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Titolo	Clean energy for sustainable development [[e-book]] : comparisons and contrasts of new approaches / / edited by Mohammad G. Rasul, Abul Kalam Azad, Subhash Sharma
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Sustainable energy resources: prospects and policy -- Environmental impact assessment of different renewable energy resources: a recent development -- Clean and sustainable energy technologies -- Bioenergy with carbon capture and storage (BECCS): future prospects of carbon-negative technologies -- Solar Kilns: a green technology for the Australian agricultural and forest industries -- Small-scale dish-mounted solar thermal Brayton cycle -- Heat-driven cooling technologies -- Solar pyrolysis: converting waste into asset using solar energy -- Grid integration of wind energy systems: control design, stability, and power quality issues -- The hybrid solar power/wind system for energy production, observation, application, and simulation -- Study on wind energy potential by eight numerical methods of Weibull distribution -- Prospect of the legume tree Pongamia pinnata as a clean and sustainable biodiesel feedstock -- Biodiesel from Queensland Bush Nut (Macadamia integrifolia) -- Assessment of physical, chemical, and tribological properties of different biodiesel fuels -- Biodiesel production through chemical and biochemical transesterification: trends, technicalities, and future perspectives -- Mesoporous catalysts for biodiesel production: a new approach -- Edible and nonedible biodiesels feedstocks: microalgae and future of

	biodiesel -- Potential of biodiesel as fuel for diesel engine
Sommario/riassunto	Clean Energy for Sustainable Development: Comparisons and Contrasts of New Approaches presents information on the fundamental challenge that the energy sector faces with regard to meeting the ever growing demand for sustainable, efficient, and cleaner energy. The book compares recent developments in the field of energy technology, clean and low emission energy, and energy efficiency and environmental sustainability for industry and academia. Rasul, Azad and Sharma, along with their team of expert contributors, provide high-end research findings on relevant industry themes, including clean and sustainable energy sources and technologies, renewable energy technologies and their applications, biomass and biofuels for sustainable environment, energy system and efficiency improvement, solar thermal applications, and the environmental impacts of sustainable energy systems. This book uses global institutes and case studies to explore and analyze technological advancements alongside practical applications. This approach helps readers to develop and affirm a better understanding of the relevant concepts and solutions necessary to achieve clean energy and sustainable development in both medium and large-scale industries. Compares in-depth research on a wide range of clean technologies, from global institutes in Australia, Europe, and India Evaluates the recent developments in clean technologies against the efficiency of tried and tested applications Considers case studies on the advancements of sustainable energy into industry from around the world