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REVIEW ON SOLAR THERMAL TECHNOLOGIES IN ARAB COUNTRIES

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ABSTRACT

This research describes the status of solar thermal system developments in the Arab countries (AC) as an essential element for the sustainable economic development of these countries, despite their wealth in oil and gas. The paper first presents a review on solar thermal technology which most widely disseminated in Arab region including: solar water heating, solar space heating, solar space cooling and solar desalination, and sheds light on some applications in their region. It also examines performance analyses of solar thermal systems in Arab region (study). Results show that solar thermal technology is found to be very suitable under a wide range of conditions in Arab countries. Finally, the paper illustrates conclusions and recommendations for increasing and development of solar thermal energy in the Arab world.

Keywords: Renewable energy, Solar thermal technologies, Arab region