Description: Energy Storage discusses the needs of the world's future energy and climate change policies, covering the various types of renewable energy storage in one comprehensive volume that allows readers to conveniently compare the different technologies and find the best process that suits their particularly needs.

Each chapter is written by an expert working in the field and includes copious references for those wishing to study the subject further. Various systems are discussed, including mechanical/kinetic, thermal, electrochemical and other chemical, as well as other emerging technologies. Incorporating the advancements in storing energy as described in this book will help the people of the world further overcome the problems related to future energy and climate change.

- Covers most types of energy storage that is being considered today, and allows comparisons to be made
- Each chapter is written by a world expert in the field, providing the latest developments in this fast moving and vital field
- Covers technical, environmental, social and political aspects related to the storing of energy and in particular renewable energy

Contents:

The role of energy storage in low-carbon energy systems

Pumped Hydro-electricity

Novel Hydroelectric Storage Concepts

Advance Rail Energy Storage (ARES)

Compressed Air Energy Storage (CAES)

Compressed Air Energy Storage (CAES) with Underground Storage

Underwater Compressed Air Energy Storage (CAES)

Pumped Hydro Combined with Compressed Air

Liquid Air Energy Storage: (LAES)

Flywheels

Rechargeable Batteries

The Vanadium Redox Flow Batteries

Phase Changes

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Power-to-Gas

Traditional Energy Storage: natural gas, oil and coal
Large Scale Hydrogen Storage
Network Integration and Smart Grids
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Politics of Investing in Renewable Energy Systems

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