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世界未来纵横说

山西经济出版社

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书 名:世界未来纵横说

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出版者:山西经济出版社(太原市并州北路11号。

邮码:030001 • 电话:4044102)

发行者:新华书店北京发行所

印刷者:山西人民印刷厂

开 本:850×1168 1/32

印 张:10

字 数:231 千字

印 数:0001-2 500 册

版 次:1996年5月第1版 1996年5月第1次印刷

书 号:ISBN 7-80577-955-4/F・954

定 价:16.00元

责任编辑:赵建廷 张惠君 社长:陈字华 总编:张凤山

《生态经济丛书》总序

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世纪之交正向我们走来。在中国的大地上奏响了两个时代 的强音。一个是来自国际社会的声音,世界人民将迈着怎样的 步伐走向 21 世纪? 1992 年 6 月在巴西里约热内卢召开的"环境 与发展"世界首脑会议,通过的《里约宣言》和《21世纪议 程》,表明各国政府达成了一个共识,经济发展必须与环境保护 相协调,必须加强国际合作,全面实施全球的可持续发展战略。 中国在世界上率先履行这项国际责任和义务, 1994年3月25 日国务院通过了《中国 21 世纪议程——中国 21 世纪人口、环 境与发展白皮书》。中国人民将以实际行动积极参加国际合作, 与世界各国人民共同保护好地球环境,创造一个能让人类安居 乐业的家园。另一个是来自中国社会的声音:中国人民将以什 么样的姿态迎接新时代? 1995年9月28日中国共产党第十四 届中央委员会第五次全体会议通过的《中共中央关于制定国民 经济和社会发展"九五"计划和 2010 年远景目标的建议》,提 出了全面实现达小康目标的第二步战略任务,并向第三步战略 目标迈出重大步伐,为下世纪中叶基本实现现代化奠定坚实的

基础。这个纲领性的文件,为中国人民展示了跨世纪的宏伟蓝图,指明了迎接新时代的方向。

生态与经济协调发展,是当今国际社会普遍关注的重大问题,也是人类生存和社会前进的永恒主题。可持续发展战略的目标,就是要把世人梦寐以求的这个主题,通过能够遵循的纲领,能够实施的方案,能够执行的政策,能够操作的方法,实现既能满足当代人的需求而又不对满足后代人需求的能力构成危害,既能满足一个国家、一个地区的需求,而又不对其他国家和地区的需求造成危害的新时代。

这套《生态经济丛书》(下简称《丛书》)就是为了响应时代强音的呼唤,面向广大群众,宣传普及当代最新的一门科学知识——生态经济学,希望有更多的人掌握这门科学,为实现中国的现代化目标乃至全球的可持续发展战略目标而努力奋斗。这就是我们组织编写这套《丛书》的宗旨。

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生态经济学是现代科学技术进步的象征。

它是由生态学和经济学相互交叉、渗透、有机融合而成的一门新兴综合性学科。它的研究对象是生态经济系统。它把自然生态系统与社会经济系统视为一个整体并揭示其相互作用的规律性。这是人类认识客观世界的一个飞跃。本世纪 50 年代以来,世界性人口猛增、环境污染、食物短缺、能源紧张、资源破坏等,形成了令人震惊的环境问题,向人类敲响了环境危机的警钟。随之世界上出现了第一次为拯救人类生存环境危机的科普宣传高潮。在短短的 20 年里,一大批论述人口、环境、资源方面的科普著作和理论专著,如《寂静的春天》、《封闭的循

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环》、《只有一个地球》、《2000年的忧虑》、《立足于地球》、《增长的极限》、《一门科学——生态经济学》、《我们需要一门新的经济学》以及《生存的蓝图》等相继问世。同时形成了广泛动员和广泛参与的大讨论,并且对人类未来前景的看法,大体形成了比较悲观的和比较乐观的两种思潮。不同观点的争论归结到一点:人类能不能从环境危机中拯救自己而且生活得更好。生态经济学就是在这样的国际社会背景下应运而生的。

美国经济学家肯尼斯·鲍尔丁是国际生态经济学的创立人,他在 60 年代发表的《宇宙飞船经济学》一文中,把人类赖以生存的地球比喻为茫茫宇宙中的一个渺小的太空船,警告人们:不能继续贪得无厌地消耗它的自然资源了,否则它就会很快失去控制!他提出的节约地利用资源,控制好飞船航向的主张,引起了世界的巨大反响,涌现出包括前苏联经济学家梅林斯基,和英国生态学家爱得华·哥尔德史密斯、罗马俱乐部创始人意大利奥雷利奥·佩西博士、中国经济学家许涤新教授、日本池田大作博士等一代国际著名生态经济学家。

