

facing the south is 30 ... E. Mathioulakis, V. Belessiotis / Solar Energy 75 (2003) 403-411 409. 6. Conclusions ... The aperture area of distillation unit is around 1.18 m².

The progress made on applications of solar energy, wind energy, the kinetic forces of waves and geothermal energy are very briefly described. The connection to desalination methods, a rather new achievement, is also briefly presented with some examples. Keywords: Renewable energies; History; Solar energy; Wind energy; Waves; Geothermal energy 1.

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For the storage tank of 9 m³, the mean thermal efficiencies in December and in June are found to be 37.1% and 68.7% respectively, while the mean exergetic efficiencies 2.0% and 8.5% respectively. Moreover, it is proved that the Input/Output performance method in concentrating collectors has to take into consideration the solar incident angle ...

DOI: 10.1016/J.SAL.2006.03.531 Corpus ID: 108771963; Desalination by using alternative energy: Review and state-of-the-art @article{Mathioulakis2007DesalinationBU, title={Desalination by using alternative energy: Review and state-of-the-art}, author={Emmanouil Mathioulakis and Vassilis Belessiotis and Emmy Delyannis}, journal={Desalination}, year={2007}, volume={203}, ...

The solar still was aligned in the north-south orientation with one glass cover facing east and the other facing west. ... [17] [18] [19]. When the level of water in the basin is low, it has a ...

For the storage tank of 9 m³, the mean thermal efficiencies in December and in June are found to be 37.1% and 68.7% respectively, while the mean exergetic efficiencies 2.0% and 8.5% respectively.

An attempt is made to analyze the world-wide reserves of fossil fuel and the impact of the increasing exploitation to the exhaustion rate. The importance of renewable and/or ...

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ELSEVIER Desalination 105 (1996) 151-158 DESALINATION Solar energy: some proposals for future development and application to desalination V. Belessiotis**, E. Delyannis National Center Scientific Research Demokritos Laboratory of Testing and Development of Solar and Other Energy Systems, 153 10 Agia Paraskevi Attikis, Greece Tel and Fax +30 (1) 654 ...

The main advantage of the "V" type solar still is due to centre collection and all the condensation are easily directed to the outlet. So the distilled yield is collected without any hindrance. ... designed and installed in Solar & other Energy Laboratory of NCSR "Demokritos", is investigated through its operation under real conditions ...

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Bucher, Renewable energy sources and sea- water desalination: an assessment of methods and potential, Proc. ASRE 89, International Confer- ence on Applications of Solar and Renewable Energy, Cairo, March 19-22, 1998. [24] A.K. Rajvanshi, A scheme for large scale desali- nation of seawater by solar energy, Solar Energy, 24 (1980) 551-560. [25]

Vassilis Belessiotis, Soteris Kalogirou, Emmy Delyannis. ... London, UK : Academic Press is an imprint of Elsevier, 2016. Physical description 1 online resource. Online. Available online ScienceDirect ... Where does it Apply? 1.3 Operation Steps of a Desalination Plant 1.4 Water and Energy 1.5 Thermal Solar Desalination 1.6 New Trends in ...

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