

China Economist

RMB80 US \$12

NO.1 March 2006 www.chinaeconomist.com.cn



■ Trends

China Under Resource & Environmental Constraints

(010-page)

■ Focus

High Savings, Investment & Growth Rates

■ Global

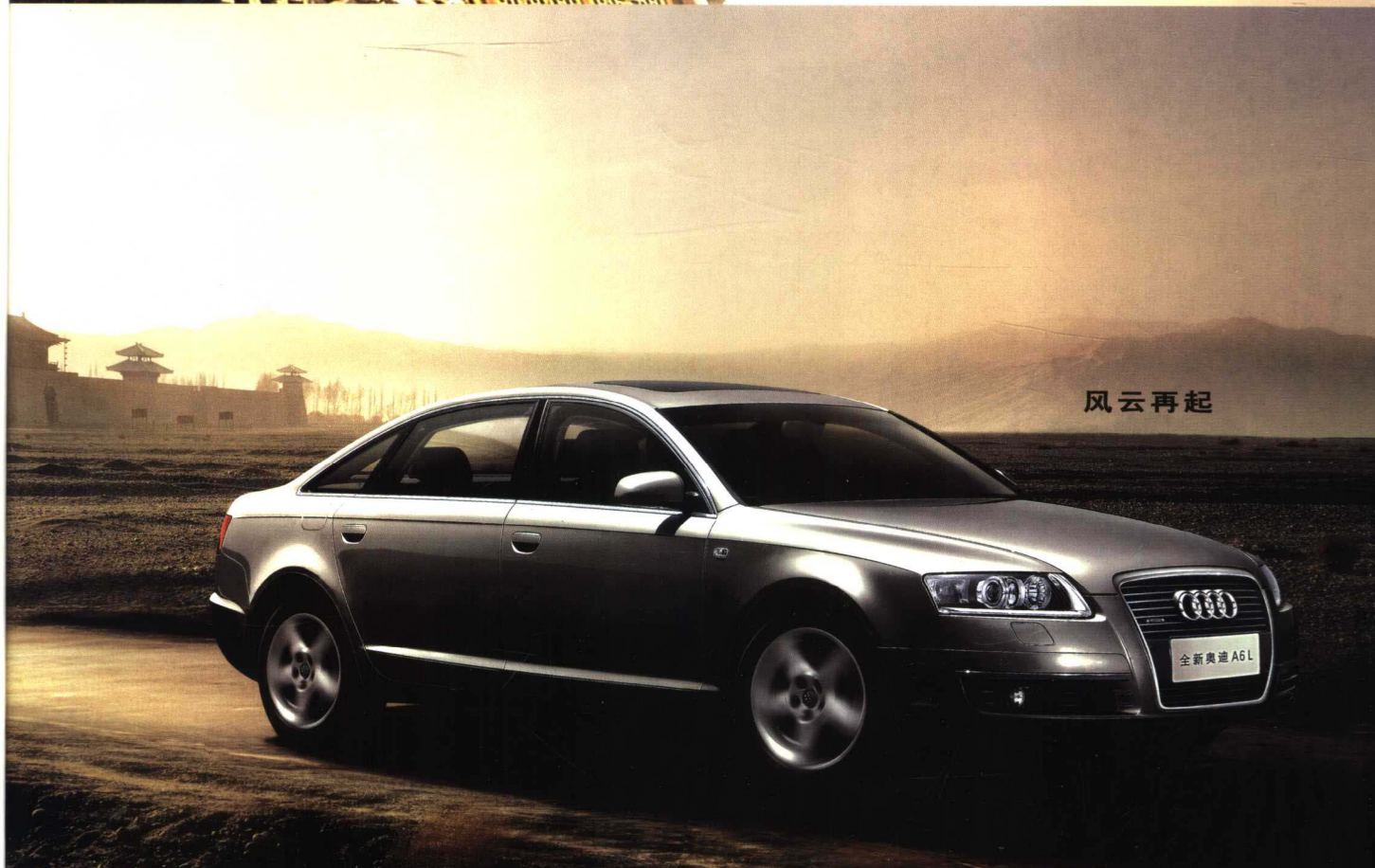
Purchasing Power Parity of RMB



ECONOMY & MANAGEMENT PUBLISHING HOUSE



何以笑傲风云？



风云再起

全新奥迪A6L荣膺2005 CCTV中国年度汽车大奖

风云车® 2006 国产中大型轿车大奖

全新奥迪A6L：备受瞩目的一体式格栅与纵向腰线，亦静亦动，尽现大家风范；品位纯粹的内饰空间，5012mm加长车身，滤尽浮华，再释豪华；深藏不露的4.2升V8发动机，气定神闲间，叱咤纵横；独步全球的quattro®全时四驱，multitronic®变速箱和自适应空气悬架，予不完美路况以完美操控；凝聚前瞻智慧的MMI多媒体界面控制技术，一键指令多元智能系统；加之汉语语音导航系统，未及身动，早已成竹在胸；布控周全的NCAP五星级安全标准，无不规避驾乘风险，时时掌握主动。全新奥迪A6L：让驾驭境界充满科技想象。

