Record Nr.	UNINA9910819313203321
Autore	Tansi Bobbo Nfor
Titolo	An assessment of Cameroons [sic] wind and solar energy potential [[electronic resource] ] : a guide for a sustainable economic development / / Babbo Nfor Tansi
Pubbl/distr/stampa	Hamburg, : Diplomica Verlag, 2012
ISBN	3-8428-2028-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (116 p.)
Disciplina	621.042
Soggetti	Wind power - Cameroon
	Solar energy - Cameroon
	Sustainable development - Cameroon
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from cover.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	An Assessment of CameroonsWind and Solar Energy Potential. A Guide for a Sustainable Economic Development; Dedication; Acknowledgement; Abstract; Acronyms/Abbreviations; List of Figures; List of Tables; Table of Contents; Chapter 1 : Introduction; 1.1 The Republic of Cameroon; 1.2 The Climate of Cameroon and Surface Meteorology; 1.3 The Energy Situation in Cameroon; 1.4 Renewable Energy; 1.5 Overview of Cameroon's Renewable Energy Resources; 1.5.1 Hydropower; 1.5.2 Biomass; 1.5.3 Wind; 1.5.4 Solar; Chapter 2 : Aims and Objectives; 2.1 Rationale of the Study 2.2 Aims and Objectives of the Research2.3 Thesis Outline; Chapter 3 : Methodology; 3.1 Introduction; 3.2 Literature Review; 3.3 RETScreen 4 International; 3.3.1 RETScreen Objectives; 3.3.2 Software and Data; 3.3.3 RETScreen 4 Features; 3.3.4 RETScreen's Five Step Analysis; Chapter 4 : Technical Analysis; 4.1. Introduction; 4.1.1 Far North Region - Maroua; 4.1.2 North Region - Garoua; 4.1.3 Adamawa Region - Ngaoundere; 4.1.4 North West Region - Bamenda; 4.1.5 West Region - Bafia; 4.1.6 Centre Region - Yaounde; 4.1.7 Littoral Region - Douala; 4.1.8 Eastern Region - Bertoua 4.1.9 South Region - Ebolowa4.1.10 South West Region - Fontem; 4.2 Central-grid Connected 2,000kW Wind Energy; 4.3 Isolated-grid Connected 2,000W Solar Energy; Chapter 5 : Economic and

1.

	Sustainability Analysis; 5.1 Introduction; 5.2 Renewable Energy and Economic Development; 5.3 Cost Analysis; 5.4 Financial Analysis; 5.4.1 Wind; 5.4.2 Solar; Chapter 6 : Environmental Analysis; 6.1 Introduction; 6.2 Greenhouse Gas Emissions in Cameroon; 6.3 Offsetting Greenhouse Gases by Wind; 6.4 Offsetting Greenhouse Gases by Solar; Chapter 7 : Political and Regulatory Framework; Chapter 8 : Conclusion Chapter 9 : RecommendationsReferences; Appendix; About the Author
Sommario/riassunto	HauptbeschreibungCameroon has vast renewable energy resource potentials, with a hydropower potential of about 55, 200MW, second only to the Democratic Republic of Congo in Africa. So far, its energy needs are met by 4.8% hydropower (which accounts for less than 5% of its total hydropower potential), 0% wind and 0% solar. Cameroons' energy sector still goes through insufficient electrical energy production, especially during the heart of the dry season, which runs from December through March. Coincidentally, the wind and solar power potentials for Cameroon are at their peak during th