



## Spain s Photovoltaic Revolution: The Energy Return on Investment (Paperback)

By Pedro A. Prieto, Charles A. S. Hall

Springer-Verlag New York Inc., United States, 2013. Paperback. Condition: New. 2013 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.The Energy Return on Energy Invested (EROI or EROEI) is the amount of energy acquired from a particular energy source divided by the energy expended, or invested, in obtaining that energy. EROI is an essential and seemingly simple measure of the usable energy or energy profit from the exploitation of an energy source, but it is not so easy to determine all of the energy expenditures that should be included in the calculation. Because EROI values are generally low for renewable energy sources, differences in these estimates can lead to sharply divergent conclusions about the viability of these energy technologies. This book presents the first complete energy analysis of a large-scale, real-world deployment of photovoltaic (PV) collection systems representing 3.5 GW of installed, grid-connected solar plants in Spain. The analysis includes all of the factors that limit and adjust the real electricity output through one full-year cycle, and all of the fossil fuel inputs required to achieve these results. The authors comprehensive analysis of energy inputs, which assigns energy cost estimates to all financial expenditures, yields EROI values...



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