当代科学技术的巨大进步,人类认识世界的不断突破,推动了生态经济学的发展。从 1984 年 10 月联合国环境发展委员会召开首次会议,提出《从一个地球到一个世界》的报告,到 1990 年 5 月成立国际生态经济学会,人们达到了一个共识,就是人类必须建立一个持续发展的经济社会。生态经济学的理论核心就是持续发展思想。这就为人类解脱生态环境危机提供了新的发展思维和新的发展对策,从而改变了人们对世界未来的悲观看法。

最值得庆幸的是,联合国把可持续发展战略作为全球的共同战略,纳入了国际决策,变成了世界各国政府的行动纲领,这

标志着生态经济学已经成为当代乃至 21 世纪的主流经济学科。 与此相适应,第二次环境与发展的科普宣传高潮也在到来。这 次宣传的重点,将由唤醒世人危机的警钟,转为鼓舞世人进军 的号角,在拯救环境危机中创建美好家园。

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我们推出这套《丛书》就是为了顺乎时代潮流的昭示,参与第二次环发科普宣传新高潮,充当向新世纪进发鸣锣开道的 号角,启迪和引导人们走上以生态经济科学为指导的可持续发展之路。

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传播和普及科学知识、科学思想和科学方法,提高全民族科技文化素质,是推进中国现代化建设、实施可持续发展战略的前提,也是中华民族强盛的基础。这套《丛书》就是为了适应这一需求,采用客闻乐读的形式和题材,从多角度、多侧面、多方位,阐述评介生态经济学的产生背景、思想渊源、观点论据、理论核心、战略对策以及实证案例。从而达到用这门科学理论武装人们,提高环境意识和生态觉悟,鼓舞人们自觉自愿地投身到保护生态、保护环境、发展经济、创建未来的伟大事业中去。

这套《丛书》放眼世界、面向未来。它是在当代生态经济 学理论研究成果的基础上,借鉴吸收了生态农业、生态工业、生 态城市、生态技术、生态伦理、生态教育、生态哲学、生态医 学以及人口生态学、灾害经济学等多分支学科的思想精华和实 验结晶,综合归纳而成的一部比较全面、比较系统的理论探讨 与实证分析相结合的科普专著。特别是把中国和山西省域作为 实证案例,既充实丰富了《丛书》的内容,又突出显示了它的 特色。世人皆知,中国是地球家园中的一个最大的古老家族,山 西省域又是中华民族的摇篮,这两个案例不仅在人类文明与环 境演变方面具有代表性,而且在现代社会与生态资源循环作用 方面也具有典型意义。中国正处于传统社会向现代社会全面推 进的转型时期,经济社会的迅速发展,使得环境、生态和资源 面临着巨大的压力。在中国,特别是在以煤炭能源工业为主导 产业的山西省域,把保护环境、生态和资源与经济增长方式的 根本转变紧密结合起来,尤为重要和迫切。

这套《丛书》的内容结构包括 10 个方面或侧面,也就自然构成了相互联系又相对独立的各有侧重的 10 册专著。虽然每册专著都保持了各自的内涵、外延和风格,但是它们都具有理论性、知识性、经验性、政策性和资料性的共同特点。所以,可供领导决策、科学研究、理论教学、业务工作以及广大读者参考阅读。

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生态经济学作为一门新兴的学科进行科学实验,在国际上仅仅有 20 多年,在中国也不过 10 多年的历史,虽然已经取得了丰硕的理论成果和实践经验,而且被世人公认为当代和未来的主流经济学科,但是,它毕竟是一个正在成长积累过程中的年轻学科。在理论和方法的诸多领域,还有待于开拓和深入,需要继续完善和发展。在《中国 21 世纪议程》公布之后,中国科学院于 1994 年 6 月编制了《中国 21 世纪议程中国科学院优选项目计划》,初步确定了 11 个优先领域、140 多个优选项目。中国社会科学院于 1995 年 5 月也成立了生态与环境经济研究中心。这就标志着生态经济学研究,从哲学思辩进入了应用研究

和实证分析的新阶段。技术创新理论、产权经济学、制度经济 学将成为解决和解释生态经济问题的主要工具,能量转换中的价值流分析将成为生态经济学研究的核心问题。诸如此类的新 动态、新成果和新观点,没有也不可能都写进《丛书》中去。

