An aerial photograph of a city skyline, likely Shenyang, China, featuring a prominent skyscraper and a large body of water with a bridge. The foreground shows a green park area with a winding path and a small pond. The text is overlaid in white, bold font.

**Introduction to the Work  
Progress of Shenyang City on  
Building Nationwide Environment  
Construction Model City**

**Shenyang Environmental  
Protection Bureau of China**



# I. Basic Information on the Work of Shenyang City on Building Nationwide Environment Construction Model City



沈阳市环保局

SHEN YANG ENVIRONMENTAL PROTECTION BUREAU OF CHINA



On April 1, 2009, Li Changchun, member of the Standing Committee of the Political Bureau of the Communist Party of China made the important instructions, asking our city to “learn comprehensively experience from Kawasaki City of Japan to build Shenyang City into a nationwide environment construction model city” when he visited Kawasaki City. The Secretary of Provincial Party Committee, Zhang Wenyue and the Provincial Governor, Chen Zhenggao paid great attention to the instructions, asking our city to carry out the instructions immediately. The Shenyang Municipal Party Committee and Government made deployment immediately, forming an investigation delegation led by Xing Kai, member of the Standing Committee of Shenyang Municipal Party Committee and the Vice Mayor to go to Kawasaki City to make comprehensive and deep investigation. The delegation has made a preliminary work plan for building a nationwide environment construction model city. Based on this, the Provincial Party Committee and the Provincial Government submitted especially to Li Changchun the “Report of Shenyang City on Learning Comprehensively Experience from Kawasaki City to Build A Nationwide Environment Construction Model City”. Li Changchun and the Vice Premier Li Keqiang made important instructions respectively. On June 17, the Ministry of Environmental Protection of the People’s Republic of China and the Ministry of Environment, Government of Japan signed the “Cooperation Memo on Building Shenyang City of China and Kawasaki City of Japan into Environment Friendly Cities”





According to the spirit of the instructions of the central leaders and in consideration of the actual situation of our city, the planning objective of environment model city construction of our city is to strive for building our city into an environment construction model city with five demonstration meanings nationwide in about five years on the basis of building our city into a national ecological city in 2012 by taking the objective of building a national ecological city reflecting recycling economy, ecological industry and low-carbon concept and characteristics as the overall target:

- Eco-industry Demonstration City**
- Venous Industry Demonstration City**
- Ecological Environmental Melioration Demonstration City**
- Environment Managed by Government Demonstration City**
- Public Participation Demonstration City**



## Five Demonstrations

### Eco-industry Demonstration City

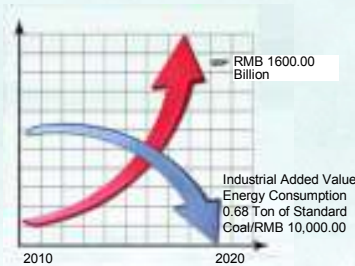
Shenyang City will firmly seize the powerful opportunity of upgrading Shenyang Economic Zone to one of the national new industrialized comprehensive reform pilot zones to promote the improvement of traditional industries on one hand, and the development of the eco-industries on the other hand to energetically transform the economic growth patterns and comprehensively push forward industrial transformation and sustainable development by taking science and technology as well as system innovation as guarantee. To build Shenyang Economic and Technological Development Zone and Hunnan High-tech Industrial Development Zone into national-level eco-industry parks and build the Environmental Protection Industrial Park in the central part of Liaoning Province, Great European Union Industrial Park, Shenyang Modern Building Industrial Park and Sishui Science and Technology City in Qipan Mountain into the first class venous industry demonstration bases, important auto parts production bases in the north part of China, national modern construction industry and residential industrialization demonstration bases as well as North East Asia biotechnology industry clustering bases nationwide. Meanwhile, to establish a batch of energy-saving model enterprises with energy consumption reaching the domestic advanced level in four key industries including equipment manufacturing industry, automobile industry, medicine chemical industry and agricultural product deep processing industry, and take the lead to establish an eco-industry system characterized by advanced technology, environmental protection, resource-saving and comprehensive utilization nationwide.

