(sustainable cities and communities), as renewable energy plants and sto- rage facilities can unintentionally encroach on cultural and heritage lands, especially sacred lands of First Nations ...

This review discusses the world"s energy needs, renewable energy technologies for domestic use, and highlights public opinions on renewable energy. A systematic review of ...

Energy is an indispensable and relevant resource for social and economic development [1].When seen as a sustainable asset, it is grounded in five sustainability dimensions: environmental, technical, social, institutional, and economic [7].This makes it possible to contemplate a holistic perspective within the scope of sustainable energy [8]. ...

Biomass has become a key contender in the race to find sustainable energy options, as we move toward a more environmentally friendly future. This extensive assessment explores the potential of biomass to transform the global energy landscape. We have examined different conversion technologies, including thermal technologies such as combustion and ...

According to Jacobson et al. [1], hindering global warming from rising above 1.5 °C will require reaching 80% zero-emissions energy by 2030 and 100% by 2050, and much of this should be achieved through the increased use of renewable energy.This, in turn, inspires a steadily growing literature on a range of questions concerning the geopolitical consequences ...

Pursuing sustainable development in the face of climate change and environmental degradation has led to a significant shift toward renewable energy sources. A dependable, affordable, and stable renewable energy source must meet almost any future energy need. This review explores the environmental impacts of various forms of renewable energy, ...

Investment in emerging renewable energy technologies is essential if the global energy sector is to transition from fossil-based toward zero-carbon by the second half of this century, limiting the impacts of climate ...

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To gain a better understanding of this issue, we analyzed the degree of alignment of seven aspects of the renewable energy production process with the Sustainable Development Goals (SDGs) and ...

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].

Renewable and Sustainable Energy Reviews. Volume 4, Issue 2, June 2000, Pages 157-175. ... That is why there is an intimate connection between renewable energy and sustainable development. Anticipated patterns of future energy use and consequent environmental impacts (focussing on acid precipitation, stratospheric ozone depletion and the ...

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 2 compared to the ~0.4-0.6 kW/m 2 of wind and ~0.1-0.2 kW/m 2 of solar ...

Renewable Energy Law and Policy Review, 7 (4) (2017), pp. 7-16, 10.4337/relp.2017.04.01. View in Scopus Google Scholar [48] ... Existing and recommended renewable and sustainable energy development in Nigeria based on autonomous energy and microgrid technologies. Renew Sustain Energy Rev, 75 ...

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Renewable energy resources will play an important role in the world"s future. The energy resources have been split into three categories: fossil fuels, renewable resources and nuclear resources [14].Renewable energy sources are those resources which can be used to produce energy again and again, e.g. solar energy, wind energy, biomass energy, geothermal ...

Moriarty, D. Honnery / Renewable and Sustainable Energy Reviews 16 (2012) 244-252 245 Table 1 Global primary energy projections, 2020-2100, in EJ. Organisation and year 2020 2030 2050 2100 BP (2011) [2] 565-635 600-760 NA NA EC (2006) [5] 570-610 650-705 820-935 NA EIA

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Investment in emerging renewable energy technologies is essential if the global energy sector is to transition from fossil-based toward zero-carbon by the second half of this century, limiting the impacts of climate change. 1 Many of these emerging technologies are based on a resource that surrounds us--the ocean. Although there are many forms of ocean energy ...

The use of renewable energy resources, such as solar, wind, and biomass will not diminish their availability. Sunlight being a constant source of energy is used to meet the ever-increasing energy need. This review discusses the world"s energy needs, renewable energy technologies for domestic use, and highlights public opinions on renewable energy. A ...

Over the last decade, supply chain management (SCM) in energy production was driven by economic, environmental, and social impacts, through shifting the economic focus into an overall sustainability focus [1, 2] stainable energy is a vital topic for many national and international organizations and companies and it is considered at the heart of the United ...

The renewable energy contribution in India is depicted in Fig. 1.Recently, evaluation of renewable energy sources, sustainability problems, and climate change mitigation, and their findings revealed that there is a heated discussion over the need for energy and associated services to satisfy the demands of human, social, and economic development, as well as health.

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A sustainable energy future is within reach due to the development of green buildings, green energy and power use in industry, green transportation, decreased costs of renewable energy, increased energy efficiency and ...