

| | |
|-------------------------|-------------------------------------------------------------|
| 1. Record Nr. | UNINA9910466973103321 |
| Autore | Petit Thierry |
| Titolo | La naissance des cités-royaumes Cypriotes / / Thierry Petit |
| Pubbl/distr/stampa | Oxford : , : Archaeopress, , [2019] ©2019 |
| ISBN | 1-78969-348-9 |
| Descrizione fisica | 1 online resource (168 pages) |
| Disciplina | 939.37 |
| Soggetti | Iron age - Cyprus Electronic books. |
| Lingua di pubblicazione | Francese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |

| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Record Nr. | UNINA9910830911803321 |
| Autore | Sahoo Umakanta |
| Titolo | Hybrid renewable energy systems / / Umakanta Sahoo |
| Pubbl/distr/stampa | Hoboken, New Jersey : , : Scrivener Publishing, , [2021] ©2021 |
| ISBN | 9781119555636 1-5231-4352-5 1-119-55563-9 1-119-55566-3 1-119-55561-2 |
| Descrizione fisica | 1 online resource (266 pages) |
| Disciplina | 621.3121 |
| Soggetti | Distributed generation of electric power Hybrid power systems Renewable energy sources |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Cover -- Half-Title Page -- Series Page -- Title Page -- Copyright Page -- Contents -- 1 Resource Assessment and Implementation of Hybrid Renewable Energy Systems for Food Preservation in Agro-Tropical Areas: A Techno-Economic Approach -- 1.1 Introduction -- 1.1.1 Objectives -- 1.2 Materials and Methods -- 1.2.1 Resource Assessment -- 1.2.2 Modelling and Simulation of a Hybrid Renewable Energy-Based Cooling System -- 1.3 Results and Discussion -- 1.3.1 Overall Efficiency of the System -- 1.3.2 Evaluation of Economic Parameters -- 1.3.3 Techno-Economic Study -- 1.3.4 Sensitivity Analysis -- 1.4 Conclusions -- References -- 2 Implementation of Hybrid Renewable Energy Projects in Rural India-A Case Study -- 2.1 Introduction -- 2.2 Overview of Microgrid -- 2.3 Basic Structure of Hybrid System -- 2.4 Hybrid Microgrid Control -- 2.5 Project Location -- 2.6 Load Profile Study of Proposed Location -- 2.7 Operation of Hybrid Microgrid System Considered for Current Study -- 2.8 Technical Specification of Hybrid System -- 2.9 Modeling of Hybrid Microgrid System -- 2.10 Last One Year Output of Hybrid Microgrid Plant -- 2.11 Financial Analysis -- |

2.12 Tariff Calculation -- 2.13 Conclusion -- References -- 3 Techno-Economic Analysis of Hybrid Renewable Energy System with Energy Storage for Rural Electrification -- 3.1 Introduction -- 3.2 HES Components -- 3.3 Energy Storage Systems -- 3.3.1 Pumped Hydro Storage (PHS) -- 3.3.2 Compressed Air Energy Storage (CAES) -- 3.3.3 Flywheel Energy Storage (FES) -- 3.3.4 Chemical Energy Storage -- 3.3.5 Electromagnetic Energy Storage -- 3.4 Hybrid Energy System Configuration -- 3.4.1 Integration Schemes -- 3.4.2 DC-Coupled Systems -- 3.4.3 AC-Coupled Systems -- 3.4.4 Hybrid-Coupled Systems -- 3.5 Component Sizing of Hybrid RE Systems -- 3.6 Techno-Economical Analysis -- 3.6.1 Selection of Study Area for the Proposed Study.

