

Bibliography

- Anderson, A., & Rezaie, B. (2019). Geothermal technology: Trends and potential role in a sustainable future. *Applied Energy*, 248, 18-34. <https://doi.org/10.1016/j.apenergy.2019.04.102>
- ANRE (Japan). (2024, April 12). Electricity demand in Japan from fiscal year 2013 to 2022 (in 1,000 gigawatt hours) [Graph]. *Statista*. Retrieved July 30, 2024, from <https://www-statista-com.ezproxy.ugm.ac.id/statistics/750101/japan-electricity-demand/>
- Bloomquist, R. G. (2006). *Economic benefits of mineral extraction from geothermal brines*. Washington State University Extension Energy Program. Retrieved from <https://pangea.stanford.edu/ERE/pdf/IGAstandard/Russia/MEGB-2006/20Bloomquist.pdf>
- Business Insider. (n.d.). Coal price. Retrieved December 12, 2024, from <https://markets.businessinsider.com/commodities/coal-price>
- Business Insider. (n.d.). Natural gas price. Retrieved December 12, 2024, from <https://markets.businessinsider.com/commodities/natural-gas-price>
- Business Insider. (n.d.). Oil price. Retrieved December 12, 2024, from <https://markets.businessinsider.com/commodities/oil-price?type=wti>
- CSIRO. (2022). What are the sources of carbon dioxide in the atmosphere? Retrieved from <https://www.csiro.au/en/research/environmental-impacts/climate-change/Climate-change-QA/Sources-of-CO2>
- David, F. R., David, F. R., & David, M. E. (2023). *Strategic management: A competitive advantage approach: Concepts and cases* (17th ed.). Harlow: Pearson Education.

EBTKE ESDM. (2023). *Pedoman efisiensi biaya pengeboran sumur panas bumi*.
Direktorat Jenderal EBTKE.

e-Stat (Japan). (January 31, 2025). Labor force in Japan from 1973 to 2024 (in
millions) [Graph]. In *Statista*. Retrieved March 15, 2025, from [https://www-
statista-com.ezproxy.ugm.ac.id/statistics/612396/japan-total-labor-force/](https://www-statista-com.ezproxy.ugm.ac.id/statistics/612396/japan-total-labor-force/)

Gehring, M., & Loksha, V. (2000). Geological controls on geothermal resources
for power generation. *Energy Policy*, 28(3), 207–222.
[https://doi.org/10.1016/S0301-4215\(00\)00081-1](https://doi.org/10.1016/S0301-4215(00)00081-1)

Global Geothermal Alliance. (n.d.). *Japan: Geothermal energy development
overview*. Retrieved from [https://globalgeothermalalliance.org/Regions-and-
countries/Countries/Japan](https://globalgeothermalalliance.org/Regions-and-countries/Countries/Japan)

Hill, C. W. L. (2022). *International business: Competing in the global marketplace*
(14th ed.). McGraw-Hill.

Hymans, J. E. C. (2021). Losing steam: Why does Japan produce so little
geothermal power? *Social Science Japan Journal*, 24(1), 45–65.
<https://doi.org/10.1093/ssjj/jyaa040>

Hymans, J. E. C., & Uchikoshi, F. (2022). To drill or not to drill: Determinants of
geothermal energy project siting in Japan. *Environmental Politics*, 31(3),
407–428. <https://doi.org/10.1080/09644016.2021.1918493>

Imamura, Y. (2021). How Japan can treble growth in geothermal power: A study
focusing on the importance of the local community in comparison with
success in New Zealand. Retrieved from [http://www.geothermal-
energy.org/pdf/IGAstandard/WGC/2020/08009.pdf](http://www.geothermal-energy.org/pdf/IGAstandard/WGC/2020/08009.pdf)

IMF. (October 22, 2024). Japan: Real gross domestic product (GDP) growth rate
from 2019 to 2029 (compared to the previous year) [Graph]. In *Statista*.