全新奥迪A6L 创想改变未来

一汽-大众

格调，展现您非凡的领导艺术。



格调。从 2.5T (210 马力) 到 2.9T (272 马力) 的全系列发动机，无往尾灯造型，超然脱俗更显名家豪华气度。动静间的尊荣安适，均得益于 IC 气帘、三点紧缩式预紧安全带，兼有“VOLVO 一路关爱”国际专业您构筑自我彰显的高明艺术。

Volvo. for life



苏州: (0512)68281888	太原: (0351)7029525	合肥: (0551)2835151	成都: (028)85143322	福州: (0591)88033163	哈尔滨: (0451)82286258
南京: (025)86918118	西安: (029)88316111	长沙: (0731)2176888	昆明: (0871)8217248	泉州: (0595)85951189	乌鲁木齐: (0991)7860966
无锡: (0510)82137718	济南: (0531)88510300	武汉: (027)84888128	重庆: (023)89112898	南昌: (0791)8211111	
常州: (0519)6606258	青岛: (0532)88699828	兰州: (0931)8322622	南宁: (0771)4911588	沈阳: (024)23917555	
天津: (022)24359999	郑州: (0371)65510989	海口: (0898)66825999	厦门: (0592)6885678	长春: (0431)5536667	

图书在版编目 (CIP) 数据

中国经济学人 =China Economist/ 金碚主编.—北京: 经济管理出版社, 2006
ISBN 7-80207-507-6

I.中… II.金… III.经济学—研究—中国—英文 IV.F120.2

中国版本图书馆 CIP 数据核字 (2006) 第 008923 号

出版发行: 经济管理出版社

北京市海淀区北蜂窝 8 号中雅大厦 11 层

电话: (010) 51915602 88456935

邮编: 100038

印 刷: 北京华联印刷有限公司

经销: 新华书店

责任编辑: 李 钢

技术编辑: 叶友志

责任校对: Olivia Saunders

889mm × 1194mm / 16

9 印张

307 千字

2006 年 3 月第 1 版

2006 年 3 月第 1 次印刷

定价: ¥80.00(国内定价) US\$12.00(国际定价)

书号: ISBN 7-80207-507-6/F · 427

· 版权所有 翻印必究 ·

凡购本社图书, 如有印装错误, 由本社读者服务部负责调换。

联系地址: 北京阜外月坛北小街 2 号

电话: (010) 68022974 邮编: 100836

Introducing CHINA ECONOMIST

In the wake of high-speed growth in Japan and some other east Asian countries during the 1950s-70s period, the Chinese economy has been growing briskly over the last two decades and more. It is also changing the global economic pattern forcefully and rapidly. During the 1970s, China accounted for no more than 2% of the world GDP, but today it makes up 4-5% of the world's GDP, 6-7% of the world's total exports and 9% of the world's total output of manufactured goods. This country's robust development is having such an impact on the world economy that some people even feel uneasy about it. However, there are absolutely no grounds for panic even if China accounts for one quarter of the world's GDP, exports and manufacturing industry, for these are just indicators of medium-level economic development in the world and of a medium-income country and a "better-off" society. Just consider this: nearly 22% of the world's total population and approximately one quarter of the world's total labor force are in China.

It seems that the world has been caught ill-prepared for the dramatic changes in China. This makes it all the more necessary for China to know itself and the world better, and for the world to understand China more. In that sense, to study China and discover the worldwide impact of the Chinese phenomenon is a global topic. However, despite the fact that learning Chinese as a foreign language is coming in vogue throughout the world, far fewer foreigners can read Chinese without difficulty. CHINA ECONOMIST, therefore, comes in handy for our foreign readers as an English periodical that focuses on economics and business management as well as other fields of social sciences in China.

Specifically, CHINA ECONOMIST takes it upon itself to inform the world of the latest academic progress in Chinese economics and business management, to publish original academic papers and research reports on the Chinese economy, and to disseminate the Chinese experience in economic development and corporate governance as well as the results of empirical studies in these fields.

CHINA ECONOMIST will follow a style that is at once scholarly and empirical and make a point of being readable, up-to-date

and reader-friendly. Its targeted readers are economics and business management researchers and experts, high-echelon economic and business administrators, teachers and graduate students of colleges of economics and business, as well as international personages and media that pay close heed to what is going on in China.

With the backing and abundant academic resources of the Chinese Academy of Social Sciences (CASS), the nation's supreme institution of humanities and social sciences, and with the senior economists and business management scholars serving as academic advisors or on the editorial board, CHINA ECONOMIST is bound to emerge as a CASS platform for international academic exchanges, and as a link between China's economics and management science and the global scholarly community.

