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Can We Rely on Wind and Solar Energy?

Solar electricity or photovoltaics (PV) is the world’s fastest growing energy technology. It can be used on a wide variety of scales, from single dwellings to utility-scale solar farms providing power for whole communities. It can be integrated into existing electricity grids with relative simplicity, meaning that in times of low solar energy users can continue to draw power from the grid, while power can be fed or sold back into the grid at a profit when their electricity generation exceeds the amount they are using. The falling price of the equipment combined with various incentive schemes around the world have made PV as a lucrative low carbon investment, and as such demand has never been higher for the technology, and for people with the expertise to design and install systems. This Expert handbook provides a clear introduction to solar radiation, before proceeding to cover: electrical basics and PV cells and modules inverters design of grid-connected PV systems system installation and commissioning maintenance and troubleshooting health and safety economics and marketing. Highly illustrated in full colour throughout, this is the ideal guide for electricians, builders and architects, housing and property developers, home owners and DIY enthusiasts, and anyone who needs a clear introduction to grid-connected solar electric technology.

"TRB's National Cooperative Highway Research Program (NCHR) Report 751: Renewable Energy Guide for Highway Maintenance Facilities offers guidance for the application of renewable energy technologies to the heating and cooling, lighting, and electrical power requirements of highway maintenance facilities."--Publisher's description.

- Includes a set of 119 (17" x 22") foldout prints that provide learners with realistic on-the-job experiences.- Covers commercial and residential print reading.- Provides four comprehensive print reading projects at end of text.

The consumer guide to small-scale wind electricity production! Maybe you're not T. Boone Pickens, but you can build your own home-sized wind-power empire right in your back yard. Wind Power For Dummies supplies all the guidance you need to install and maintain a sustainable, cost-effective wind generator to power your home for decades to come. This authoritative, plain-English guide walks you through every step of the process, from assessing your site and available wind resources to installing your wind power generator and connecting it to your home's existing power system. Renewable energy pioneer T. Boone Pickens provides insight on the benefits of wind power, and explains how you can get started on your own wind-power project.

A comprehensive training resource for producing electric power from the sun.
The market and policy impetus to install increasingly utility-scale solar systems, or solar farms (sometimes known as solar parks or ranches), has seen products and applications develop ahead of the collective industry knowledge and experience. Recently however, the market has matured and investment opportunities for utility-scale solar farms or parks as part of renewable energy policies have made the sector more attractive. This book brings together the latest technical, practical and financial information available to provide an essential guide to solar farms, from design and planning to installation and maintenance. The book builds on the challenges and lessons learned from existing solar farms, that have been developed across the world, including in Europe, the USA, Australia, China and India. Topics covered include system design, system layout, international installation standards, operation and maintenance, grid penetration, planning applications, and skills required for installation, operation and maintenance. Highly illustrated in full colour, the book provides an essential practical guide for all industry professionals involved in or contemplating utility-scale, grid-connected solar systems.

Oliza Shardae Cobriana is heir to Wyvern's Court, home of the avians and serpiente, whose war with each other ended just before Oliza was born. But hatred is slow to die, and not everyone likes the expressive way in which Urban, a serpiente dancer, is courting Oliza--especially not Marus, her reserved avian suitor. And when Urban is found beaten in avian land, Oliza is filled with despair. How can she be expected to lead a unified society if her people still cannot live peacefully together? Before Oliza can try to mend the rift in Wyvern's Court, she is kidnapped by mercenaries, who take her deep into wolves' territory. As Wyvern princess, all Oliza has ever wanted is to see a future where she can find love and take a mate without inciting another war. The time is now. She owes it to her people—and to herself.

From the Foreword by Dr Valmond Ghyoot, Emeritus Professor of Real Estate, University of South Africa: The valuation profession, the legal profession, property industry participants in general and students will welcome publication of this book. Investors, environmental groups and affected property owners will find essential information for use in their decision-making, development objections and claims. My hope is that [it] will provide answers where required and that it will help to improve the professional standard of valuations and appraisals internationally. I trust that it will also raise the standard of testimony in damages cases. If so, the editors and contributors will have succeeded in documenting the state of the art in this relatively unexplored terrain. As a reference source, this book will help quantify the negative impacts on property values of high voltage overhead transmission lines, cell phone towers, and wind turbines. It gives a modern perspective of the concerns property owners have about the siting of industrial structures used to transmit or generate various forms of energy and how these concerns impact on property values. Studies reveal concerns the public have about devices and structures that emit electromagnetic fields (EMFs) due to their potential health hazards. Despite some research reports suggesting there are no potential adverse health hazards from high voltage overhead transmission lines (HVOTLs) and towers, there is still ongoing concern about the siting of these structures due to fears of health risks from exposure to EMFs, changes in neighbourhood aesthetics and loss in property values. The siting of wind turbines is also receiving community opposition due to noise, light flicker, aesthetic concerns, and loss in property values. The extent to which such attitudes are reflected in lower property values is not well understood. Towers, Turbines and Transmission Lines: Impacts on Property Value outlines results of studies conducted in the US, the UK, Australia and New Zealand and offers guidance to valuers as well as to property/real estate appraisal students and property owners around the world. The book provides defensible tools that are becoming widely accepted to assess the effect that these environmental detractors have on property prices.

Los llanos! the rain-leached, eastern savannas of war-ravaged Colombia! are among the most brutal environments on Earth and an unlikely setting for one of the most hopeful environmental stories ever told. Here, in the late 1960s, a young Colombian development worker named Paolo Lugari wondered if the nearly uninhabited, infertile llanos could be made livable for his country's growing population. He had no idea that nearly four decades later, his experiment would be one of the world's most celebrated examples of sustainable living: a permanent village called Gaviotas. In the absence of infrastructure, the first Gaviotans invented wind turbines to convert mild breezes into energy, hand pumps capable of tapping deep sources of water, and solar collectors efficient enough to heat and even sterilize drinking water under perennially cloudy llano skies. Over time, the Gaviotans! experimentation has even restored an ecosystem: in the shelter of two million Caribbean pines planted as a source of renewable commercial resin, a primordial rain forest that once covered the llanos is unexpectedly reestablishing itself. Colombian author Gabriel García Márquez has called Paolo Lugari! Inventor of the World! Lugari himself has said that Gaviotas is not a utopia: Utopia literally means "no place." We call Gaviotas a topia, because it's real. Relive their story with this special 10th-anniversary edition of Gaviotas, complete with a new afterword by the author describing how Gaviotas has survived and progressed over the past decade.

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