

Lecture Notes in Energy 4

Mitsutsune Yamaguchi *Editor*

Climate Change Mitigation

A Balanced Approach to Climate Change

Climate change is mainly caused by emissions of carbon dioxide when burning fossil fuels, which provides more than 85% of the primary energy of the world. Strategies for mitigating climate change are closely connected with how to handle economic and social activities through their effects on the use of energy. *Climate Change Mitigation* takes a comprehensive approach to investigate and evaluate response strategies using both a vertical balance approach and a horizontal balance approach. The former investigates the costs of mitigation measures in comparison to benefits of implementing them, while the latter compares the effects of implementing mitigation measures on various aspects such as global environment, energy security and energy economy.

“For 20 years, diplomats have struggled to make progress on global climate change. Some of their difficulties stem from the fact that global diplomacy is not well-linked to the realities of how nations and firms control emissions and adapt to the impacts of a changing climate. In this excellent book, Mitsutsune Yamaguchi has assembled an all-star team of experts to guide the redesign of global policy. The authors underscore how global warming efforts must resonate with other policy goals.”

–David G. Victor, Director, Laboratory on International Law and Regulation and Professor at University of California San Diego

“*Climate Change Mitigation* clarifies that climate change cannot be controlled by sacrificing economic growth or other urgent global problems; however, action to control climate change cannot be delayed. Climate policy is pervasive and affects all dimensions of international policy; but it cannot be too ambitious: a balanced approach between mitigation and adaptation, economic growth and resource management, and short term development efforts and long term innovation investments, should be adopted.”

–I recommend its reading. Carlo Carraro, President, Ca’ Foscari University of Venice

“The International Energy Agency estimates for every \$1 of investment today toward sustainable energy, \$4 of future spending can be avoided. There is a business case for companies to reduce their energy use. Companies in the energy and resource intensive industries must lead the way. The Prius hybrid EV in automotive sector is an example. Other leading companies must find a way to follow.”

–Chad Holliday, Chairman, World Business Council for Sustainable Development and former Chair and CEO of DuPont

Engineering

ISBN 978-1-4471-4227-0



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