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Solar water heating systems feasibility for domestic requests in Tunisia: Thermal potential and economic analysis



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ABSTRACT

The main poal of the present work in to study the energetic and the economic potential of the deployment of Domestic Solar Water Heating systems (DSWFs) imtead of using electric/gas/town gas water heaters. A case study related to Tunisian scenario was performed according to a typical Tuninian households composed of 4-5 persons. In this scenario we evaluated the performance and the life cycle perspective of the two most popular DSWHs over the recent years (i.e. DSWH with flat-place solar collector, FPC, and DWWHs with evacuated tube solar collector. ETC: The dynamic behavior of DSWHs according to Turisian data weather was achieved by means of TRNSYS simulation. The Results showed that the FPC and ETC provide about \$115 and 12032 kW h/year of thermal energy. The economic potential of DSWHs in saving electricity and reducing carbon dismide emissions was also investigated. Results showed that the annual savings in electrical energy relatively to the IPC and ETC are about 1316 and 1459 kW h/year, with a payback period of around 8 and 10 years, respectively. Based on gas/town gas water heater, the EPC and EPC save about 30-6 m2 and 410 m2 of gar/town gas with a payback period about 6 and 7.5 years, respectively. We found that the life cycle savings by installing the solar nystem instead of buying electricity to satisfy hot water needs are about \$3949 (RPC) and \$4,400 (ETC). We establish also that the use of the DSWHs instead of installing gas towing as water heaters save about \$15 ts (FPC) and \$2005 (ETC). From an envirommental point of view the annual CHC emission per house is reduced by 278:00 tCD p.

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1. Introduction

Tunisia is the northernmost African country on the Mediterranean coast and the smallest (163,600 km2) among those situated along the Atlas mountain line. It is bordered on the west by Algeria. and on the south by Libya and the Meditentanean Sea to the northeast and north with a 1300 km of coastline (Fig. 1). Tunisia lies between latitudes 30° and 38°N, and longitudes 7° and 12°E. Despite its small size. Tunisia offers a remarkably diverse natural landscape. The country is divided into three distinct physical regions, the Tell Atlas Mountains and the Dorsale Ridge separated by the fortile valley of the Medjeeda River in the north. Tunisia has a temperate Mediterranean climate characterized by warm dry summers. and wet winders influenced by sea breezes [1]. Despite limited hydrocarbon resources, Tunisia has enjoyed a promising energy situation characterized by a largely surplus energy balance until the middle of the Eighties. The energy sector played during this period a key role in financing the economic growth of the country (about 13% of the national GDP and 16% of the national exports Currently, the energy sector accounts for approximately St.

of the GDP of the country and less than 7% of the total national exports. Since the end of the Eighties, the Envoyable situation started to deteriorate due to the joint effect of two major factors which are; (i) The stagnation of the national hydrocarbon resources and (iii) The sharp increase of energy demand, notably electricity, as induced by economic and social growth [3]. Thus, the energy balance moved from a surplus situation of approximately 3 M tone in the beginning of the Eighties to a slightly deficit situation. In 2003, Tunisian's imports of oil reached 128.3 million tones, around 46% of oil consumption, following growing energy demand and supply imbelances [4], in order to address this deficit, the Tunisian authorities have engaged an energy policy compatible with sustainable development. The concerns related to improving the energy balance have also led the authorities to set in October 2000 a national energy commission whose mission is the drawing up of a national program which aims to rationalizing energy consumption and promoting renewable energies (5.6).

As a result, Tunisian policy makers have begun acknowledging the need to resort to cleaner sources of energy, particularly solar energy. In fact, the country is blessed with a huge amount of solar energy which ranges from 1800 kW h/m² per year in the North to 2500 kW h/m² per year in the South spread over 3000 h. This favorable discumstance allows Tunisia to be a pioneer in the exploitation of solar energy in the production of domestic hot

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R Barnett

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