3.6.2 Load Assessment of the Study Area -- 3.6.3 Resources Assessment -- 3.6.4 Economic Analysis -- 3.6.5 Results and Discussion -- 3.7 Conclusion -- References -- 4 Modeling and Energy Optimization of Hybrid Energy Storage System -- 4.1 Introduction -- 4.2 Modeling of Proposed Topology -- 4.2.1 Modeling of Photovoltaic System -- 4.2.2 Modeling of Li-Ion Battery Module -- 4.2.3 Modeling of Ultracapacitor Module -- 4.3 Control Strategies -- 4.3.1 PV-MPPT Technique and DC/DC Converter Model -- 4.3.2 Hybrid Active Power Control of Energy Storage Systems -- 4.4 Energy Optimization Strategy and Simulation Results -- 4.4.1 Energy Optimization Strategy -- 4.4.2 Simulation Results -- 4.5 Conclusion -- Acknowledgment -- References -- 5 Techno Commercial Study of Hybrid Systems for the Agriculture Farm Using Homer Software -- 5.1 Introduction -- 5.2 Electricity Consumption by Agricultural Sector -- 5.3 Literature Review -- 5.4 Study Location -- 5.4.1 Solar Energy Potential in Dindigul District -- 5.5 Load Estimation of the Farm -- 5.5.1 Daily Power Consumption by the Farm -- 5.6 Renewable Energy Technology Used in the Hybrid System -- 5.6.1 Solar PV System -- 5.6.2 Biogas Energy Potential in Farm -- 5.6.3 Biomass Potential in the Particular Site -- 5.7 System Design and Analysis -- 5.7.1 Result Analysis -- 5.8 Conclusion -- References -- 6 Experimental Investigation of Solar Photovoltaic Cold Storage With Thermal Energy Storage -- 6.1 Introduction -- 6.2 Scope of Cold Storage in India -- 6.3 Materials and Method -- 6.3.1 Experimental Setup -- 6.4 Economic Analysis -- 6.4.1 Payback Period -- 6.5 Different Business Models for SPV Cold Storage With Thermal Energy Storage -- 6.6 Result and Discussions -- 6.7 Conclusions -- Acknowledgements -- Abbreviations -- References -- 7 Estimation of Fault Voltages in Renewable Energy-Based Microgrid -- 7.1 Introduction.

7.2 Problem Formulation -- 7.2.1 Taylor Series Based Voltage Signal Formulation -- 7.2.2 Recursive Least Square (RLS) Algorithm -- 7.3 Pseudo Code/Algorithm for Taylor-RLS -- 7.4 Experimental Validation -- 7.5 Conclusion -- References -- 8 Optimization of PV-Wind Hybrid Renewable Energy System for Health Care Buildings in Smart City -- 8.1 Introduction -- 8.2 Objectives and Methodology -- 8.3 Description of the HE -- 8.4 Results and Discussion -- 8.5 Conclusion -- Nomenclatures -- References -- 9 Hybrid Solar-Biomass Gasifier System for Electricity and Cold Storage Applications for Rural Areas of India -- 9.1 Introduction -- 9.2 Literature Review -- 9.2.1 Gasification of Biomass -- 9.2.2 Solar Energy Cooling and Heating -- 9.2.3 Engine Exhaust and Waste Heat Recovery -- 9.3 Materials and Methods -- 9.3.1 System Components -- 9.4 Performance Evaluation -- 9.4.1 Thermodynamic Analysis -- 9.5 Results and Discussion -- 9.6 Conclusion & Suggestions for Future Work -- References -- Index -- Also of Interest -- Check out these other related titles from Scrivener Publishing -- EULA.

Sommario/riassunto

"The energy scene in the world is a complex picture of a variety of energy sources being used to meet the world's growing energy needs. There is, however, a gap in the demand and supply. It is recognized that decentralized power generation based on the various renewable energy technologies can, to some extent, help in meeting the growing energy needs. The renewable energy landscape has witnessed tremendous changes in the policy framework with accelerated and ambitious plans to increase the contribution of renewable energy such as solar, wind, bio-power, and others. Hybrid renewable energy systems are important for continuous operation and supplements each form of energy seasonally, offering several benefits over a stand-alone system. It can enhance capacity and lead to greater security of continuous electricity supply, among other applications. This book provides a platform for researchers, academics, industry professionals, consultants and designers to discover state-of-the-art developments and challenges in the field of hybrid renewable energy. Written by a team of experts and edited by one of the top researchers in hybrid renewable systems, this volume is a must-have for any engineer, scientist, or student working in this field, providing a valuable reference and guide in a quickly emerging field"--
