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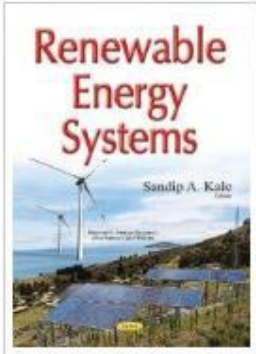
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Understanding the basis of photovoltaic (PV) systems is necessary for their acceptance, integration and adoption in developing countries. The low integration of PV systems in Africa can account for the major power crisis the African region is currently suffering. It is known that Sub-Saharan Africa faces chronic power supply problems which are related to aging plants with low maintenance and also over-reliance on hydropower plants (International Bank for Reconstruction and Development and The World Bank, 2010). It is estimated that the total generation capacity of 48 Sub-Saharan countries is 68 gigawatts which is barely lower than

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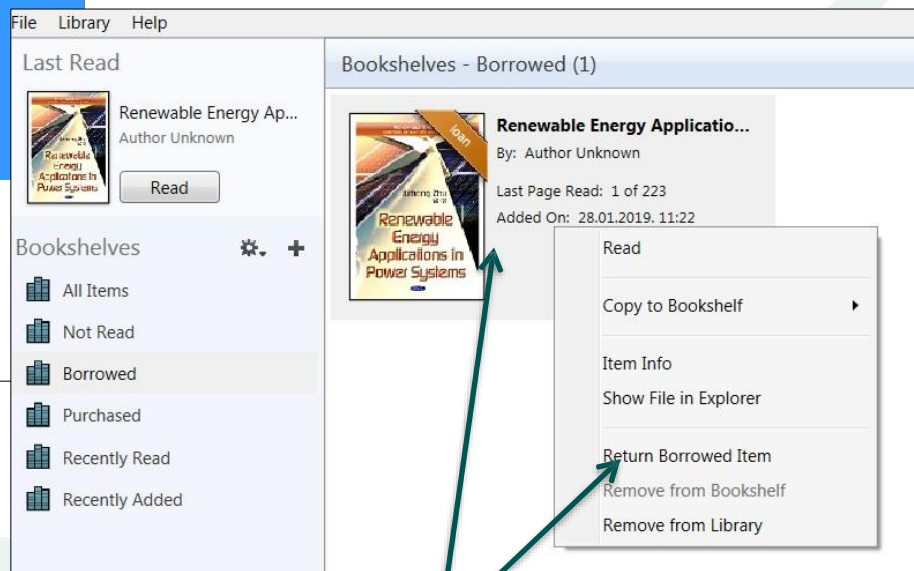
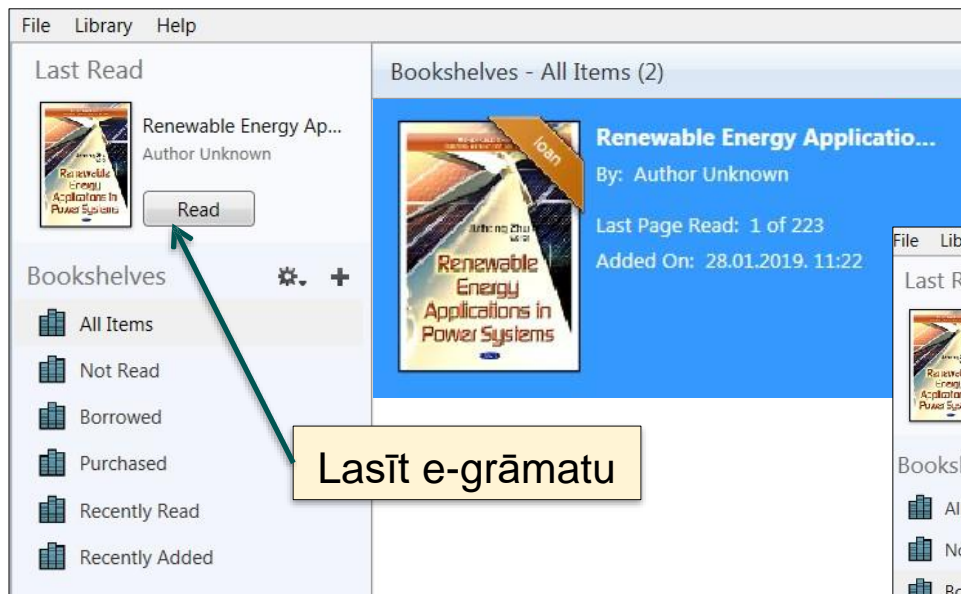
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Table of Contents

- RENEWABLE ENERGY APPLICATIONS IN POWER SYSTEMS
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- PREFACE
- ACKNOWLEDGEMENTS
- Chapter 1: FUNDAMENTALS OF POWER SYSTEMS
- Chapter 2: RENEWABLE ENERGY BASICS**
- Chapter 3: DISTRIBUTED GENERATION TECHNOLOGIES
- Chapter 4: ENVIRONMENTAL IMPACT OF RENEWABLE ENERGY
- Chapter 5: RESEARCH AND DEVELOPMENT OF SOLAR ENERGY
- Chapter 6: RESEARCH AND DEVELOPMENT OF WIND ENERGY
- Chapter 7: ANALYSIS OF THE GRID-CONNECTED PHOTOVOLTAIC SYSTEMS
- Chapter 8: DISTRIBUTION NETWORK PROTECTION AND REPAIR
- Chapter 9: OPERATING PRINCIPLES OF WIND POWER
- Chapter 10: VOLTAGE STABILITY ANALYSIS IN POWER SYSTEMS
- Chapter 11: APPLICATION OF INTELLIGENT METHODS TO POWER SYSTEMS
- AUTHOR BIO
- INDEX

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Chapter 2

RENEWABLE ENERGY BASICS

Jizhong Zhu

Chongqing University, China and Alstom Grid, US

2.1. INTRODUCTION

Electricity can be made from a variety of energy sources. Most of countries currently rely heavily on coal, oil, and natural gas for their energy. Fossil fuels were formed underground over millions of years. They are nonrenewable, finite resources; once used they are gone and can not be replaced, that is, they draw on finite resources that will eventually dwindle, becoming too expensive or too environmentally damaging to retrieve. In contrast, *renewable energy* resources—such as solar energy and wind—are constantly replenished and will never run out. Most renewable energy sources originate either directly or indirectly from the sun. They are continually replenished, literally, as long as the sun continues to shine. Generally, there are five renewable sources used most often that are:


- Solar
- Wind
- Water (hydropower)
- Biomass — including wood and wood waste, municipal solid waste, landfill gas, and biogas, ethanol, and biodiesel
- Geothermal

The reasons that the renewable energy is important are:

- To reduce the consumption of oil and gas. Oil and gas are getting harder and more expensive to find and bring out of the ground. To reduce cost and increase our energy security, we need to use local renewable resources.
- To protect our environment and reduce our impact on global warming. Burning fossil fuels creates carbon dioxide and other emissions that cause global warming.

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