Retrieved March 01, 2025, from <https://www-statista-com.ezproxy.ugm.ac.id/statistics/263607/gross-domestic-product-gdp-growth-rate-in-japan/>

InfluenceMap. (n.d.). *Feed-in Tariff (FIT) & Feed-in Premium (FIP) in Japan*. Retrieved from [<https://japan.influencemap.org/policy/Feed-in-tariff-FIT-Feed-in-premium-FIP-5353>]([https://japan.influencemap.org/policy/Feed-in-tariff-FIT-Feed-in-premium-FIP-5353#:~:text=The%20Feed%20in%20Premium%20\(FIP,price%20as%20under%20the%20FIT.\)](https://japan.influencemap.org/policy/Feed-in-tariff-FIT-Feed-in-premium-FIP-5353#:~:text=The%20Feed%20in%20Premium%20(FIP,price%20as%20under%20the%20FIT.)))

Institute for Sustainable Energy Policies (ISEP). (2024). *2023 Share of Electricity from Renewable Energy Resources in Japan [Preliminary Report]*. Retrieved from <https://www.isep.or.jp/en/1529/>

International Energy Agency (IEA). (n.d.). *Japan: Energy mix*. Retrieved from <https://www.iea.org/countries/japan/energy-mix>

International Energy Agency (IEA). (2024). *The future of geothermal energy*. Available at: IEA Website

International Renewable Energy Agency (IRENA). (2018). *Unlocking geothermal potential in Japan through small-scale generation*. Retrieved from <https://www.irena.org/news/articles/2009/Apr/Unlocking-geothermal-potential-in-Japan-through-small-scale-generation>

IRENA and IGA (2023), *Global geothermal market and technology assessment*, International Renewable Energy Agency, Abu Dhabi; International Geothermal Association, The Hague.

JAERO. (2024, March 7). *Energy sources that are most approved of in Japan as of October 2023 [Graph]*. *Statista*. Retrieved July 30, 2024, from <https://www->

statista-com.ezproxy.ugm.ac.id/statistics/1199125/japan-energy-sources-supported/

Japan for Sustainability (JFS). (2014). *Japan's geothermal resources and their potential for power generation*. Retrieved from https://www.japanfs.org/en/news/archives/news_id035043.html

Japan Organization for Metals and Energy Security (JOGMEC). (n.d.). Collection and provision of information: Geothermal. Retrieved from https://www.jogmec.go.jp/english/geothermal/geothermal_10_000005.html#:~:text=As%20of%202022%2C%20there%20are,total%20capacity%20of%20110.2MW

Jolie, E., et al. (2021). Geological controls on geothermal resources for power generation. *Nature Reviews Earth & Environment*, 2, 332–347. Available at: Nature Website

Kristmannsdóttir, H., & Ármannsson, H. (2003). *Environmental Aspects of Geothermal Energy Utilization*. *Geothermics*, 32(3), 451-461. DOI: 10.1016/S0375-6505(03)00052-X.

Lee, C.-C. (2005). The causality relationship between energy consumption and GDP in G-11 countries revisited. *Energy Policy*, 34(7), 1086–1093. <https://doi.org/10.1016/j.enpol.2005.04.023>

Macrotrends. (n.d.). *Japan rural population statistics*. Retrieved from <https://www.macrotrends.net/global-metrics/countries/jpn/japan/rural-population>

Markets Insider. (2024, July 25). Oil price. Retrieved July 30, 2024, from <https://markets.businessinsider.com/commodities/oil-price?type=wti>

Maxinomics. (n.d.). *Japan labor cost index*. Retrieved from
<https://www.maxinomics.com/japan/labor-cost-index>

METI. (2021). Green Growth Strategy through achieving carbon neutrality in 2050.
Retrieved from
[https://www.meti.go.jp/english/policy/energy_environment/global_warmin
g/ggs2050/pdf/ggs_full_en1013.pdf](https://www.meti.go.jp/english/policy/energy_environment/global_warmin
g/ggs2050/pdf/ggs_full_en1013.pdf)

METI (Japan). (2021, December 28). Levelized cost of energy (LCOE) per kilowatt
hour of major power generation technologies in Japan in 2020, by type (in
Japanese yen) [Graph]. In *Statista*. Retrieved February 28, 2025, from
[https://www-statista-com.ezproxy.ugm.ac.id/statistics/1240806/japan-lcoe-
power-generation-technologies-by-type/](https://www-statista-com.ezproxy.ugm.ac.id/statistics/1240806/japan-lcoe-
power-generation-technologies-by-type/)

METI. (2024, March 03). Japan's Strategy to Expand Renewable Energy
Contributes to the World's Efforts toward Tripling Renewable Energy.
Retrieved from
https://www.enecho.meti.go.jp/en/category/special/article/detail_198.html#:~:text=One%20of%20the%20fields%20where,FY2030%20is%2036%2D38%25.

