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| Book Name: | [**Geography, Earth Science and Environment: Research Highlights**](https://www.bookpi.org/bookstore/product/geography-earth-science-and-environment-research-highlights-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4632** |
| Title of the Manuscript: | **Forecasting Installation Capacity for the Top 10 Countries Utilizing Geothermal Energy by 2030** |
| Type of the Article | **Book Chapter** |

**Special note:**

# A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal. Thermo, 2(4): 334–351, 2022.**

**Available:** [**https://doi.org/10.3390/thermo2040023**](https://doi.org/10.3390/thermo2040023)

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | The manuscript brought to light the essential information about future geothermal power plant installations within the top 10 geothermal energy producer countries to assist researchers and policymakers in their energy planning activities.  The study will also assist experts in science and engineering fields to observe sustainability trends in energy development and expand geothermal energy deployment knowledge which supports worldwide efforts to decrease carbon emissions and shift toward renewable power sources.  Academics and industry experts can utilized the findings of this research to guide their work in connections with future energy demands and geothermal energy project implementation.  The findings of this research will serve as good tools for further research in the of science, engineering and environmental sustainability. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | 1. A projection of geothermal energy installation capacity conducted for the top 10 countries using geothermal power in the year 2030 2. A model-based outlook on geothermal energy installation capacity across the 10 leading countries in Geothermal Energy Utilization by 2030 |  |

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| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | The abstract is comprehensive for it consist of background knowledge of the research purpose, aim and objective and the methodology but the findings of the Research was not summarized by using numerical value to briefly analyzed the result of the research.  The last line of the abstract can be written thus; The results reveal the 2030 geothermal energy installation capacity rankings from the United States having the larger capacity of 3.925 GW to Japan having the smaller capacity of 0.481 GW. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The Research is scientifically correct for it based on scientific theories, principles, formulas and methodology of forecasting. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The references are sufficient and recent but reference number *16 Ju-Long, D. Control* ***1982***,  *24 Hsu, L.-C* ***2003***, *25 Wang, Y et al* ***2010*** and *30 Akay, D.; Atak, M* ***2007*** are not really recent for they well more than a decade works. |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | Yes, the English language is quality and suitable for scholarly communications purpose. |  |
| **Optional/General** comments | The study applied an improved grey prediction model (IGM (1,1)) to perform the annual geothermal energy installation capacity forecast for the top 10 countries based on installed power generation capacity evaluated in the time past precisely at the end of 2021  Established with suitable literatures references, theories and mathematical equations and concluded with good contributions to the bank of knowledge especially in geothermal energy generation and shown that improved grey prediction model (IGM) is more accurate than grey prediction model (GM).  The article only needs minor revision before publishing. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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