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Novel models for varried term-dependent renewable energy transition decision-making in Italy and Ghana

The world has reached a tipping point that all countries are encouraged to implement radical emission-mitigation policies (EMPs) to halve global greenhouse gases (GHGs) by 2030. Existing EMPs are skewed towards the energy sector due to the pivotal role of energy-related emissions in global GHGs. For least-cost, practical, and sustainable national transition pathways, recurrent energy-related decisions are required, but are rare, to the best of our knowledge. Here, we propose and deploy big data-related, real-time to long-term, least-cost, representative, practical, and sustainable energy transition decision-making for Italy and Ghana. Preliminary results show the optimal process achieves discovery, insight, precision, and traceability scores of 100%, 100%, 98%, and 98%, respectively. This is an ongoing research and further analysis are on course to help deploy a complete tool, upon completion, for term-dependent renewable energy transition decision-making for the Italy and Ghana.

Keywords: climate change, least-cost renewable energy transition, volatility in energy systems, volatility-consistent renewable energy transition, real time, process mining, eigenvalues

Biography

Elizabeth Aidoo is the research assistant officer at Earth Care Ghana at Adum Kumasi in Ghana. She has strong research background in areas such as environmental science, renewable energy and climate change in developing countries. In recent years, Mrs. Aidoo has been able to work with United Nations environmental awareness creation within the Kumasi Municipality. Her consistent communication and Logical skills, research concerned, self-motivated, stretchy and a cooperative team builder with challenges are Mrs Aidoo's core competencies. As part of her achievements, She has over the years co-authored Dr. Mark Agyei-Sakyi as a co-author with three papers for publications (accepted) awaiting publications in top-tier Zone A Journals in the field of environmental science.

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