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Nota di contenuto	Can Ocean Thermal Energy Conversion and Seawater Utilisation Assist Small Island Developing States? A Case Study of Kiribati, Pacific Islands Region / by Michael G. Petterson and Hyeon Ju Kim -- The Social Energy: Contexts for Its Assessment / by Alonso Perez Perez, Mauricio Latapi Agudelo and Graciela Rivera Camacho -- Current Development and Prospect of Turbine in OTEC / by Weimin Liu, Yunzheng Ge, Lei Liu and Yun Chen -- Novel OTEC Cycle Using Efficiency Enhancer / by Hosaeng Lee, Seungtaek Lim, Jungin Yoon and Hyeonju Kim -- Analysis and Development of Closed Cycle OTEC System / by Estela Cerezo Acevedo, Jessica G. Tobal Cupul, Victor M. Romero Medina, Elda Gomez Barragan and Miguel Angel Alatorre Mendieta -- Research and Development Activities of Ocean Thermal Energy-Driven Development in Malaysia / by A. Bakar Jaafar, Mohd Khairi Abu Husain and Azrin Ariffin -- General Criteria for Optimal Site Selection for the Installation of Ocean Thermal Energy Conversion (OTEC) Plants in the Mexican Pacific / by Alejandro Garcia Huante, Yandy Rodriguez Cueto, Erika Paola Garduno Ruiz and Ricardo Efrain Hernandez Contreras --

Environmental Impact Assessment of the Operation of an Open Cycle OTEC 1MWe Power Plant in the Cozumel Island, Mexico / by Enrique Celestino Carrera Chan, Maria Fernanda Sabido Tun, Juan Francisco Barcenas Graniel and Estela Cerezo Acevedo.

Sommario/riassunto

The 21st century is characterized as an era of natural resource depletion, and humanity is faced with several threats due to the lack of food, energy, and water. Climate change and sea-level rise are at unprecedented levels, being phenomena that make predicting the future of ocean resources more complicated. Oceans contain a limitless amount of water with small (but finite) temperature differences from their surfaces to their floors. To advance the utilization of ocean resources, this book readdresses the past achievements, present developments, and future progress of ocean thermal energy, from basic sciences to sociology and cultural aspects.
