufacturing Company, Texas Instrumentation, Inc., The Bergquist Company, Toshiba, Transphorm, UnitedSiC, Vishay Intertechnology, and WOLFSPEED, A CREE Company. In addition to the sources indicated, additional information available to the public via news and/or press releases published by players in the industry was considered in defining and calibrating this category. All figures are in a common currency (U.S. dollars, millions) and are not

adjusted for inflation (i.e., they are current values). Exchange rates used to convert to U.S. dollars are averages for the year in question. Future exchange rates are assumed to be constant in the future at the current level (the average of the year of this publication's release in 2022).

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