

Renewable And Sustainable Energy Reviews

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Nussbaumer et al. / Renewable and Sustainable Energy Reviews 16 (2012) 231–243 233 Table 1 Broad categories of sustainable development and energy metrics with examples. Category Example Initiator Reference Single indicators International poverty line (\$1 a day) The World Bank Chen and Ravallion [39] Set of individual indicators, or ' dashboard ' Millennium Development Goals Indicators UN ...

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Renewable and Sustainable Energy Reviews is a peer-reviewed scientific journal covering research on sustainable energy. It is published in 12 issues per year by Elsevier and the editor-in-chief is Aoife M. Foley (Queen ' s University Belfast). According to the Journal Citation Reports, the journal has a 2020 impact factor of 12.110. The journal considers articles based on the themes of energy ...

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If energy were money, a renewable source of income is one that would recur, like a paycheque, while a non-renewable source would be non-repeating, like receiving an inheritance. A sustainable source of money might be one that could fund a desired standard of living for an extended period of time, while a non-sustainable source of income would be small and quickly used up.

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Renewable and Sustainable Energy Reviews 66 (2016) 476–486. undertaken by the Shell Foundation, within the most energy de-ficient regions there are a lack of businesses which are viable, which achieve scale and which develop holistic solutions to tackle poverty [3]. Inhibiting factors include: appropriate design, after- sales service and understanding the target market [4]. This review of ...

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M. Borg et al. / Renewable and Sustainable Energy Reviews 39 (2014) 1214–1225 1215. UK, the largest being a 500 kW machine shown in Fig. 2 built in 1990 [7]. However, this prototype suffered a blade failure after a few months of operation due to a manufacturing defect that set back any further VAWT deployment efforts [8]. The V-rotor, first proposed by Olle Ljungstrom in 1973 [9], aimed to ...

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518 X. Li, J. Wen / Renewable and Sustainable Energy Reviews 37 (2014) 517–537. simulation engine read in all these files, candidate system para-meters which need to be optimized would be written into the idf file, replacing the original data. EnergyPlus output results would then be evaluated within the MATLAB optimization module. Based upon the objective cost function, the operation ...

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J.I. Chowdhury et al. Renewable and Sustainable Energy Reviews 94 (2018) 1153–1178 1154. 2. Common energy e ciency opportunities in industry As mentioned before, steam systems and heating processes are the energy consumers in industry that contribute most to significant carbon emission to the environment. Since steam and heating systems are the greater losers of energy; recovering ...

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A. Cherubini et al. / Renewable and Sustainable Energy Reviews 51 (2015) 1461–1476 1463. 2. Availability of Airborne Wind Energy In the literature, the acronym AWE (Airborne Wind Energy) is usually employed to designate the high-altitude wind energy resource as well as the technological sector. High-altitude winds have been studied since decades by meteorologists, climatologists and by ...

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The course covers topics such as photovoltaic, wind, thermo-mechanical energy conversion systems, hybrid renewable energy systems, energy efficiency, building energy modelling and engineering optimisation. The University has a well-established reputation for renewable and sustainable energy technologies.

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D.Y.C. Leung et al. / Renewable and Sustainable Energy Reviews 39 (2014) 426–443 427. option for retrofitting existing power plants. The technology has been proven at small-scale with CO 2 recovered at rates up to 800 t/day [15]. However, the major challenge for post-combustion CO 2 capture is its large parasitic load. Since the CO 2 level in combustion flue gas is normally quite low (i.e ...

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T.L. Garwood et al. Renewable and Sustainable Energy Reviews 81 (2018) 895–911 897. concluded that there is a gap in existing approaches for modelling energy flows, a lack of tools to highlight energy hotspots during a product lifecycle and tools that can handle the complexities of production operations required to manufacture a product. The paper was limited in that it did not attempt any ...