#### I. Planning Objective

By 2012, will basically complete the relocation, upgrade and transformation of enterprises. To carry out comprehensively the construction of national-level eco-industrial parks with focus on two national-level comprehensive parks and four municipal-level industrial parks to establish a new pattern of driving the industrial ecologicalization reconstruction of the whole city with eco-industrial parks.

By 2015, will achieve substantial progress in industry structure optimization and adjustment. To decrease both the industrial added value energy consumption and the total amount of pollutants while keeping fast growth of GDP and make outstanding achievement in "disconnection" between the economic growth and resource consumption. To establish preliminarily an eco-industry system characterized by advanced technology, environmental protection, resource-saving and comprehensive utilization nationwide.

By 2020, will establish an eco-industry system focusing on world-level advanced equipment manufacturing industry and with electronic information, automobiles and parts, aeronautical manufacture and modern building as support. The unit industrial added value energy consumption and the unit industrial added value pollutants emission intensity approach or reach the advanced level of Kawasaki, Japan and other countries and regions.



#### II. Key Tasks and Work Contents

1. To establish Shenyang eco-industry system. To build two comprehensive and four industrial national-level eco-industrial parks. To ensure that the unit consumption of key products including blower and machine tool manufacture, vehicle product manufacture, VC, caustic soda and beer reaches the domestic advanced level. To establish a new pattern of driving the industrial ecologicalization reconstruction of the whole city with eco-industrial parks, key industries and model enterprises.

2. To promote the development process of new industrialization of our city by giving priority to such five projects of industry enterprises as improvement projects, engineering projects, merger projects, industry clustering projects as well as energy-saving and backward elimination projects.

—Informationization drives industrialization and industrialization promotes informationization. The new emerging industrial clusters with electronic information industry as the lead will be increasingly developed and expanded and the informatization level of enterprises will be improved rapidly. By 2015, the coverage rate of the production and informatization system of above-scale large industrial and trading enterprises will reach 100% and the application rate of the production and informatization system of above-scale medium and small-sized enterprises will reach 60%. By 2020, the above-scale industrial enterprises will realize basically management informationization and use electronic commerce widely.

—Industrial space layout will be adjusted and optimized and intensive development will be realized. By 2015, the number of the industrial clusters with RMB 10.00 billion will reach 23.

—The resource utilization efficiency will be improved dramatically and the sustainable development ability will be enhanced continually. By 2015, the industrial added value energy consumption will be reduced to 0.785 ton of standard coal and the industrial water reuse rate will be 90%. By 2020, the industrial added value energy consumption will be reduced to 0.68 ton of standard coal and the industrial water reuse rate will be 95%.



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# Five Demonstrations

## Environmental Protection Industry Demonstration City

Shenyang City seizes firmly the opportunity that the energy-saving and environmental protection industry all over the world develops rapidly and that China improves investment in energy-saving and emission reduction and carries out innovative nation strategy to give full play to location advantages, technology and equipment advantages and resource advantages to realize “great-leap- forward development”, “innovative development” and “green development” of the environmental protection industry of our city to build the environmental protection industry into an emerging industry with annual output value above RMB 350.00 billion and enable it to be the new growth pole of the economic development of Shenyang City.

### I. Planning Objective

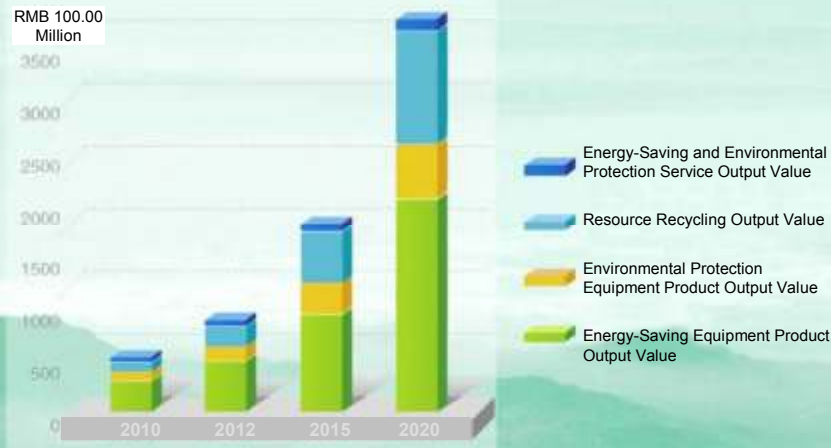
By 2012, to introduce international advanced technology of environmental protection industry from Japan and other countries and to establish “Sino-Japan International Energy-saving and Environmental Protection Industrial Park”, “Sino-France International Energy-saving and Environmental Protection Industrial Park” and “Inshore North East Asia Resource Recycling Science and Technology City” in the Environmental Protection Industry Base in the central part of Liaoning Province to enable the energy-saving and environmental protection industry of the whole city to begin to take shape with output value reaching RMB 80.00 billion.