Nevertheless, the coverage of CHINA ECONOMIST is by no means limited to the academic achievements of the Chinese Academy of Social Sciences. The journal is an open academic platform and a mass medium that not only accommodates the study results of Chinese scholars and researchers but also introduces the achievements of international scholars and researchers in the studies of Chinese economy.

It is the commitment of CHINA ECONOMIST to observe, study and discover China with a sensible, scientific and precise attitude and approach. It is also the journal's mission to present a kaleidoscopic and all-encapsulating picture in which burgeoning construction scenes, bright prospects and splendid achievements mingle with everyday trauma and discontentment and seemingly insoluble bewilderment. Only he who truly knows and understands China can put his finger on the pulse of the world as a whole. An academic silhouette of the Chinese economy — this is exactly what CHINA ECONOMIST wants to contribute to the world. Editors of this journal sincerely invite you to enjoy reading this newly-born periodical.

Prof. Chen Jiagui

Prof. Jin Bei

March 8, 2006

Prof. Chen Jiagui is the vice-president of Chinese Academy of Social Sciences (CASS).
Prof. Jin Bei is the deputy director general of CASS's Institute of Industrial Economics, the president of China Business

China Economist

Authorities in Charge

Chinese Academy of Social Sciences

Editorial Board

Director

Chen Jiagui

Managing Director

Jin Bei

Deputy Director

Huang Ping Wang Yanzhong

Board Members

Liu Shucheng Lv Zheng

Pei Changhong Wang Tongsan

Zhang Xiaoshan Li Yang

Cai Fang

Yu Yongding Pan Jiahua

Senior Advisor

Zhu Yinghuang

Editorial Department

Editor-in-chief

Jin Bei

Directors

Li Gang En Ronghui

Copy Editors

Ding Yi Zhang Shixian

Li Peiyu Wang Lipeng

Qin Yu Wang Xiaochun

Li Xiaohua Yuan Lei

Proof Readers

Reid Thompson Mary Kay

Overseas Liaison Officer

Fu Ji

Art Designer

Ye Youzhi

Art Assistant

Wu Leilei

Managing Editor

Li Gang

Produced by

Institute of Industrial Economics of CASS

China Business

Publisher

Economy & Management Publishing House

主管

中国社会科学院

编委会

主任

陈佳贵

常务副主任

金碚

副主任

黄平 王延中

编委

刘树成 吕政

裴长洪 汪同三

张晓山 李扬

蔡昉

余永定 潘家华

高级顾问

朱英璞

编辑部

主编

金碚

编辑部主任

李钢 恩蓉辉

编辑

丁易 张世贤

李佩钰 王立鹏

秦宇 旺晓春

李晓华 原磊

英文一读

Reid Thompson Mary Kay

海外联络部

付志山

美术设计

叶友志

美术助理

武蕾蕾

责任编辑

李钢

制品

中国社会科学院工业经济研究所

中国经营报社

出版

经济管理出版社

Jason的紫色午茶时间

—飞利浦HD7502咖啡壶与HD2623烤面包机

下午茶时间到了，Jason又成了公司里最受欢迎的人，因为他的office从来不少浓郁的咖啡和可口的点心，连CEO都喜欢在这个时候找个理由留在他的办公室一起享受片刻美味。

对于咖啡，Jason的品位自然不低，今天他新带了包夏威夷的科纳咖啡，先在飞利浦HD7502咖啡壶的永久性过滤网上倒了不少，加水通上电源，从第一滴咖啡滴入底下的亚罗曼玻璃壶那一刻起，Jason的office就成了公司管理层聚会的“会场”。在这里他们毫不拘束，Alex拿来了藏在茶水间冰箱里的小羊角面包，熟练地打开咖啡机边上的飞利浦HD2623烤面包机，翻开内置面包加热架，搁上有些冰冰的面包，调到第2档火候。六、七个人谈笑风生地等待着面包微微地膨胀，根本无需解冻，不多久就已经很热了。

另一边，咖啡已经煮好了，浓郁的气息充满了整个office，亚罗曼玻璃壶非常适合倾倒，醇美甘甜的味道让Jason连着喝了两杯还觉得不过瘾。虽然二十五分钟的午茶时间很快就要过去了，但Jason却没有让秘书来收拾残局，他喜欢这种小小聚会后自己动手收拾干净的感觉，咖啡壶的可分离式过滤格清洗起来很方便，防滴漏装置也很有效，不粘底保温板上没有留下一滴咖啡，而烤面包机的分离式底盘，也让再多的面包屑也照样无处藏身。只要一分钟，office又如原先那样一尘不染。同事们各自回自己的位置，只有咖啡的香气还萦绕未散。

