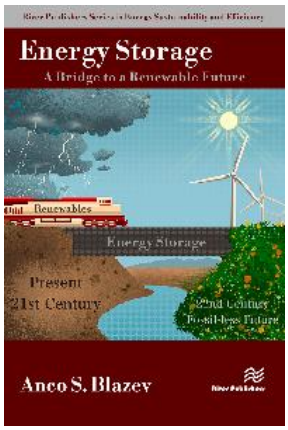

River Publishers Series in Energy Sustainability and Efficiency

Energy Storage - A Bridge to a Renewable Energy Future

The Only Path to Clean, Reliable, and Safe Energy

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Description:

Energy storage is a new technology; a complex and powerful tool that brings a new dimension to the use of renewable energy technologies, as well as to the old electric power generation, power transmission, and power distribution sectors.

Energy storage is the key to our future energy and national security, and clean global environment. Why? Well, this is what we discuss in this book – in the greatest detail and simplest (technical) language possible.

Energy storage is extremely important to our energy future, so the ultimate goal of this book is to provide a clear understanding of everything energy storage, as needed to complete its role of a bridge to our renewable, clean, and safe energy future.

Yes, the most important role of energy storage is to replace the fossils by bringing the renewable energy sources (solar and wind in particular) to the main stream of power generation in the U.S.A. and the world.

Keywords: Energy storage, energy storage facilities, power plants, power generation, power transmission, power distribution, power grid, lithium ion, alternative energy, Li-ion battery, lithium, flow battery, disrupters, fossil fuels, fossils, renewables, renewable energy, transition from fossils to renewables, energy types, residential energy storage, commercial energy storage, utility energy storage, battery cell, battery module, battery pack, C-rate, E-rate, discharge rate, battery basics, system controls, energy efficiency, system efficiency, transport storage, demand response, power rating, energy capacity, efficiency, ramp rate, frequency regulation, specific power, power density, cycle life