

1. Record Nr.	UNINA9910476769503321
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Titolo	Renewable Energy : : Resources, Challenges and Applications / / Mansour Al Qubeissi, Ahmad El-kharouf
Pubbl/distr/stampa	2020 [s.l.] : , : IntechOpen, , 2020
ISBN	9781839621550 1839621559
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1 p.)
Soggetti	Technology & Engineering / Power Resources / Alternative & Renewable Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	The demand for secure, affordable and clean energy is a priority call to humanity. Challenges associated with conventional energy resources, such as depletion of fossil fuels, high costs and associated greenhouse gas emissions, have stimulated interests in renewable energy resources. For instance, there have been clear gaps and rushed thoughts about replacing fossil-fuel driven engines with electric vehicles without long-term plans for energy security and recycling approaches. This book aims to provide a clear vision to scientists, industrialists and policy makers on renewable energy resources, predicted challenges and emerging applications. It can be used to help produce new technologies for sustainable, connected and harvested energy. A clear response to economic growth and clean environment demands is also illustrated.