Jason对自己选择飞利浦这两样紫色宝贝感到很满意，也对自己当初选择这间公司感到由衷的得意，因为融洽的气氛是用钱也买不来的，Jason不由得对公司的未来也多了几分信心。

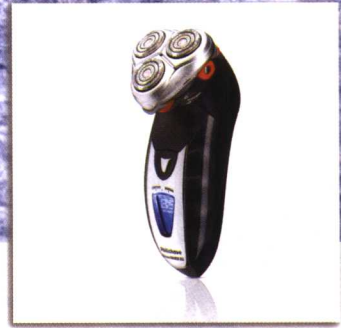
飞利浦全国顾客免费服务热线: 800 8203 678

www.philips.com.cn





*精于心 简于形



高效出击，每一下都顺畅无比！

飞利浦SmartTouch-XL[智速]电须刀。每天早晨，你都想有舒适贴面的剃须享受。但如果要往复多次才能刮干净，那就没意思了。全新SmartTouch-XL[智速]三刀头电须刀，每个刀头都有三环独立切刀片，让每一下都能更平滑彻底。它的面部轮廓跟踪系统能真正紧贴面部和下颌，再难剃的地方都刮得一干二净。舒适贴面，极速剃净，让早晨更轻松。

请即登录：www.philips.com/simplicity

PHILIPS
sense and simplicity*



P.010

Trends

010 China Under Resource and Environmental Constraints

Jin Bei

024 Strategic Options for the New Five-Year Plan

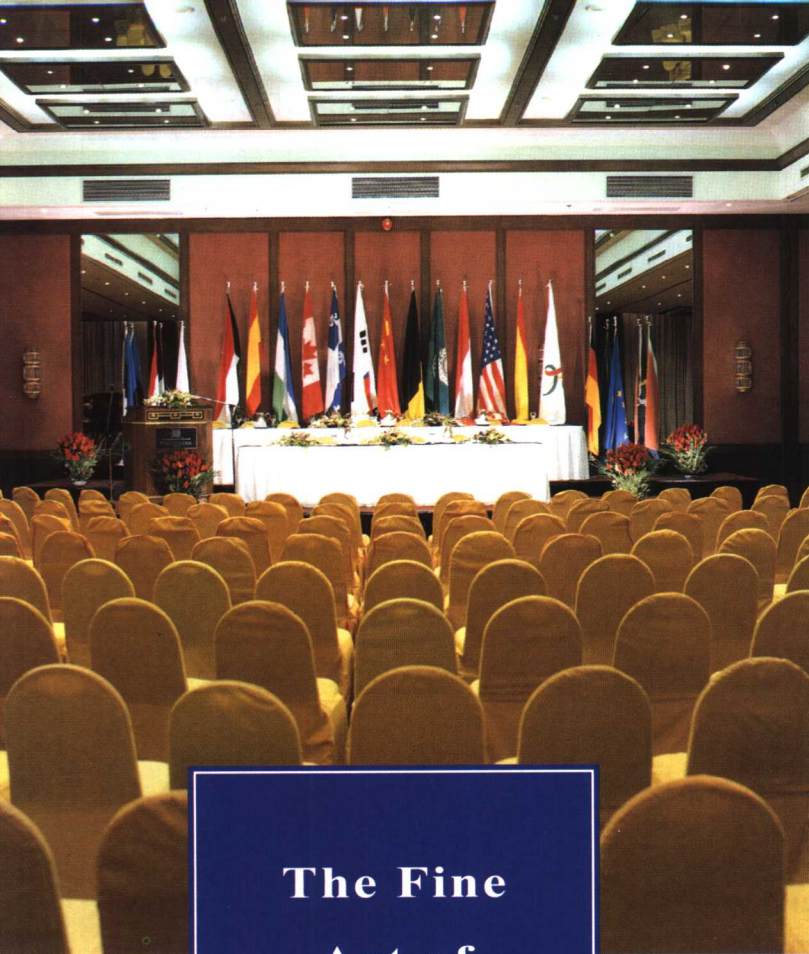
Research Team, Academy of Macroeconomic Research (SDPC)

The 11th Five-Year Plan covers a major historical period in the socioeconomic development of China. It is a time of many contradictions and risks, for it is regarded as both a "golden age of development" and an "age fraught with contradictions". If proper strategic choices are made, these opportunities may be grasped with great benefits. Otherwise, development will be delayed with a heavy cost.

046 Fiscal Investment Impact on Economic Growth

Guo Qingwang and Jia Junxue

Focusing on the 8-2003 annual statistics about China, and by using vector auto-regression (VAR) and impulse response function, this paper takes an analytic look at the dynamic impacts of aggregate fiscal investment, fiscal capital investment and fiscal innovation investment on aggregate output, total-factor productivity and private investment. Through these analyses, the authors prove that fiscal investment has a remarkably positive impact on economic growth and a strong crowd-in effect on private investment. Moreover, some of the salient features of the fiscal investment's dynamic impacts on economic growth and private investment have an important bearing on the design of the Chinese fiscal policy and the timing of its implementation.



