

TRNSYS Software Model of Solar System with Long-Term Storage

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Keywords: long-term heat storage, TRNSYS, solar heat pump system, thermal losses

Abstract. The paper describes a Trnsys model of real solar heat pump system in Slatiňany, Czech Republic. The model was based on output data from the monitoring system for the year 2011 (solar irradiation, ambient temperature, heat consumption). The output data from the computed model were compared to the values recorded by a monitoring system.

Introduction

The article aims to describe a model of long-term heat storage created in the TRNSYS simulation tool [1]. The model simulates a real system installed in Slatiňany (Czech Republic) in 1996. The output data from the computed model were compared to real values recorded by a monitoring system. The model was created to facilitate optimisation of the system.

System description

The system provides space heating and hot water for sheltered workshops of the Social Care Home in Slatiňany. During the summer, heat gain from the solar collector field installed at the roof of the building (absorber area 147.8 m^2) is stored in a long-term heat storage tank. The steel non-pressure water storage tank (usable volume 1083 m^3) is located outside the building and insulated by mineral wool (700 mm). During the winter, when the amount of solar radiation is limited, the energy from the long-term heat storage tank is used for space heating in the building (water floor heating, heat loss of the building is 57 kW at $\theta_c = -15 \text{ }^\circ\text{C}$) [2], see Fig. 1.

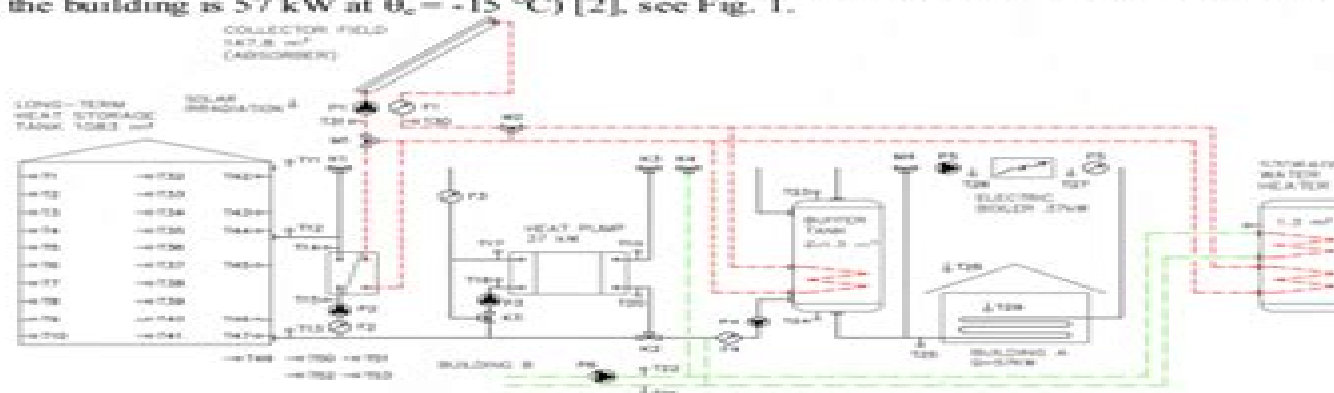


Fig. 1 – System diagram, description of key parts and measurement points of system monitoring.

If the temperature in the long-term heat storage tank is sufficient (over ca $36 \text{ }^\circ\text{C}$ based on heating curve), the building is heated directly using the water from the tank which enters the underfloor heating system over two buffer tanks. The water from the long-term heat storage tank is taken near the surface or from the middle of the tank and return water flows in at the bottom. At lower

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Environmental Software Supplement Sam Stuart, 2013-09-24 Environmental Software Supplement is a supplement to the Directory of Environmental Software in Western Europe Section 13 of the report Environmental Software A Strategic Study of the European Environmental Software Market that is circulated in July 1992 This release presents additional 59 environmental software packages and revisions to three of the packages that are featured in the original report The first two chapters merely introduce and describe this book Chapter 3 is the meat of this supplement presenting the software package indices by application area one of the indices is just a supplement and the remaining ones are complete Application areas include agriculture and forestry air pollution buildings climate and meteorology energy and hazardous substances Laboratory land contamination noise pollution risk assessment survey and planning transport waste management and water pollution application areas are also listed This book is valuable to those who need a supplement to Directory of Environmental Software or those who need information on environmental software packages *Report* University of Wisconsin--Madison. Engineering Experiment Station, 1978 **Design and Installation Manual for Thermal Energy Storage**, 1979

