

MEMORANDUM

To:

From: Michael Brodskiy

Subject: Research Synthesis and Annotated Bibliography Peer Review

Date: Wednesday, May 29, 2024

This document was quite an interesting read! I particularly enjoyed the juxtaposition of the energy center size requirements to the country of Ireland, as it added a clear sense of urgency by putting the problem into perspective.

Looking at the annotated bibliography, all of the sources seem to be directly pertinent to the topic at hand. I would, however, recommend that, when summarizing the argument of a publication, try starting with something along the lines of "the document argues . . ." or "this publication considers . . ." instead of more mundanely stating "this paper is important because . . ." In doing so, it more clearly differentiates your own synthesis and opinions regarding the document from the author's findings. There are also a few typos strewn throughout like: "University of Massachusetts" and "minimise" to "minimize" (there may be others, so please consider reviewing once again). Other than this, I commend you for using quality sources and synthesizing them to find interesting solutions to a relevant problem.

As for the substance of the paper, you do a great job of defining acronyms before first use, like artificial intelligence (AI) and machine learning (ML). Oftentimes, technical writing novices forget to do this. Reading the entirety of the paper, I now understand that not only is AI and ML already creating a huge environmental impact with data centers, but this strain is also increasing; however, the future does seem optimistic, as the heat produced as a byproduct may be used for a specific purpose (like heating cities) by implementing heat pumps, rather than being released into the environment. The document does seem to perform quite a thoughtful synthesis; however, I would suggest one major update: beware of run-on sentences! There were many throughout, and, thus, consider proofreading and adding in more punctuation, when necessary.

In a more general scope, I would recommend that, in addition to using IEEE citation format, you would use an IEEE document format (an example can be found here). Using this would not only be beneficial for your future endeavors, but will also improve the overall readability of your exhibition. Also, a small fix would be to indent the first paragraph (to maintain conformity with the other paragraphs). Finally, I would also suggest getting rid of some of the citations. In general, when citing a work, it is unnecessary to re-cite it when continuing with the same thought (unless multiple documents are cited or a different document is cited before continuing).

Great work overall!