

图书基本信息

书名：<<中国至2050年生态与环境科技发展路线图>>

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## 前言

CAS is the nation's think tank for science. Its major responsibility is to provide S&T consultations for the nation's decision-makings and to take the lead in the nation's S&T development. In July, 2007, President Yongxiang Lu made the following remarks: "In order to carry out the Scientific Outlook of Development through innovation, further strategic research should be done to lay out a S&T roadmap for the next 20-30 years and key S&T innovation disciplines. And relevant workshops should be organized with the participation of scientists both within CAS and outside to further discuss the research priorities and objectives. We should no longer confine ourselves to the free discovery of science, the quantity and quality of scientific papers, nor should we satisfy ourselves simply with the Principal Investigators system of research. Research should be conducted to address the needs of both the nation and society, in particular, the continued growth of economy and national competitiveness, the development of social harmony, and the sustainability between man and nature." According to the Executive Management Committee of CAS in July, 2007, CAS strategic research on S&T roadmap for future development should be conducted to orchestrate the needs of both the nation and society, and target at the three objectives: the growth of economy and national competitiveness, the development of social harmony, and the sustainability between man and nature.

## 内容概要

As one of the eighteen field-specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences, this sub-report addresses long-range planning for developing science and technology in the field of ecological and environmental science. They each craft a roadmap for their sphere of development to 2050. In their entirety, the general and sub-group reports analyze the evolution and laws governing the development of science and technology, describe the decisive impact of science and technology on the modernization process, predict that the world is on the eve of an impending S&T revolution, and call for China to be fully prepared for this new round of S&T advancement. Based on the detailed study of the demands on S&T innovation in China's modernization, the reports draw a framework for eight basic and strategic systems of socio-economic development with the support of science and technology, work out China's S&T roadmaps for the relevant eight basic and strategic systems in line with China's reality, further detail S&T initiatives of strategic importance to China's modernization, and provide S&T decision-makers with comprehensive consultations for the development of S&T innovation consistent with China's reality. Supported by illustrations and tables of data, the reports provide researchers, government officials and entrepreneurs with guidance concerning research directions, the planning process, and investment. Founded in 1949, the Chinese Academy of Sciences is the nation's highest academic institution in natural sciences. Its major responsibilities are to conduct research in basic and technological sciences, to undertake nationwide integrated surveys on natural resources and ecological environment, to provide the country with scientific data and consultations for government's decision-making, to undertake government-assigned projects with regard to key S&T problems in the process of socio-economic development, to initiate personnel training, and to promote China's high-tech enterprises through its active engagement in these areas.

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## 章节摘录

插图：Environmental Technologies Action Plan was designed to eliminate obstacles to develop environmental technology in an all-round way, protect the environment and promote contestability and economic growth, and to ensure EU's leading role among developing countries and application of environmental technology, as well as to mobilize every effort to support such plan. In order to effectively implement such action plan, EU has studied the environmental technology in such three key: R&D and the market, improvement of market operation and global operations. With the growth of the global economy and pressures on natural resources, existing techniques are not enough to meet requirements for the sustainable development. Thus, such action plan advocated to absorb more private and public investment to be used for development and demonstration of the environmental technology and promotion of innovations, so as to bring inventions and creations in laboratories to the market. EU adopted the following two major innovation actions: to set up the technical platform and the testing network, which is designed to know how to establish the private and public partnerships and how to make researches closer to the market. EU's existing member states and Norway have formulated roadmaps for implementation of the Environmental Technologies Action Plan. For example, in Spain's roadmap, climate change, urban sustainability, improvement of the production process, water, energy and transportation are regarded as priority areas in implementation of such roadmap.

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