

1.	Record Nr.	UNINA990007435780403321
	Autore	Lacombe, Paul
	Titolo	Taine historien et sociologue / Paul Lacombe
	Pubbl/distr/stampa	Paris : V. Giard et E. Brière, 1909
	Descrizione fisica	274 p. ; 24 cm
	Collana	Bibliothèque sociologique internationale ; 38
	Localione	FGBC
	Collocazione	XV C 10 (38)
	Lingua di pubblicazione	Francese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9911006517103321
	Autore	El Bassam Nasir
	Titolo	Distributed renewable energies for off-grid communities : strategies and technologies toward achieving sustainability in energy generation and supply // Nasir El Bassam, Preben Maegaard, Marcia Lawton Schlichting
	Pubbl/distr/stampa	Amsterdam ; ; Boston, : Elsevier, 2013
	ISBN	9781283706513 1283706512 9780123977731 0123977738
	Edizione	[1st edition]
	Descrizione fisica	1 online resource (417 p.)
	Altri autori (Persone)	MaegaardPreben SchlichtingMarcia Lawton
	Disciplina	333.79/4
	Soggetti	Small power production facilities Distributed generation of electric power Renewable energy sources Electric power distribution Energy development
	Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>Front Cover; Distributed Renewable Energies For Off-Grid Communities: Strategies and Technologies toward Achieving Sustainability in Energy Generation and Supply; Copyright; Contents; Preface; List of Figures; List of Tables; Chapter One- Scope of the Book; 1.1.DISTRIBUTED ENERGY GENERATION; 1.2.DISTRIBUTED ENERGY SUPPLY; 1.3.COMMUNITY POWER; 1.4.OFF-GRID SYSTEMS; REFERENCES; Chapter Two- Restructuring Future Energy Generation and Supply; 2.1. BASIC CHALLENGES; 2.2.CURRENT ENERGY SUPPLIES; 2.3.PEAK OIL; 2.4. AVAILABILITY OF ALTERNATIVE RESOURCES; REFERENCES</p> <p>Chapter Three- Road Map of Distributed Renewable Energy Communities 3.1.ENERGY AND SUSTAINABLE DEVELOPMENT; 3.2. COMMUNITY INVOLVEMENT; 3.3.FACING THE CHALLENGES; 3.4.THE CONCEPT OF FAO, UN INTEGRATED ENERGY COMMUNITIES (IEC); 3.5. GLOBAL APPROACH; 3.6.BASIC AND EXTENDED NEEDS; 3.7.TYPICAL ELECTRICITY DEMANDS; 3.8.SINGLE AND MULTIPLE-PHASE ISLAND GRID; 3.9.REGIONAL IMPLEMENTATION; REFERENCES; FURTHER READING; Chapter Four- Planning of Integrated Renewable Communities; 4.1.SCENARIO 1; 4.2.SCENARIO 2; 4.3.CASE STUDY I: IMPLEMENTATION OF IEF UNDER CLIMATIC CONDITIONS OF CENTRAL EUROPE</p> <p>4.4.CASE STUDY II: ARID AND SEMI-ARID REGIONSREFERENCE; Chapter Five- Determination of Community Energy and Food Requirements; 5.1. MODELING APPROACHES; 5.2.DATA ACQUISITION; 5.3.DETERMINATION OF ENERGY AND FOOD REQUIREMENTS; 5.4.ENERGY POTENTIAL ANALYSIS; 5.5.DATA COLLECTION AND PROCESSING FOR ENERGY UTILIZATION; 5.6.WIND ENERGY; 5.7.BIOMASS; REFERENCES; Chapter Six- Energy Basics, Resources, Global Contribution and Applications; 6.1.BASICS OF ENERGY; 6.2.GLOBAL CONTRIBUTION; 6.3.RESOURCE AND APPLICATIONS; REFERENCES; Chapter Seven- Solar Energy; 7.1. PHOTOVOLTAIC</p> <p>7.2.CONCENTRATING SOLAR THERMAL POWER (CSP)7.3.SOLAR THERMAL COLLECTORS; 7.4.SOLAR COOKERS AND SOLAR OVENS; REFERENCES; Chapter Eight- Wind Energy; 8.1.GLOBAL MARKET; 8.2. TYPES OF WIND TURBINES; 8.3.SMALL WIND TURBINES; 8.4.GOOGLE SUPERHIGHWAY, USA; REFERENCES; Chapter Nine- Biomass and Bioenergy; 9.1.CHARACTERISTICS AND POTENTIALS; 9.2.SOLID BIOFUELS; 9.3.CHARCOAL; 9.4.BRIQUETTES; 9.5.PELLETS; 9.6.BIOGAS; 9.7.ETHANOL; 9.8.BIO-OILS; 9.9.CONVERSION SYSTEMS TO HEAT, POWER AND ELECTRICITY; 9.10.COMBINED HEAT AND POWER (CHP); 9.11.STEAM TECHNOLOGY; 9.12.GASIFICATION; 9.13.PYROLYSIS; 9.14. METHANOL</p> <p>9.15.SYNTHETIC OIL9.16.FUEL CELLS; 9.17.THE STIRLING ENGINE; 9.18. ALGAE; 9.19.HYDROGEN; REFERENCES; FURTHER READING; Chapter Ten- Hydropower; 10.1.HYDROELECTRICITY; 10.2.MICROHYDROPOWER SYSTEMS; 10.3.TURBINE TYPES; 10.4.POTENTIAL FOR RURAL DEVELOPMENT; REFERENCES; Chapter Eleven- Marine Energy; 11.1. OCEAN THERMAL ENERGY CONVERSION; 11.2.TECHNOLOGIES; 11.3. OCEAN TIDAL POWER; 11.4.OCEAN WAVE POWER; 11.5. ENVIRONMENTAL AND ECONOMIC CHALLENGES; REFERENCES; Chapter Twelve- Geothermal Energy; 12.1.ORIGIN OF GEOTHERMAL HEAT; 12.2. GEOTHERMAL ELECTRICITY; 12.3.TYPES OF GEOTHERMAL POWER PLANTS</p> <p>REFERENCES</p>

Energy is directly related to the most critical economic and social issues which affect sustainable development such as mobility, food production, environmental quality, regional and global security issues. Two-thirds of the new demand will come from developing nations, with China accounting for 30%. Without adequate attention to the critical importance of energy to all these aspects, the global, social, economic and environmental goals of sustainability cannot be achieved. Indeed the magnitude of change needed is immense, fundamental and directly related to the energy produced and consumed na
