

1. Record Nr.	UNINA9910141646803321
Titolo	Renewable energy [[electronic resource]] : sustainable concepts for the energy change // edited by Roland Wengenmayr and Thomas Bührke
Pubbl/distr/stampa	Weinheim, : Wiley-VCH Verlag GmbH & Co. KGaA, 2013
ISBN	3-527-67134-X 1-299-24124-7 3-527-67137-4
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (172 p.)
Altri autori (Persone)	WengenmayrRoland BührkeThomas
Disciplina	333.794
Soggetti	Renewable energy sources Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Title Page; Foreword; Preface; First-hand Information; Contents; Renewable Energy Sources - a Survey; A Tailwind for Sustainable Technology; Flowing Energy; How the Sun gets into the Power Plant; Solar Cells - an Overview; Solar Cells from Ribbon Silicon; Low-priced Modules for Solar Construction; On the Path towards Power-Grid Parity; Energy from the Depths; Green Opportunity or Danger?; Twists and Turns around Biofuels; Concentrated Green Energy; Synthetic Fuels from the Biomass; Electric Power from Hot Air; Sun, Moon and Earth as Power Source; Energy Reserves from the Oceans; Salty vs. Fresh WaterPower from the Desert; Hydrogen: An Alternative to Fossil Fuels?; Heat on Call; Taming the Flame; Electric Automobiles; Cooling with the Heat of the Sun; A Super Climate in the Greenhouse; An Exceptional Sustainability Concept; The Allure of Multicolored Images; Subject Index
Sommario/riassunto	In the years since the publication of the first edition of this book, the world has undergone drastic changes in terms of energy sources. This is reflected in the expansion of this second edition from 20 to 26 chapters. The most dramatic occurrence was the Tsunami which struck Japan in March of 2011 and set off a reactor catastrophe at the nuclear

power plants in Fukushima. On the other hand fossil fuel technology drives the climate change to a threatening level. So, renewable energy sources are essential for the 21st century. The increasing number of wind power plants, solar collectors and