The Fine
Art of
Hotelkeeping



Meetings Concierge
is our Commitment to your Success

Elegant rooms and efficient service
from a dedicated team committed
to meeting all your requirements.

Day Meeting Package
from Rmb 499.00+15% surcharge
(Valid to 31st December 2006)



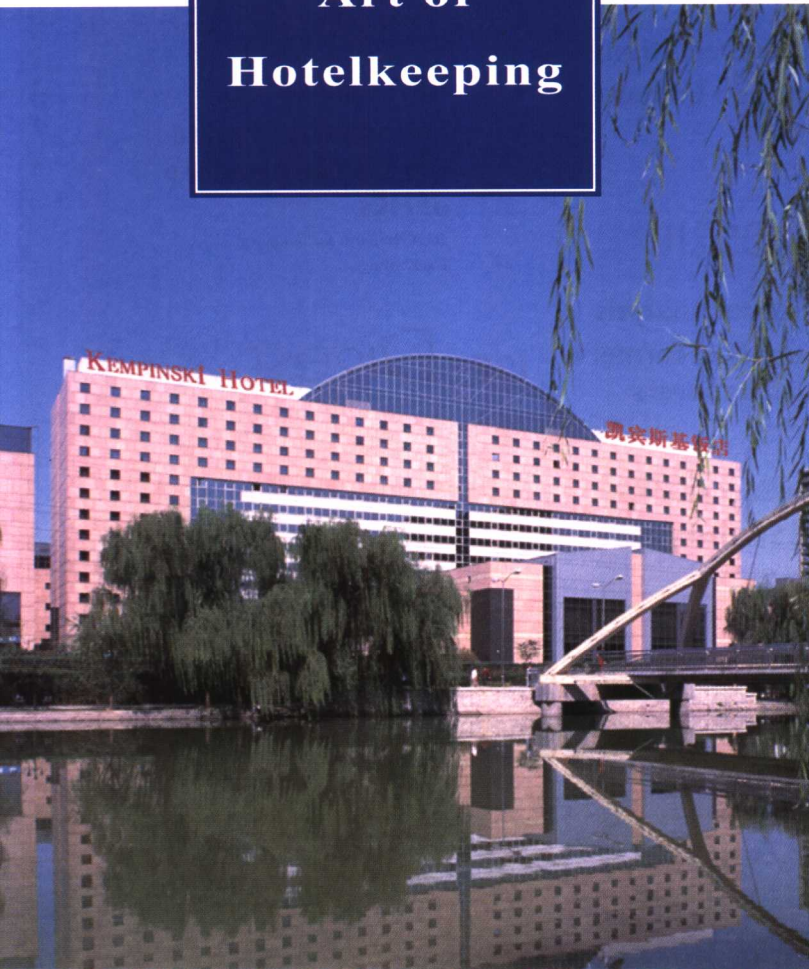
Kempinski Hotel
Beijing Lufthansa Center
CHINA

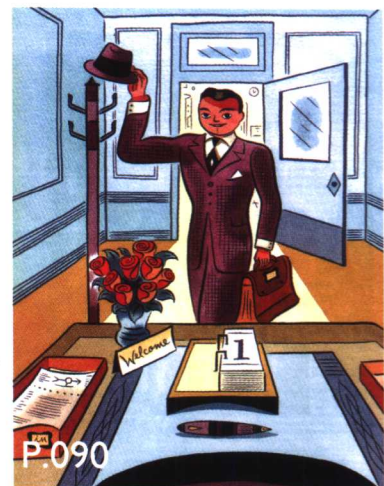
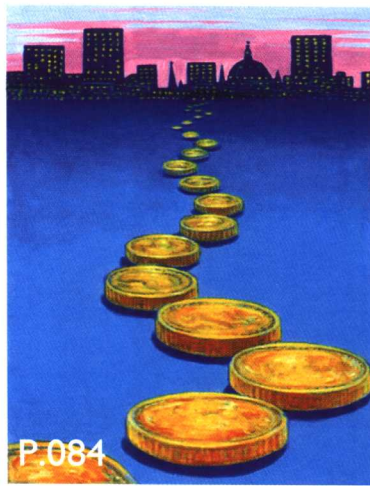
No. 50, Liangmaqiao Road, Chaoyang District, Beijing 100016 P.R.C.
Tel +86 10 6465 3388 Fax +86 10 6465 1302
e-mail meetings.khblc@kempinski.com
www.kempinski-beijing.com

