

Multi-Dimensional Energy Resource Evaluation in Climate Change beyond the 21st Century

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Abstract : The decarbonisation of the energy sector beyond the 21st century is akin to establishing morally responsible mechanisms that can propagate sustainable livelihoods (Denina et al., 2021). It implies that Kuwait undertakes a re-evaluation of energy generation gaps so as to tap the potential to reduce overreliance on fossil fuel (Si et al., 2020) and align with global views on sustainable energy generation and consumption.(Herrero, Pineda, Villar, & Zambrano, 2020). Without the economic pressure to switch to alternative sources of energy, Kuwait requires a multi-dimensional analysis the energy policies and sources of energy other than fossil fuels (Alsaad, 2021). Currently, Kuwait has an energy system that is highly skewed towards fossil fuels (Alsaad, 2021); hence, the reliance on burning fossil fuels forms part of the core elements of the general inefficient energy systems that have negative consequences to global environmental and economic systems (Kang et al., 2020). This paper undertakes a detailed literature review on factors needed for the development of a framework for the multi-dimensional energy resource analysis in Kuwait. The framework aims aligning the current energy policies in Kuwait with the global decarbonisation drive, to promote sustainable energy strategies.

Keywords : decarbonisation, energy, fossil fuels, multi-dimensional analysis, sustainability

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