

<<通向可持续发展的亚洲>>

图书基本信息

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前言

Vision of the Association of Academies of Sciences in Asia (AASA) is to provide a forum to discuss and provide advice on issues related to science and technology and the application of technology for national development. During the year 2008, two workshops were organized by AASA in Beijing. These workshops were devoted to sustainable energy development in Asia. This report was based on presentation paper and meeting discussion. The whole project is coordinated by Prof. Wang Yi from the Chinese Academy of Sciences and Prof. Namik K. Aras, the secretary general of AASA, from the Turkish Academy of Sciences. The energy group work is coordinated by Prof. Yan Luguang from China and Prof. Seung Mo Oh from Republic of Korea. Yan Luguang, Seung Mo Oh, Alvin B. Culaba, Andrei G. Korzhubaev, Bundit Fungtammasan, Harsh Gupta, Hassan Zohoor, Huang Changgang, Indral K. Perera, Lee Yee Cheong, M. Shamsher Ali, Mahmood Yaghoubi, Muhammad Yahaya, Oktay Kerimov, Rishi K. B. Shah, Saran Solongo and Volkan S. Ediger participated in the writing of this report. Indral K. Perera made a contribution to amending English writings. This report is inevitable to be imperfect due to the limitation of knowledge and time of the Study Group. Comments and corrections are welcomed.

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内容概要

本书由亚洲科学院所属14个国家17名专家讨论研究、撰写而成。

本书概述了亚洲能源发展的基本状况，详细介绍了亚洲各国一次能源的生产与消费，石油、天然气、煤炭、核能、可再生能源的构成，各国发电装机容量及发电量，能源效率，主要国家的碳排放等。概括了亚洲能源发展的主要特征，指出亚洲能源发展面临着诸多挑战，提出亚洲能源可持续发展的主要建议。

本书列出了反映亚洲各国能源状况的多种图表，便于阅读比较。

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章节摘录

(1) To establish a sustainable energy system for Asia is the main objective and guide line for the future development. Sustainability means the exploitation of natural resource for the generation of energy within acceptable levels of global resource depletion and environmental pollution, but without destroying the ecological balance of the earth. The system could provide sufficient, reliable energy to cover the necessary consumption requirement. This approach will significantly reduce the fossil energy dependence and will lead to a large increase of non-carbon nuclear and renewable energy percentage. Each country should establish its own energy indicators for sustainable development, and formulate strategies that will continuously improve them. (2) High priority should be given to the energy saving and the enhancement of the efficiency to reduce as high as possible the total energy consumption requirement. All countries should develop and implement policies and regulation to achieve significant energy saving and greater energy efficiency for all processes, service and products. The main areas that should be targeted for energy saving are industry, transportation, building and commercial establishments. It is especially important to enhance the dissemination of technology improvement and innovation between industrialized and developing countries, so that the developing countries can adopt cleaner and more efficient technologies as their industrialized counterparts.

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