A member of "The Leading Hotels of the World" global hotel alliance

www.kempinski.com
www.meetings-concierge.com

Kempinski
HOTELIERS SINCE 1897





Focus

054 High Savings, Investment and Growth Rate

Li Yang

066 A Debate on 2005 Chinese Economy

Wang Yanfeng

Global

076 Purchasing Power Parity of RMB

Wen Jiandong

084 RMB Appreciation Impact on Chinese Economy

Wang Changsheng

Business

110 A New Assumption for Family Business Studies

Li Dong

118 How China's Investment Climate Affects Performance of FIEs

Bai Chong-En, Lu Jiangyong, Tao Zhigang

Domestic

090 Statistical Analysis on Supply of Farmers-Turned-Laborers

Zhang Zheng

100 Grain Security VS. Food Security

Li Peng, Wang Yubin, Tan Xiangrong

128 Digest

17* weekly flights between Shanghai and Paris

Air France now offers 17* weekly flights between Shanghai and Paris, and onto 184 destinations worldwide via Paris-Charles de Gaulle airport. Information and reservations at Air France Call Center 4008 808 808, your preferred travel agent or visit www.airfrance.com.cn

* including code-share flights with China Eastern Airlines





China Under Resource and Environmental Constraints

By Jin Bei

Industrial production is transformation of material resources with the participation of human beings. It is a process in which natural resources are processed or manufactured into products for consumer or re-processing purposes, and in which natural resources are needed to power the processing or manufacturing of products. Therefore, consumption of natural resources is a necessary condition for industrial production. Solid, liquid, gas and other wastes resulting from industrial production are bound to affect the natural environment, and thus environmental changes are another inevitable result of industrial production. There is a limit to either the degree of consumption of

resources, or to that of environmental change (pollution and destruction in particular) that may be tolerated. Excessive resource consumption and environmental destruction not only make industrial production unsustainable, but also destroy the basic conditions for humanity's survival. China's industrialization is a unique process: it is industrial development with the participation of the largest population in human history, hence the colossal consumption of resources and its impact on the environment. Therefore, China's industrial development is challenged more severely by resource and environmental constraints than any other country in the world. In the 21st century, re-

source and environmental problems are becoming even more serious. This situation is challenging us with a severe question: Whether China can blaze a new trail for industrialization, maintain a sustainable development and achieve its socioeconomic development goals despite severe resource and environmental constraints?

Resource and environmental conditions for industrial growth in China

1. A basic appraisal of China's resources conditions

Industrial production is a process during which raw materials are

processed and manufactured into products. Massive utilization of natural resources and the generation of energy are major hallmarks of industrial production. However, many natural resources and mineral energy sources on earth are not naturally renewable. Some natural materials, such as petroleum and coal, are renewable through geological evolution, but their renewing cycle is often too slow and too long to be of any immediate significance for human activity. For this reason, supplies of natural resources and energy restrain large-scale modern industrial production. Such restraints are showing no sign of relaxation. This poses a contradiction that can never be avoided in industrialization.

China is the world's most populous country, with a population density above the world average level.

However, the Chinese population density is not particularly high compared with that of some developed countries. China is rich in gross resources insofar as land, forests, water and mineral ore deposits are concerned. However, in terms of per-capita possession of resources, China is below the average world levels in most categories. Judging from natural resource endowments vis-à-vis territory size, China's abundance levels of various natural resources are imbalanced. The nation accounts for 21% of the world's total population, 7.1% of the world's total land area, 7.1% of the world's total acreage of farmland, 9.3% of the world's total grassland acreage, 7% of all the world's water resources, 3.3% of the world's total forest acreage, 2.3% of the world's total petroleum deposits, 1.2% of the world's total natural gas resources, and 11% of the world's total coal deposits.

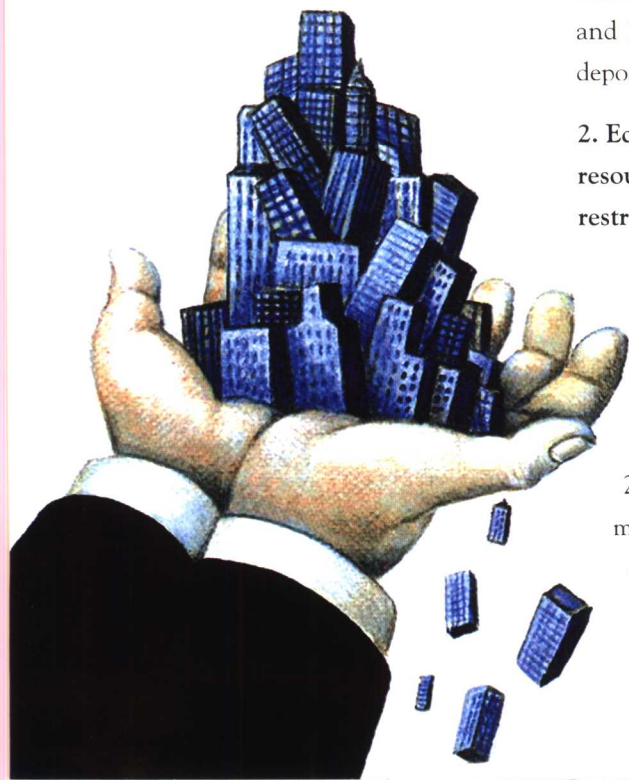
2. Economic growth stretches resource and environmental restraints to the limit