编写这套《丛书》的倡议,是在 1993 年初山西省生态经济学会成立暨首次学术讨论会上提出来的,随即得到了山西省领导同志和富有经验的老领导、老专家的大力支持,中国生态经济学会、中国林学会、中国农经学会、中国科学院、中国社会科学院、中国人民大学等学术权威单位的著名学者、专家和教授热情鼓励、精心指导;山西经济出版社的领导热心帮助策划;山西省 20 多个单位的 60 多位领导、专家和学者鼎力合作,经过一年酝酿筹划,两年撰写、统编,基本完成了《丛书》的编写出版任务。在此特向所有为《丛书》编写出版付出辛劳的各位女士和先生,表示衷心感谢。

这套《丛书》无论在理论观点和知识体系方面,还是在论 据资料和引证案例或其他方面,都会有错误、疏漏和不当之处, 恳请广大读者批评指正。

《生态经济丛书》编委会

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A General Preface To The Ecological Economics Series

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Coming to the turn of the century, we hear two voices echoing throughout China. An international voice is: what steps will the people of the world take to the 21st century? The Rio Declamation and the 21st Century Agenda, passed at the world summit on " environment and development" in Brazil's Rio de Janeiro in the June of 1992, indicates that all the nations have agreed on a common sense: economic development ought to be made in concordance with environmental protection, and international cooperations should be strengthened to fully execute the strategy for possible continuous development. China went ahead to take up her international responsibility and obligation that on the 25th of March in 1994, the State Council passed the 21st Century Agenda By China—A White Paper On Population, Environment And Development Of China In The 21st Century. The Chinese people will

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actually and actively take part in the international cooperations to protect the earth and, hand in hand with all the nations over the world, to create a peaceful and prosperous homeland for the human being. A domestic voice asks: what attitudes will the Chinese people take to the new era? The CPC Central Committee's Proposals On Making The Ninth Five—year Plan Of The National Economic And Social Development And The Future Aims By The Year 2000 brings forth the task of the second stage of the full realization of being well—off and calls for significant steps to the third stage of the strategy so as to lay a firm foundation for the general modernization by the middle of next century. This programmatic document exhibits a splendid blueprint and lights the direction to the new era, for the Chinese people.

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Concordant development of economy with ecology is one of the major subjects of the international attention and also the eternal theme of human existence and social progress. The strategy of possible continuous development aims just to realize this long—cherished theme through feasible and executable guiding principles, plans, policies, and methods to enter into a new era that will meet the demand of the contemporaries but not undermine the capacity to meet the need of the posterity, will meet the demand of a particular country or region but not harm the need of other countries and regions.

This series is designed to, responding to the appealing voices of the times, popularize ecological economics—a most

contemporary scientific study, in hopes of more people to know about ecological economy for the modernization in China and the global strategy for possible continuous development.

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Ecological economics symbols the advancement of modern science and technology.

It is a new comprehensive study intercrossed, interfused or organically integrated by ecology and economics, taking natural system of ecology and social system of economy as a whole to expose the law in the interaction. This is a big leap of man's knowledge of the objective world. Since the 1950's, the shocking environmental problems have appeared with the swelling of world population, environmental pollution, food poverty, energy shortage, and destruction of resources; and the environmental crisis sounds alarm to man. In response to it comes the first climax, in the world, of science popularization to solve the environmental crisis for human survival. Within no more than two decades, a great number of popular science writings and theoretical books got published, such as the Silent Spring, Closed Recycling, Only One Earth, Worries About The Year 2000, Stand On The Earth, Limit On Increasement, A Science - Ecological Economics, We Need New Economics, and Blueprint Of Existence. And in the meanwhile, heated discussions were widely aroused, which re٦

sulted in two general tendencies of pessimism and optimism; different arguments, however, came together to one point: whether or not man can save himself from the environmental crisis and live a better life. Ecological economics came to its natural birth in such international social background.

Kenneth compares the earth, on which human beings are dependent, to a tiny spaceship in the boundless metagalaxy and he warns people that they stop their insatiable consumption of its natural resources otherwise it will be out of control! His suggestions to use resources savingly and control well the direction of the spaceship arouse world—wide responses from many internationally famous ecological economists including British ecologist Edward Goldsmith, Chinese economist Prof. Xu Dixin, Japnese economist Dr. Iketa Otsukuri.