By 2015, will have perfected industrial management supervision policies, made outstanding achievement in self research and development work, established environmental protection industry clusters and realized the output value of RMB 170.00 billion.

By 2020, will have established the largest environmental protection industry base in North East Asia Area with outstanding advantages of industrial clusters, and have realized output value of RMB 350.00 billion.

### II. Planning Contents and Key Tasks

- To build North East Asia Resource Recycling Science and Technology City by taking science and technology as the lead and the proprietary intellectual property rights as well as innovative technologies and products as the core.
- To build a 100-square-kilometer environmental protection industry base in the Inshore Economic Zone in the central part of Liaoning according to the local conditions to give full play to the advantages of the equipment manufacturing industry in Shenyang Economic and Technological Development Zone and the high-tech industry in Hunnan New District. To actively develop energy-saving and environmental protection equipment and new energy industry.
- International cooperation: To introduce and absorb advanced international technology of environmental protection industry and establish Sino-Japan and Sino-France international cooperation platforms.
- Energy-saving consumption: To energetically implement energy contract management mode, organize high energy consumption enterprises to take energy-saving and consumption reduction actions to reduce the annual energy consumption per unit of GDP by 5%.





# Five Demonstrations

## Ecological Environmental Melioration Demonstration City

Building environment livable city has become a goal pursued by each country in the world. Through building Shenyang into ecological environmental melioration demonstration city, we will focus on key areas including water and greening and take multiple measures simultaneously to improve the weak areas to realize the target of greatest improvement and fastest speed at home and to build Shenyang City into an ecological city with beautiful scenery, livable environment and the characteristics of North China with due consideration to the sustainable environmental, economic and social development. Meanwhile, Building Shenyang into an ecological environmental melioration demonstration city is the final target and result of learning the experience of Kawasaki City in Japan, and will set a model and provide beneficial experience for the construction of other domestic environment livable cities.

### I. Planning Objective

By 2012, the ecological environmental quality will meet the national standards on ecological cities to create superior ecological environmental quality for the 12th National Games.

By 2015, will basically complete building of ecological environmental melioration demonstration city. The key environmental issues will have been solved and the ecological environmental landscape and comfort level of Shenyang City will have been improved dramatically.

By 2020, will meet the requirements of the creation indexes of environment construction model city and environment livable demonstration city as well as the environment gracefulness indexes determined in the national "Standards for the Scientific Assessment of Livable Cities". Human being and the nature will be highly harmonious. Economical and social environment will be developed in a harmonious and sustainable way.

### II. Main Planning Contents and Key Tasks

To build ecological environmental melioration demonstration city by focusing on carrying out comprehensive environment control and improvement measures in the four fields including water, atmosphere, solid waste and rural ecological environment.

Home



Urban Sewage Disposal Planning Objective



Energy Structure Planning Objective

Ton

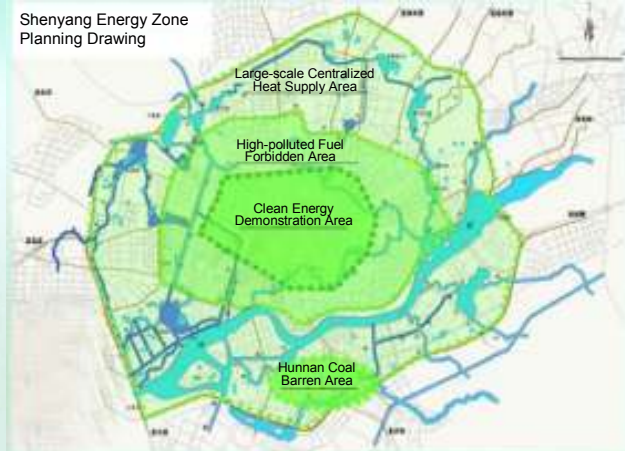


Sludge and Kitchen Garbage Treatment Planning Objective

Piece



Construction Planning Objective of National Villages and Towns with Beautiful Environment