Renewable Energy Focus e-Mega Handbook Bent Sorensen, Mukesh Doble, Michel Broussely, Preben Maegaard, Frano Barbir, Gianfranco Pistoia, Soteris Kalogirou, Truman Storvick, Paul Breeze, Galen J. Suppes, Nasir El Bassam, Dr. Semida Silveira, Shang-Tian Yang, Aldo Vieira da Rosa, Harsh K. Gupta, Sukanta Roy, 2008-12-29 A one stop Desk Reference for engineers involved in renewable energies this is a book that will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the field Material ranges from basic to advanced topics A fully searchable Mega Reference Ebook providing all the essential material needed by Energy and Environmental Engineers on a day to day basis Fundamentals key techniques engineering best practice and rules of thumb together in one quick reference Over 2 500 pages of reference material including over 1 500 pages not included in the print edition

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Envelope Jorge de Brito, M. Glória Gomes, 2020-03-27 This book results from a Special Issue published in *Energies* entitled Building Thermal Envelope Its intent is to identify emerging research areas within the field of building thermal envelope solutions and contribute to the increased use of more energy efficient solutions in new and refurbished buildings Its contents are organized in the following sections Building envelope materials and systems envisaging indoor comfort and energy efficiency Building thermal and energy modelling and simulation Lab test procedures and methods of field measurement to assess the performance of materials and building solutions Smart materials and renewable energy in building envelope Adaptive and intelligent building envelope and Integrated building envelope technologies for high performance buildings and cities **A Handbook on Low-Energy Buildings and District-Energy Systems** L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to obtain information on energy use and energy efficiency in buildings at a level which can be easily digested and applied Danny Harvey offers a comprehensive objective and critical sourcebook on low energy buildings Topics covered include thermal envelopes heating cooling heat pumps HVAC systems hot water lighting solar energy appliances and office equipment embodied energy buildings as systems and community integrated energy systems cogeneration district heating and district cooling The book includes exemplary buildings and techniques from North America Europe and Asia and combines a broad holistic perspective with technical detail in an accessible and insightful manner

Solar Energy Conversion II A. F. Janzen, R. K. Swartman, 2013-10-22 Solar Energy Conversion II presents the proceedings of the 1980 International Symposium on Solar Energy Utilization held in Ontario Canada on August 10-24 1980 This book provides information on the utilization of solar energy and on the difficulties encountered in its implementation Organized into 42 chapters this compilation of papers begins with an overview of the important parameter in solar radiation

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Thermal Systems Ivan CK Tam, Brian Agnew, 2021-04-07 We live in interesting times in which life as we know it is being threatened by manmade changes to the atmosphere in which we live On the global scale concern is focused on climate change due to greenhouse gas emissions and on a national scale atmospheric pollution produced by combustion processes is of concern A possible approach is through the development of new ideas and innovative processes to the current practices Among the available options multi generation processes such as the trigeneration cycle battery storage system solar power plants and heat pumps have been widely studied as they potentially allow for greater efficiency lower costs and reduced emissions On the other hand some researchers had been working to increase the potential of energy generation process through heat recovery under the steam generator organic Rankine cycle and absorption chillers In this Special Issue on Thermal Systems of fundamental or applied and numerical or experimental investigation many new concepts in thermal systems and energy utilization were explored and published as original research papers in this Special Issue

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and mass transfer at an urban scale while emphasizing the role played by different spatial arrangements manmade materials and green infrastructures on the outdoor microclimate The first chapters also address the implications of these factors on the outdoor comfort conditions experienced by pedestrians and on the buildings energy demand for space heating and cooling Then based upon cutting edge experimental activities and simulation work this book demonstrates current and forthcoming adaptation and mitigation strategies to improve the urban microclimate and its impact on the built environment such as cool materials thermochromic and retroreflective finishing materials and green infrastructures applied either at a building scale or at the urban scale The effect of these solutions is demonstrated for different cities worldwide under a range of climate conditions Finally the book opens a wider perspective by introducing the basic elements that allow fuel poverty raw materials consumption and the principles of circular economy in the definition of a resilient urban settlement Insolation Data Manual Connie L. Knapp,1980 Monthly averaged data is presented which describes the availability of solar radiation at 248 National Weather Service stations Monthly and annual average daily insolation and temperature values have been computed from a base of 24 to 25 years of data Average daily maximum minimum and monthly temperatures are provided for most locations in both Celsius and Fahrenheit Heating and cooling degree days were computed relative to a base of 18.3 C 65 F For each station global anti K sub T cloudiness index were calculated on a monthly and annual basis *Report to the United States Department of Energy, Conservation and Solar Applications, Solar Heating and Cooling Systems Development Branch, on Simulation and Design of Solar Thermal Processes* University of Wisconsin--Madison. Solar Energy Laboratory,1978

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