China accounts for 12% of the world's total verified mineral deposits, ranking third behind the United States and Russia. More than 200,000 mineral ore fields and mineralized zones have been discovered across the country, but only a little more than 20,000

of them have been surveyed and prospected. A new round of investigations into major territorial resources that began in 1999 has reaped major results, with the mineral resources in 21 major prospective mineralization areas prospected, the potential of the resources further verified, and 421 new mineral zones discovered. This, however, cannot change the fact that China is short in per-capita possession of mineral resources, accounting for 58% of the world average and ranking 53rd in the world.²

Limited natural resources are not a complete obstacle to Chinese industrial development. China actually holds a competitive edge in many aspects, especially in aggregate amounts and varieties. Nevertheless, nature has not been particularly generous in endowing resources on China. Moreover, China must face up to two fundamental factors: a huge population and inadequate resources in per-capita terms. It is unfeasible, therefore, for China to depend upon natural resources for long-term industrial growth.

Energy sources are a good example. According to a State Information Center prospective report, by 2010 the nation's energy demand will have reached 2.16 billion to 2.32 billion tons of standard coal. To meet that demand, China is bound to build infrastructure for energy supply on a large scale, and to continue



to import oil and gas in large quantities in the next two decades. By 2005, its primary energy output will have amounted to 1.32 billion tons of standard coal, or 228 million tons more than in 2000. According to the report, China's available resources allow for an annual output of 2 billion tons of coal; its annual crude oil output will reach 200 million tons at best around 2015; and its natural gas output is likely to reach 80 billion-100 billion cubic meters in 2010. Energy consumption in China has been growing quickly over the last few years; the increase averaging 4.2% during the 1990-2003 period. There is an acute supply-and-demand discrepancy for coal, electricity and oil.³

In striking contrast with intensified energy development and large-scale energy consumption, the energy utilization efficiency hovers at 30%, which is 10% below that of developed countries. China's per-unit consumption ratio of major energy products surpasses that of developed countries by 25-90%, or 40% in terms of weighted average. For instance, the thermal power plants in China consume an average of 404 grams of standard coal for each kwh of electricity generated, 27.4% higher than the advanced world level of 317 grams.⁴

China today is the world's second largest energy consumer. Mas-

sive energy consumption has powered high-speed economic growth, but it has also stretched the constraints of resource utilization and environmental concerns to the limit.

In the 21st century, resource and environmental problems are becoming even more serious.

3. Weakness in innovation and strength in imitation: the root of China's resource and environmental problems

The acute energy shortage and heavy environmental pressure resulting from industrial development are attributed to the fact that China has to follow the Western technical line of industrial development, a technical line which is at odds with China's natural resource endowment reality. For instance, modern Western industry is mainly powered by petroleum, whereas China's energy structure is dominated by coal.

The Chinese energy shortage is largely a manifestation of the conflict between the energy utility structure and the resource endowment structure, and that the resource constraints on the Chinese industrial growth reflect the gap between the Western industrial technical line and the natural resources endowed on China. The kinds of resources that can be efficiently used by Western technology are exactly what China lacks, such as petroleum,

whereas the Chinese have an abundance of coal. The weak innovative originality of Chinese industrial technology and a strong capability in imitating Western technology has

become the root cause for China's severe restraints in resources and environment. In other words, while China transfers and imitates Western industrial technology and develops its industry along the Western line, its energy resource endowment structure simply cannot keep pace. This in turn aggravates the constraints on the energy and resource supply for industrial development. However, it is unfeasible for China to take an entirely new road for industrial technology, which is very different from the set technical road of the Western countries, because by doing so China's industrialization would be seriously delayed.

Resources supply-and-demand restraints

1. Rich resources can trigger an overall shortage crisis

Richness of resources or relative lack thereof is relevant to a certain type of product mix and technical line. A "shortage" can only occur in a resource that is needed to turn out a certain product. For example, an

iron-and-steel shortage can only arise from the need to manufacture iron-and-steel products. Likewise, only when a resource is being consumed along a certain technical line can it fall short of the demand. Industrial technical lines tend to

is becoming a worrying possibility. Water is in short supply in some 400 of the 600-odd cities in China, and 110 of them are suffering from serious water shortages. Water supplies for the nation's urban areas fall short by a total of 6 billion cubic meters a

China must face up to two fundamental factors: a huge population and inadequate resources in per-capita terms.

choose resources with plenty of reserves that can be obtained and processed at a relatively low cost, and avoid materials that are scarce and incur high procurement and processing costs. In this sense, shortages usually occur in resources with considerable natural deposits. Rare materials can never result in an industrial shortage of overall consequences, for it is unlikely for any industrial technical line to be based on massive use of a rare resource.