To perfect the construction of "one shaft, two rings, four cities and nine lakes" within the 3rd Ring Road to realize the result that the water coverage rate in the core area is above 10% and the water quality is above Class IV Standard. To open Nanyun River and Hunhe River to navigation and gradually extend to Beiyun River, and thus forming the modern metropolis landscape with the characteristics of North China as well as highly harmonious buildings, rivers, lakes and woods, and building an ecological and cultural livable city with mountains and rivers and strong competitiveness.



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# Government Environment Management Demonstration City

Further fulfill the opinion of scientific development; driven by the innovation of the government environment management system and mechanism and from the three layers of government administration conception, administration action and internal operation management, carry out the construction of green government; by means of continuously increasing the green proportion in the performance examination of the government, strongly carry out energy saving and emission reduction, firstly carry forward the environment economic policy, continuously further government green purchase, fully create and construct the resource-saving and environment-friendly green organs, and take efforts to develop green traffic, green buildings and other environment management and construction in complete manner so as to promote the optimization of economic structure, develop green environment, improve human residence environment situation, enhance the good image of the government, form the comprehensive decision mechanism with the harmonic and sustainable development of economy, society and resources, realize the high combination of environment protection and economic and social development, forcefully ensure the complete rejuvenation of Shenyang as an old industrial base and set an sample of government environment management all over the country.

## I. Objective of the Program

By 2012, the governments at every level will have carried out the green construction completely from the three layers of government administration conception, administration action and internal operation management and will have almost constructed the environment and development comprehensive decision mechanism and green governance performance examination and evaluation system with the obvious promotion of the environment management level and effect of the government. By 2015, every material task for the construction of green government will have achieved remarkable effect and the policies, measures and mechanisms for comprehensive environment management will have been leading all over the country. By 2020, every task of the construction of green government will have been promoted entirely and the comprehensive decision mechanism for environment and development will have achieved remarkable effect and environment, economy and society will have realized the harmonic development.



