



Large-Scale Solar Power Systems: Construction and Economics (Sustainability Science and Engineering)

By Peter Gevorkian

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This book is a comprehensive discussion and economic analysis of large-scale solar power systems, specifically referencing critical issues related to design construction and financing. The book provides practical design, installation, and financing guidelines for large-scale commercial and industrial solar power projects. Engineering design and construction methodologies as well as economic analysis provide a step-by-step walk-through of all aspects of solar power systems. Design methodologies outline the specific requirements of solar and electrical design and construction documentation in meticulous detail, which can readily be applied to ground mount, roof mount, building integrated (BIPV), and carport-type solar power projects. In view of the importance of solar power systems as a viable present and future energy resource, the book includes a dedicated chapter on smart grid transmission and large-scale energy storage systems.

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Editorial Review

About the Author

Dr Gevorkian is President of Vector Delta Design Group, Inc., an international electrical engineering and solar power consultancy, and CEO of Solar Analytic Solutions, Inc., an engineering R & D organization. He has designed more than fifty MW of photovoltaic systems for healthcare, aviation and regional utility companies and holds numerous patents. Dr Gevorkian has also developed advanced econometric analytical software for large scale solar power design and financing. Dr Gevorkian is an active member of the Canadian and California board of professional engineers and the California Society of Energy Engineers. Over his 40 year career, he has received numerous honors and awards including the AIA 2007 Engineering Merit Award for Renewable Energy Systems and Exceptional Contribution to the Advancement of Solar Power Co-generation in Building Design, the AIA 2007 Design Honor Award for Outstanding Engineering Design for the Metropolitan Water District's Museum of Water and Life, the AIA 2008 Honor Award for Outstanding Design Achievement in Solar Power Engineering and the AIA 2009 Honor Award for Excellence in Solar Power Design. Dr Gevorkian is the author of numerous technical papers and technical books on renewable energy systems design. His books include Sustainable Energy Systems In Architectural Design, Sustainable Energy System Engineering, Solar Power Systems In Building Design, Alternative Energy Systems in Building Design, Large Scale Solar Photovoltaic System Design and Large Scale Solar Power Construction and Economics.

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