Ministry of Economy, Trade and Industry. (2024, March 19). METI sets the
surcharge rate for FY2024, the renewable energy purchase prices for FY2024
onward, and other details relating to the FIT and FIP schemes. Retrieved from
https://www.meti.go.jp/english/press/2024/0319_001.html

Ministry of Economy, Trade and Industry (METI). (2021). Outline of strategic
energy plan. Retrieved from
https://www.enecho.meti.go.jp/en/category/others/basic_plan/pdf/6th_outline.pdf

myNZTE. (2024). Opportunities in Japan's geothermal energy sector. Retrieved from <https://my.nzte.govt.nz/article/opportunities-in-japans-geothermal-energy-sector>

Net Zero Climate. (2022, September 22). What is net zero? Retrieved from <https://netzeroclimate.org/what-is-net-zero-2/>

Nikkei. (July 31, 2019). Market capitalization of the regional electric power companies in Japan as of July 2019 (in billion Japanese yen) [Graph]. In *Statista*. Retrieved February 19, 2025, from <https://www.statista.com/statistics/1033745/japan-market-capitalization-epcos/>

Nikkei. (November 9, 2024). Leading electric power companies in Japan as of March 2024, by total assets (in trillion Japanese yen) [Graph]. In *Statista*. Retrieved February 19, 2025, from <https://www.statista.com/statistics/868685/leading-companies-electricity-industry-by-total-assets-japan/>

Ohbayashi, M. (2022). Japan's transition toward a renewable energy future. *The National Bureau of Asian Research (NBR)*. Retrieved from <https://www.nbr.org/publication/japans-transition-toward-a-renewable-energy-future/>

OilPrice. (2024). *Japan's TEPCO looks to make hydrogen with geothermal power*. Retrieved from <https://oilprice.com/Latest-Energy-News/World-News/Japans-TEPCO-Looks-to-Make-Hydrogen-with-Geothermal-Power.html>

Parboteeah, K. P., & Cullen, J. B. (2009). *International business: Strategy and the multinational company* (1st ed.). Routledge. <https://doi.org/10.4324/9780203879412>

Pertamina Geothermal Energy. (2023). *Pertamina Geothermal Energy: 2023 annual report*. Retrieved from <https://www.pge.pertamina.com/id/laporan>

Pertamina Geothermal Energy. (2024). Pasca listing PGE area Lahendong dikunjungi Dubes Jepang untuk studi bersama pengembangan hidrogen hijau. Retrieved from <https://www.pge.pertamina.com/id/siaran-pers/pasca-listing-pge-area-lahendong-dikunjungi-dubes-jepang-untuk-studi-bersama-pengembangan-hidrogen-hijau>

Porter, M. E. (1990). The competitive advantage of nations. *Harvard Business Review*, **68**(2), 73-93.

Porter, M. E. (1998). *Competitive strategy: Techniques for analyzing industries and competitors*. Free Press.

Renewable Energy Institute. (March 9, 2021). Levelized cost of energy (LCOE) per kilowatt hour of geothermal energy in Japan in 2020 with forecasts until 2050 (in Japanese yen) [Graph]. In *Statista*. Retrieved March 01, 2025, from <https://www-statista-com.ezproxy.ugm.ac.id/statistics/1240833/japan-lcoe-geothermal-energy/>

Richter, A. (2023, January 10). ThinkGeoEnergy's top 10 geothermal countries 2022: Power generation capacity (MW). *Think GeoEnergy: Geothermal Energy News*. Retrieved from <https://www.thinkgeoenergy.com/thinkgeoenergys-top-10-geothermal-countries-2022-power-generation-capacity-mw/>

Ritchie, H., & Roser, M. (2024, January 22). CO2 emissions. *Our World in Data*. Retrieved from <https://ourworldindata.org/co2-emissions>