## II. Description and Main Tasks of the Program

Green government program Detailed description	Green government program Detailed description
Government green decision program	<ol style="list-style-type: none"> <li>1. Reinforce the environment consciousness of the government officials, regularly have the training course for the officials engaging in green government program, improve the PR and environment management decision capability of the government and realize the core administration conception of protecting environment and optimizing economic development.</li> <li>2. Enhance the enactment of the laws, regulations and policies regarding energy saving and environment protection, establish and perfect the environment protection and legal system and solidify the foundation of the legislation and compliance for green government environment protection.</li> <li>3. Establish the environment decision mechanism, carry forward the environment assessment for the program and prevent environmental problems from the source.</li> </ol>
Government green administration program	<ol style="list-style-type: none"> <li>4. Along the main line of no harm, reduction, reclamation and industrialization, greatly develop circular economy.</li> <li>5. Optimize and adjust the industry structure, establish and issue the List of Double-High and wash out the backward processes and backward capacities.</li> <li>6. Direct the development of the energy-saving and environment-protected industries and actively promote the application of the energy-saving and environment-protected new technologies and new products.</li> <li>7. Forcefully fulfill energy saving and emission reduction and fully achieve the energy saving and emission reduction work tasks at every stage.</li> <li>8. Execute the Energy-saving Design Standard for Residential Buildings of Shenyang and promote the construction of the national star-level green buildings.</li> <li>9. Speed up the construction of urban fast bus and metro, carry out the purely electrical energy-saving bus replacement program; by 2015, the proportion of purely electrical buses will reach 100%; and carry forward the green traffic model of "metro, bus and bicycle".</li> <li>10. Implement the environment economy policies: environment pollution liability insurance, the association mechanism between pollution emission right transaction, corporate environment conduct and bank credit, ecological compensation mechanism, etc.</li> </ol>
Government green examination program	<ol style="list-style-type: none"> <li>11. Carry out the green-based government administration performance examination, stress the environment performance index in the administration performance examination, increase the weight of environment protection and related work, effectively direct and supervise the implementation of the sustainable development strategy by the government.</li> </ol>
Government green service program	<ol style="list-style-type: none"> <li>12. Reinforce green fiscal input: Firstly provide funds for the construction projects beneficial to the ecological environment, preferentially increase the environment protection expenditures in the public property expenditures of the government every year, bring the role of the government in the direction of environment protection input, drive society to increase environment protection input and make sure the environment protection input from the whole society should be above 3% of the GDP of the same period.</li> </ol>
Government green organ construction program	<ol style="list-style-type: none"> <li>13. Create and set up green organs: Carry out the paper-free office, control meeting level and scale, control the purchase of vehicles out of standard, verify the oil consumption quota for governmental vehicles, strictly control the electricity consumption of lighting, air-conditioning, elevators, etc and reasonably use the water-saving facilities, etc.</li> </ol>
Government green purchase program	<ol style="list-style-type: none"> <li>14. Reinforce government green purchase: With the same technical and service conditions, preferentially purchase the environment-protected and energy-saving products entered in the purchase list; the green products listed in the government purchase catalogue should be above 40%; the purchase of green products by the government should increase in proportion gradually; and the value of the green products in the total value of government purchase should increase year by year.</li> </ol>





# Public Participation Demonstration City

The Program of Shenyang to Create and Construct National Demonstration City with Public Participation in Environment Affairs is the first local program whose establishment gets the public participation into environment affairs in China. This Program, by studying and taking reference to the successful experience of Japan in public participation, based on the actual situation of Shenyang, has formed the main framework consisting of “Environment Public Participation Mode”, “Environment Public Participation and Promotion Measures” and “Environment Public Participation Assurance System”; and by means of perfecting the three mechanisms of public participation and environment right protection, participation in environment supervision and management and participation in environment decision, this Program establishes the environment public participation consciousness platform and the government environment information disclosure platform in order to carry out such activities as environment promotion and education, public green initiative, green unit creation and construction, development of environment NGOs, etc and create a Shenyang-featured and domestically-leading Environment Public Participation Demonstration City.

## I. Objective of the Program

Under the schedule of “Take effect in three years, greatly develop in five years and achieve the goal in ten years” and changing the stage of passive participation in own right protection into the stage of the government’s directing public participation and public participation in both supervision and management, this Program is to ultimately realize the stage of public participation in the decision of the government actively and achieve the advanced level of public participation of Japan.

## II. Description and Main Tasks of the Program



Public participation measures and program	Detailed description
Program of setting up the environment public participation consciousness platform	<ol style="list-style-type: none"> <li>Promote green life and print and issue Handbook of Knowledge about of Public Participation in Environment Protection for Citizens.</li> <li>Have corporate environment education and promotion activities, print and issue the practical handbook regarding energy saving and emission reduction for employees and provide environment protection training activities for key enterprises.</li> <li>Have the ten public participation activities in Shenyang.</li> <li>Shenjing Environment Protection Lecture.</li> <li>Carry out the Green Great Wall Plan, combine environment protection into the normal teaching course and establish the military training and environment protection combined education mechanism.</li> <li>Accelerate the construction of the environment education base system and speed up the construction of the web-based environment protection education base platform.</li> <li>Carry out environment protection education in the rural area and have circuit environment lectures in the rural area.</li> <li>Establish the governmental and corporate environment information disclosure mechanism and set up the information disclosure network platform.</li> </ol>
Program of setting up the basic public participation information platform	<ol style="list-style-type: none"> <li>Carry out the construction of “Low-carbon National Games Forest”, the promotion of “Low-carbon National Games”, low-carbon living achievement exhibitions, etc.</li> <li>Establish environment NGO management regulations and rules and promote the development of NGOs by multiple means.</li> <li>Have the activities to create and construct green units such as green schools, low-carbon communities, green marketplaces, green campuses, etc.</li> <li>Have the energy saving and emission reduction family demonstration programs.</li> <li>Have the activities to create and construct “low-carbon villages”.</li> </ol>
Program of public own green activities	<ol style="list-style-type: none"> <li>Establish all-directional solid complaint platform and the environment conflict and dispute risk assessment system.</li> <li>Construct the public environment infringement legal aid platform</li> <li>Set up the public participation fund.</li> </ol>
Program of establishing the mechanism for public protection of their own rights and interests	<ol style="list-style-type: none"> <li>Found the governmental environment conduct public supervision platform and perfect the public-government-enterprise interactive platform</li> <li>Regulate the mechanism for public participation in construction project environment effect evaluation.</li> <li>Perfect the mechanism for public participation in environment legislation.</li> <li>Establish the community environment protection mediator mechanism.</li> </ol>
Program of establishing the mechanism for participation in environment supervision and management	
Program of establishing the mechanism for public participation in environment decision	