The shortage of industrial resources is obviously an economic issue rather than a material or technical issue. In other words, such a shortage manifests itself in conflicts in economic relations. Oil, coal and water are among the most abundant material resources on earth, but they are precisely where an overall or global shortage crisis may break out. People have believed for a long time that water is an inexhaustible material, but today, water shortage

year. World Bank statistics suggest that the water storage in China averages a meager 2,200 cubic meters per capita, or one quarter of the world average. Experts predict that the figure will drop to 1,750 cubic meters by the time the Chinese population grows to 1.6 billion, which is close to the international criterion for a strain on water resources. According to a report from the Ministry of Water Resources, *The Water Supply and Demand in 21st-Century China*, the industrial, agricultural, daily life and ecological demand for water in 2010 will amount to 698.8 billion cubic meters during a medium-degree drought year; in that scenario, there will be a 31.8 billion-cubic-meter water shortage, because the water supply will only total 667 billion cubic meters. In 2010, China will enter a period of grave water shortage, a shortage that will have reached a peak by 2030.⁵

2. Shortage in resources is, in economic essence, an issue of prices

Whether a natural resource is in short supply or not is relevant to the demand-and-supply relationship.

Such a relationship, in its turn, is relevant to price. Materials with abundant reserves often become the major resources for industrial production. However, the

relative abundance of a material can keep prices so low that it can be supplied even free, or at a very low price. The zero or low price invariably boosts the demand and results in a shortage. Theoretically speaking, a universal shortage of resources can be avoided so long as their prices maintain a limitless elasticity for fluctuation. Judging from the characteristics of price, industrial resources can fall into three categories:

Category One: Resources that can be supplied without limit to meet a relevantly effective demand. Such resources are priced at zero; that is to say, they can be obtained without paying a penny. Sunshine, air, and seawater, for instance, belong to this category. Freshwater resources also fell into this category in most countries and regions during the pre-industrialization period.

Category Two: Rare resources whose supplies are limited and entirely regulated by market prices.

Theoretically speaking, resources of this category are immune from a possible universal shortage. This is the case even with those materials whose reserves are extremely rarified, because their prices can be raised to unrealistic heights without causing an acute shortage.

Category Three: Rare resources whose supply must be universally ensured by all means. Legislatures are often under pressure to control the prices of these resources, because the costs for such resources cannot be allowed to go too high and endanger universal supply. Intervention therefore results in shortages. Obviously, the shortage of a resource is often associated with the degree of price control, or intolerance to price changes. Intolerance to price changes directly leads to price controls.

What really concerns the public is the possibility of a shortage in the supply of Category Three resources. The shortage of resources is in essence an issue of price and it involves two questions. Firstly, to what degree is the supply and demand for a certain universally used resource regulated by market prices? Secondly, to what extent can the society withstand the fluctuations (increases, in most cases) in this resource's price? The two questions are mutually inter-related. It is often because the public cannot tolerate a drastic price fluctuation in

which the market price cannot regulate the supply and demand free from limitation and intervention; or a resource supply may fall short of demand when the price is acceptable to the public. This is one of the main reasons why shortages usually do not occur in general merchandise, but can occur in resource-based products. On the one hand, the supply of general merchandise is highly flexible and less restrained by natural conditions; on the other hand, most of such merchandise holds no price fluctuation ceilings that the public find unbearable. In the case of resource-based products in universal use, however, the public is highly sensitive to price, and ready to intervene whenever one of the prices increases to an intolerable height.

3. The difficulty of resource-related issues lies in the Chinese economy's low tolerance of price fluctuations

Categorization of industrial materials is not immutable. The same material may fall into any one of the three categories of resources in a given country or during a given period. The same resource may be in short supply in one country but not so in another. This has a lot to do, firstly, with the amount of reserves naturally endowed upon a particular country; secondly, with the verified amount of reserves (in the case of a nonrenewable resource)

or with the potential amount of supply (in the case of a renewable resource), being determined by the volume of prospecting investment; thirdly, with the realistic output and supply in the case of a resource-based product, determined by production and transportation capacities, which are, in turn, circumscribed by technology, investment and those factors that affect their performances; and fourthly, with the actual supply-and-demand relationship (in the case of resource-based products), which is determined by the market price. In short, reserves, investment, production capacity (transportation capacity included), price (as well as mechanisms and



public sustainability) constitute the four basic aspects of the industrial resource issue. Among these aspects, prices for different categories of resources are at the heart of the supply-and-demand relationship. Prices remain the primary issue today and tomorrow as China tackles its shortages in industrial resources. Produc-