- Sanyal, S. K. (2004). *Sustainability and economic assessment of geothermal resources*. Stanford Geothermal Workshop. Retrieved from <https://pangea.stanford.edu/ERE/pdf/IGAstandard/SGW/2004/Sanyal.pdf>
- Shortall, R., & Kharrazi, A. (2017). Cultural factors of sustainable energy development: A case study of geothermal energy in Iceland and Japan. *Renewable and Sustainable Energy Reviews*, 79, 101–109. <https://doi.org/10.1016/j.rser.2017.05.029>
- Soltani, M., et al. (2021). Environmental, economic, and social impacts of geothermal energy systems. *Renewable and Sustainable Energy Reviews*, 140, 110750. Available at: ScienceDirect
- Statista. (December 2, 2024). Total consumption of electric power in Japan from 2001 to 2029 (in million kWh) [Graph]. In *Statista*. Retrieved February 18, 2025, from <https://www.statista.com/forecasts/1151399/electricity-consumption-forecast-in-japan>
- Statistics Bureau of Japan. (November 22, 2024). Import price index on Japanese yen basis for petroleum, coal and natural gas in Japan from 2019 to 2023 [Graph]. In *Statista*. Retrieved March 01, 2025, from <https://www-statista-com.ezproxy.ugm.ac.id/statistics/708289/japan-import-price-index-yen-basis-petroleum-coal-and-natural-gas/>
- Tabuchi, H. (2024). Geothermal power, cheap and clean, could help run Japan. So why doesn't it? *New York Times*. Retrieved from <https://www.nytimes.com/2023/03/22/climate/japan-hot-springs-geothermal-energy.html>
- The Geothermal Research Society in Japan (grsj). (2020). Geothermal energy in Japan. Retrieved from https://grsj.gr.jp/english/gej/?l=en_US

ThinkGeoEnergy. (2021). *Japan geothermal energy report*. Retrieved from <https://www.thinkgeoenergy.com/wp-content/uploads/2021/05/Japan-short.pdf>

ThinkGeoEnergy. (2023). *Appi Geothermal Power Plant in Iwate, Japan starts commercial operations*. Retrieved from <https://www.thinkgeoenergy.com/appi-geothermal-power-plant-in-iwate-japan-starts-commercial-operations/>

ThinkGeoEnergy. (2024). *Kyuden to hold Japan's first wholesale geothermal power auction*. Retrieved from <https://www.thinkgeoenergy.com/kyuden-to-hold-japans-first-wholesale-geothermal-power-auction/>

ThinkGeoEnergy. (2024). *Office buildings in Tokyo, Japan to be supplied with geothermal power thru offsite PPA*. Retrieved from <https://www.thinkgeoenergy.com/office-buildings-in-tokyo-japan-to-be-supplied-with-geothermal-power-thru-offsite-ppa/>

Thompson, A. A., Peteraf, M. A., Gamble, J. E., & Strickland, A. J. (2022). *Crafting and executing strategy: The quest for competitive advantage concepts and cases* (20th ed.). New York: McGraw Hill.

Tokyo Electric Power Company (TEPCO). (n.d.). *Renewable energy facilities*. Retrieved from <https://www.tepco.co.jp/en/hd/about/facilities/renewable-e.html>

Tokyo Electric Power Company (TEPCO). (2023, June 30). *TEPCO's initiatives in renewable energy development*. Retrieved from https://www.tepco.co.jp/en/rp/about/newsroom/press/archives/2023/20230630_01.html

- Tokyo Metropolitan Government. (n.d.). Tax information. Retrieved December 12, 2024, from https://www.tax.metro.tokyo.lg.jp/documents/d/tax/4_2
- World Nuclear Association. (2024). Carbon dioxide emissions from electricity. Retrieved from <https://world-nuclear.org/information-library/energy-and-the-environment/carbon-dioxide-emissions-from-electricity>
- XE. (n.d.). Currency charts: JPY to USD. Retrieved December 12, 2024, from <https://www.xe.com/currencycharts/?from=JPY&to=USD>
- Xia, T., Ji, Q., Zhang, D., & Han, J. (2019). Asymmetric and extreme influence of energy price changes on renewable energy stock performance. *Journal of Cleaner Production*, 241, 118338. <https://doi.org/10.1016/j.jclepro.2019.118338>
- Yasukawa, K. (2021). Geothermal Energy Use and Its Related Technology Development in Japan. *Journal of Energy Resources Technology*, 143(10), 100802.