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Titolo	Advances in Sustainable Energy // edited by Ahmad Vasel, David S-K. Ting
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ISBN	3-030-05636-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (216 pages)
Collana	Lecture Notes in Energy, , 2195-1284 ; ; 70
Disciplina	338.927
Soggetti	Renewable energy resources Power electronics Energy storage Energy policy Energy and state Natural resources Renewable and Green Energy Power Electronics, Electrical Machines and Networks Energy Storage Energy Policy, Economics and Management Natural Resource and Energy Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Sustainable Energy: What, Why, and How? -- Wind Energy, The Way Forward -- Solar Energy, The Future Ahead -- Solar Absorption, Absorption, Bubbling Pump Air Conditioning -- Geothermal, Claiming its Fair Share -- Offshore Renewables, No Longer Remote -- Greenhouses of Tomorrow -- Building Façade, Solar and HVAC -- Energy Storage, The Better Half of Future Energy -- Offshore Gardening, Floating Greenhouse, Underwater Vegetation with Fishery -- Water, and its Energy Connection -- What Else is Emerging from the Horizon?
Sommario/riassunto	This book reveals key challenges to ensuring the secure and sustainable production and use of energy resources, and provides

corresponding solutions. It discusses the latest advances in renewable energy generation, and includes studies on climate change and social sustainability. In turn, the book goes beyond theory and describes practical challenges and solutions associated with energy and sustainability. In particular, it addresses: · renewable energy conversion technologies; · transmission, storage and consumption; · green buildings and the green economy; and · waste and recycling. The book presents the current state of knowledge on renewable energy and sustainability, supported by detailed examples and case studies, making it not only a cutting-edge source of information for experts and researchers in the field, but also an educational tool for related undergraduate and graduate courses. .
