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The remainder of the paper is sectioned into five: Section 2 discusses renewable energy sources and sustainability and climate change, Section 3 elaborates on the various renewable energy sources and technologies, Section 4 elaborates on the renewable energy sources and sustainable development, Section 5 elaborates on challenges affecting ...

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The U.S. Energy Information Administration (EIA) defines a total of nine main energy sources [8], which all compete against each other and jointly define the energy sector's sustainability impact. Yet, the sustainability and especially the sustainable supply chain management (SSCM) literature is investigating the energy sources in silos [9, 10] rather than ...

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The selected work was directly related to the scope of the Renewable, Sustainable Energy Reviews (RSER) journal. During the conference activities, experts from all around the world in the subjects of: renewable energy, climate change, optimization, and economics presented and discussed the progress made in renewable energy sources, as well as ...

distinguish the review from prior similar efforts. First, given that energy consumers and end-users ultimately seek to satisfy demand or perceived needs for energy services (rather than, say, kilowatt-hours), an energy

services lens is applied to better understand and characterize the sustainable energy challenge [8].

Among these, wave energy stands out as a reliable energy source. Unlike other renewable alternatives, wave energy technologies are steadily progressing towards commercialization [13] and offering a consistent energy supply with a higher energy density of 2-3 kW/m<sup>2</sup> compared to the ~0.4-0.6 kW/m<sup>2</sup> of wind and ~0.1-0.2 kW/m<sup>2</sup> of solar ...

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It is crucial to take action to curb the adverse effects of human behavior on the environment. According to the International Energy Agency (IEA), with the rapid development of a secure and sustainable energy system with net-zero emissions, the proportion of new generation fuel and renewable energy keeps increasing [2].

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