The development of ecological economics is given impetus by the great advancement of contemporary science and technology and by the incessant breakthrough of man's knowledge of the world. From the report of From One Earth To One World at the First Conference of the UN Environment and Development Committee in the October of 1984 to founding of the International Society Of Ecological Economics in the May of 1995, people came to realize unanimously that man must establish an economic society of continuous development. The continuous development is the key concept of the theories of ecological economics. Thus the new thinking and new countermeasure are produced to free man from the environmental cri-

sis and brings brightness to the pessimism on the world future.

It is enormously encouraging that the United Nations has made the strategy for possible continuous development as a global common strategy functioning in the international decisions and principally guiding the national actions; this marks that ecological economics has become the dominant subject of economics of the current and the 21st century as well. Accordingly, the second climax of science popularization on environment and development is coming, with the emphasis on bugling people to act for a beautiful homeland out of the environmental crisis, rather than on alarming them.

This series, answering to the call of the times and joining the second climax of science popularization on environment and development, is a bugle to start people to march on the road of possible continuous development guided by science of ecological economics, to the new century.

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The premise for advancement of the modernizations and implementation of the strategy for possible continuous development in China, and foundation for the prosperity of Chinese nation, lie in spreading and popularizing scientific knowledge, thinking, and method. To meet this requirement is produced this series, which, in popular forms and familiar materials, ٦

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from a variety of perspectives, demonstrates and comments the shaping background, thought source, viewpoint and argumentation, theoretical kennel, strategic countermeasure, and positive cases; this is expected to inform the reader with the science of ecological economics, to raise him in the environmental sense and ecological consciousness, and to encourage him to be willingly committed to the cause of ecological protection, environmental protection, economic development, and construction of future.

This series, based on the theoretical research fruit of contemporary ecological economics, assimilates the quintessence of thoughts and experiments of the science branches such as ecological agriculture, ecological industry, ecological urbanism, ecological technology, ecological ethics, ecological education, ecological philosophy, ecological medicine, and calamity economics, and so on. This fairly comprehensive and systematic special series in combination of theoretical discussion with case analysis pays exceptional attention to China and the region of Shanxi thus to replenish the content and project its uniqueness. China is a biggest ancient family on the earth homeland, as is known to the world, and Shanxi is cradle of Chinese nation; these two cases are not only representative of the evolution of environment and human civilization but also typical of interaction of modern society with ecological resources. At present, China is exactly at the stage of transition from traditional society to modern society in which enormous

pressures come from environment, ecology, and resources. So it is urgently important for China, and especially for Shanxi province, which engages mainly in coal energy industry, to bring environmental protection, ecology, and resources into a close combination with the way of economic growth.

This series covers ten respects or subjects, which naturally results in ten books associative but relatively independent with their particular emphases. Although each book has its own intension, extension, and style, all the writings in the series share the common features theoretically, informationally, experimentally, politically, and documentally. They are expected to be referential to the decision—maker, science student, theoretic teacher, professional worker, and the whole educated reading public as well.

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It is a little more than 20 years in the world, no more than 10 years in China, since ecological economics was, as a new branch of science, put under scientific experiments. It is anyhow a young study at its growing and collecting age, although it has yielded great fruits in theory and experience and got world—widely regarded as a dominant science of the current and the coming centuries. Much is needed to do to spread and deepen, to develop and perfect, in many theoretical and methodological aspects. After publication of the 21st Century

Agenda By China, the China's Science Academy made the Prior Projects Plan Of China's Science Academy Under The 21st Century Agenda By China, which initially chose 11 prior fields and over 140 prior projects. Founding of the Ecological & Environmental Economy Research Center of the Social Science Academy of China in the May of 1995 marked that ecological economics had stepped onto a new stage from philosophical argumentation to positive experiment. And the technical innovation theory, property right economics, and institution economics will be the major tools to explain or tackle the problems of ecological economics; the analysis on the value flow in the energy conversion will be the key subject of ecological economics; such latest information, fruits, and ideas are not yet and cannot yet be touched in this series.

This series was proposed originally at the founding and a-cademic conference of Ecological Economics Society Of Shanxi Province in early 1993. The provincial officials, experienced former leaders, and the veteran specialists gave their immediate support to the proposal, and sincere encouragement and meticulous instructions were rendered by a number of preeminent scholars, specialists, and professors from the academic authorities including the Ecological Economics Society Of China, Forestry Society Of China, Agricultural Economics Society Of China, China's Science Academy, China's Social Science Academy, and Chinese People's University. Leaders of the Shanxi Economic Publishing House lent much kind help to the