



# Solar Energy, Photovoltaics, and Domestic Hot Water: A Technical and Economic Guide for Project Planners, Builders, and Property Owners

By Russell H. Plante

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**Solar Energy, Photovoltaics, and Domestic Hot Water: A Technical and Economic Guide for Project Planners, Builders, and Property Owners** By Russell H. Plante

*Solar Energy, Photovoltaics, and Domestic Hot Water* provides a fundamental understanding of heat and energy conversions and of both solar domestic hot water system types with associated components and photovoltaic/inverter system combinations. It provides the information needed to determine and understand the proper siting requirements, the amount of energy needed (based upon usage), the amount of solar energy available, the methods of comparing collectors for both hot water and photovoltaic situations, and the number of collectors necessary for either hot water or electricity. *Solar Energy, Photovoltaics, and Domestic Hot Water* also details the investment and cost savings advantages of using solar energy through a unique compilation of information and explanations not available in other publications or on the internet. This includes comprehensive financial explanations with examples using basic engineering management analysis methods. These examples include present and future worth relative to break-even costs and cash flow analysis and actual quoted systems and worksheets for typical electrical solar PV and DHW demand scenarios allowing you to calculate your own cost estimates and to evaluate your own projects relative to investment payback. *Solar Energy, Photovoltaics, and Domestic Hot Water* will enable readers make informed decisions about the economic practicality of solar generation sources for residential or commercial use based upon location, energy demands, associated conventional fuel costs, solar energy system costs, and tax incentives.

- Provides a fundamental understanding of solar DHW and photovoltaic systems
- Uses clear guidelines to evaluate solar DHW and photovoltaic systems' value as a long-term investment vs traditional power and heat generation methods
- Discusses cost and operating expenses relative to investment and return on capital which will be beneficial to project planners, installers, energy managers, builders and property owners

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- Sales Rank: #2636948 in eBooks
- Published on: 2014-04-14
- Released on: 2014-04-14
- Format: Kindle eBook

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### **Editorial Review**

#### **Review**

" ... a technical and economic guide...that provides the information necessary for determining whether either a photovoltaic (PV) or domestic hot water (DHW) system makes economic sense...If you are a builder, or property owner planning on installing solar energy systems, this well-written book is definitely worth purchasing." --**IEEE Electrical Insulation Magazine, *Solar Energy, Photovoltaics, and Domestic Hot Water***

#### **About the Author**

Russell H Plante, Engineering Physicist, Applied Technologies, Inc. A former project engineer in Kalwall Corp.'s Solar Division and DOD Branch Head in Control Engineering, Russell was appointed by the University of Maine to advise and assist the Physics Department in providing an industrial perspective for quality education. A skilled technical writer and project manager, he has received awards for Solar Building Engineering Design from the State of Maine Office of Energy Resources and from the U.S. Department of Energy for Energy Innovation Technologies

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##### **Donna Clark:**

Book is to be different for each grade. Book for children until finally adult are different content. As we know that book is very important usually. The book *Solar Energy, Photovoltaics, and Domestic Hot Water: A Technical and Economic Guide for Project Planners, Builders, and Property Owners* has been making you to know about other information and of course you can take more information. It is extremely advantages for you. The guide *Solar Energy, Photovoltaics, and Domestic Hot Water: A Technical and Economic Guide for Project Planners, Builders, and Property Owners* is not only giving you considerably more new information but also to be your friend when you feel bored. You can spend your spend time to read your publication. Try to make relationship while using book *Solar Energy, Photovoltaics, and Domestic Hot Water: A Technical and Economic Guide for Project Planners, Builders, and Property Owners*. You never sense lose out for everything if you read some books.

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**Amy Tharp:**

In this age globalization it is important to someone to get information. The information will make professionals understand the condition of the world. The health of the world makes the information much easier to share. You can find a lot of personal references to get information example: internet, magazine, book, and soon. You can see that now, a lot of publisher that print many kinds of book. The particular book that recommended for your requirements is Solar Energy, Photovoltaics, and Domestic Hot Water: A Technical and Economic Guide for Project Planners, Builders, and Property Owners this book consist a lot of the information in the condition of this world now. This kind of book was represented how can the world has grown up. The terminology styles that writer use for explain it is easy to understand. The particular writer made some study when he makes this book. That is why this book ideal all of you.

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