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Nota di contenuto	1. Nuclear power: waste or fuel? / Raymond Wisenbourg -- 1.1 Introduction -- 1.2 Nuclear waste -- 1.3 Nuclear fuel reprocessing -- 1.4 Nuclear fuel disposal -- 1.5 Conclusion -- References -- 2. Small hydroelectric plants / Chad Kaleky -- 2.1 Introduction to hydropower -- 2.2 Diversity of hydropower plant design -- 2.3 Small hydroelectric power plants in use -- 2.4 Design of small hydroelectric power plants -- 2.5 Automatic controls in small hydroelectric plants -- 2.6 Environmental impact -- 2.7 Small hydropower utilization -- 2.8 Generators in hydropower systems -- 2.9 Electricity production using current water supply system -- 2.10 Conclusion -- References -- 3. Small wind turbine applications and market analysis / Tyler Lovelle -- 3.1 Introduction -- 3.2 Discussion -- 3.3 Conclusion -- References -- 4. Organic photovoltaics / Nick Evangelista -- 4.1 Introduction -- 4.2 Status and perspectives -- 4.3 Discussion and conclusion -- References -- 5. Increasing diversity of renewable energy through tidal water power / Benton Patterson -- 5.1 Introduction -- 5.2 Types of tidal water power generation -- 5.3 Placing tidal water power stations -- 5.4 Engineering

challenges of tidal power -- 5.5 Conclusion -- References --

6. Natural gas resources in the world / William David Sanchez -- 6.1 Introduction -- 6.2 Natural gas -- 6.3 Available resources -- 6.4 Discussion and conclusion -- References --

7. Deep sea oil drilling and its future / Jonathan Smirles -- 7.1 Introduction -- 7.2 BP's project 2K -- 7.3 Discussion and conclusion -- Acknowledgments -- References --

8. Harvesting geothermal energy from oil wells and other unexpected sources / James Johnston -- 8.1 Introduction -- 8.2 Geothermal energy -- 8.3 Issues with greenhouse gases -- 8.4 Conclusion -- References --

9. Nanotechnology in the energy industry / Michael Greene -- 9.1 Introduction -- 9.2 Energy harvesting and conversion -- 9.3 Energy storage -- 9.4 Conclusion -- References --

10. Offshore wind power and related immature technologies / Yuri Bhardwaj -- 10.1 Introduction -- 10.2 History -- 10.3 Today -- 10.4 Utilization -- 10.5 How it works -- 10.6 Discussion -- 10.7 Conclusion, immature offshore wind technologies -- References --

11. Industrial sector energy efficiency / Carlos Upegui -- 11.1 Introduction -- 11.2 Importance of energy -- 11.3 Energy efficiency -- 11.4 Energy system perspective -- 11.5 Improving energy efficiency -- 11.6 Principles of implementation -- 11.7 Barriers to energy efficiency -- 11.8 Factors influencing energy efficiency -- 11.9 Rebound effect -- 11.10 Policies promoting energy efficiency -- 11.11 Conclusion -- References --

12. Commercial sector energy efficiency / Refael Listman -- 12.1 Introduction -- 12.2 Trends in commercial sector energy consumption in recent decades -- 12.3 Trends in innovations in energy efficient technology for commercial sector use -- 12.4 Do these energy efficient innovations lead to true energy savings? -- 12.5 Adoption of energy-efficient innovations in the commercial sector -- 12.6 A focus on the example of semitransparent PV window treatments -- 12.7 Discussion and conclusions -- References --

13. Agricultural sector energy efficiency / Stephen J. Leonard -- 13.1 Introduction -- 13.2 Overview of agriculture in the United States -- 13.3 Measuring energy efficiency in the agricultural sector -- 13.4 Improving agricultural sector energy efficiency: decreasing energy inputs -- 13.5 Improving agricultural sector energy efficiency: increasing energy outputs -- 13.6 A call to action: the future of energy efficiency in the agricultural sector -- References --

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Sommario/riassunto

A collection of essays by the same number of engineers. They show a variety of viewpoints and diversity. This collection is meant to incite and excite conversation among engineers, scientists, and society at large. It would serve as a catalyst for a three-credit course as an introductory engineering subject to non engineering university students. As university education develops to better prepare future leaders to appreciate science, technology, engineering, and mathematics, engineering courses for non engineering majors are essential and so is the requirement of worthy textbooks. This monograph intends to be one of the useful tools available. The wide range of topics includes nuclear power, small hydroelectric plants, wind turbines, and organic photovoltaics. Nanotechnology, natural gas, and deep sea oil drilling have also been presented. Energy efficiency has been called the "fifth fuel" and these topics have been covered. The four hydrocarbon fuels are oil, coal, natural gas, and biofuel.
