# Cover letter to the Editor

Manuscript title: Spatiotemporal Analysis of Public Sentiment on Low-Carbon Energy Sources

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Type of Manuscript: Research Article

This manuscript is appropriate for *Renewable Energy Focus* as we were interested in applying a novel natural language processing (NLP) algorithm (known as VADER) to analyse public perception data from Twitter towards low-carbon energy (LCE) sources. The algorithm is a step up from other NLP algorithms in that it is specifically designed for social media and can factor in emojis, punctuations, capitalisations, and repeated words via heuristics. The technique we are applying will be an important bridge between social science, policy, modelling and analysis and applied data analytics research as well.

As practicing energy professionals, we have been interested in understanding what the currently held view is on LCE, primarily as recent geopolitical events and supply shocks have sent oil and gas prices to all-time highs. We were interested in determining what people were saying given this fact, and if that in any way shaped how countries were moving forward LCE in addressing climate concerns.

We have realized, through this work, that data science and analytics applied in a manner which lets one collect large amounts of data helps to cultivate a more holistic understanding of socio-political and economic drivers within the renewable energy landscape. The results can help explain strategies at the country level regarding the adoption of LCE. This makes our work important and the journal the appropriate avenue to publish it.

The manuscript has been checked by a native English speaker with expertise in the field of energy. In this authors opinion, this work would appeal to both a popular audience and scientific audience.

The manuscript has not been previously rejected by any Elsevier journal. The manuscript, or its contents in some other form, has not been published previously by the author and is not under consideration for publication in another journal at the time of submission. No graphics need be published in color, and the manuscript does not have any supporting information and/or Review-Only Material.

Yours sincerely,

Munish Kumar

May 18, 2023