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- Commenting and recommendation functionalities
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Contact: Stuart.Cooper@ScienceOpen.com
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It is exciting to be working with ScienceOpen on this effective and elegant technology for book promotion and sales.

Christoph von Friedeburg,
CF Energy Research & Consulting UG

**Books on ScienceOpen**

**Presentation**
- Linking between books and chapters with interactive TOC
- Cover as catchy thumbnail image
- Reference linking and rich metadata integration
- Embedded in discovery environment of over 60 million records

**Promotion**
- Books highlighted in topical Collection of publisher content
- Collections promoted in search and on related content
- Books highlighted in researcher-led Collections

**Sales**
- Link back to publisher Version of Record
- „Buy Print“ button to track ROI
- Straight-forward pricing – cost of 1 print book sale
- Price of 1 print book

**Analytics**
- Alternative metrics for books and chapters
- Quarterly usage reports

**Open Access Book Hosting**
- In Development

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**Wind and Solar Based Energy Systems for Communities**

**Solar-water desalination for small communities**

Authors: Sahib Ahmad, Jesusline A. Stagner, David L-K Ting
Publisher: Institution of Engineering and Technology

**Subjects:** Power applications in water treatment and supply, Solar energy, Energy resources, Key words: Anda power, direct solar water desalination, small communities, Projects, Desalination, distillation heat transfer, energy intensive process, and mathematical modeling, evaporative heat transfers, District desalination, connected heat transfers, freshwater-scarce communities

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**Abstract**

The use of solar-water desalination is one of the most promising and environment-friendly means to meet the ever-increasing demand of fresh water in freshwater-scarce communities. Unfortunately, desalination of water is a highly energy-intensive process. Nonetheless, direct solar-water desalination is simple in design, low in cost and can easily support the daily use of communities. This chapter describes various types of solar-water desalination with a focus on technologies that are suitable for small communities and remote areas. Mathematical modeling of direct solar-water desalination based on convective, radiative, and evaporative heat transfer has been performed. A case study from Masa District desalination, Barchuch of Water-saving design, fabrication, and cost is included to give an overview of the practical operation of technology.