## II. Summary on Model City Work in 2010



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## **1. Model City Planning Was Demonstrated by Senior Experts of the State and Was Effectively Implemented**

The Chinese Academy for Environmental Planning is responsible for making overall plan as well as organizing and making special plans. It has made the overall plan for building model city with international perspectiveness and practical special plans from high starting point based on the advanced experience of various excellent cities both at home and abroad, put forward the strategic concepts, guidelines, development objective, approaches and key tasks for Shenyang City in building a national environment construction model city. These provided comprehensive and scientific guidance for building a national environment model city. The municipal leader group organized the Model City Construction Office and made the “Work Plan of Shanyang City on Building A National Environment Construction Model City” based on the overall plan, and determined the overall model city construction concept of “one city, four districts, five demonstrations and hundred projects”.

The plan-making consultants are from seven organizations including Chinese Academy of Sciences, Chinese Academy of Social Sciences, Ministry of Environmental Protection, Development Research Center of the State Council, Energy Research Institute National Development and Reform Commission, Tsinghua University and Northeastern University, consisting of four academicians and nine researchers.





## **2. Actively Striving for Obtaining External Support to Speed Up the Construction Work**

For a year, the concerned departments including the Municipal Bureau of Environmental Protection, Development and Reform Commission as well as Science and Technology Bureau actively strived for obtaining support from the State, the province and the relevant authorities to the model city construction work. The National Development and Reform Commission plans to list our city as one of the national recycling economy pilot cities to support our city to set up the first national environmental protection funds to provide fund support to the eligible resource recycling projects. The Ministry of Environmental Protection plans to include Kawasaki--Shenyang Environmental Protection Cooperation in Sino-Japan Dialog on Recycling Economy Policies and Sino-Japan Recycling City Cooperation Framework to further carry out and deepen Sino-Japan Kawasaki--Shenyang Environmental Protection Cooperation Memo to support Shenyang City to carry out the construction of eco-industrial parks (including venous industry). The Provincial Department of Environmental Protection has included the construction of the model city and Hunnan New District in the Cooperation Framework Agreement between the Ministry of Environmental Protection and Liaoning Province. The Provincial Department of Finance and the Provincial Department of Environmental Protection determined to provide RMB 425.00 million for controlling and improving the environment in the rural area of Shenyang City in three years and provide RMB 120.00 million this year for water pollution control in Puhe River Basin and Baitabao River in Hunnan Area. We have obtained 1.80 million Japanese Yen support funds from Japanese JICA Organization for promoting the construction of the Sino-Japan Venous Industry Eco-industrial Park. The Provincial Department of Science and Technology and the Municipal Bureau of Science and Technology have allocated special funds to organize and conduct study on relevant subjects.





### **3. Carrying Out Effectively the Construction of Demonstration Projects to Continuously Deepen the Construction Work**

According to the working concept of pushing forward the construction of the model city through demonstration projects, our city gave full play to the demonstration effect and leading function of the demonstration projects to continuously push forward and deepen the construction of the model city through selecting key and weak environment construction areas of each industry and social service fields, by giving top priority to the demonstration projects, and according to the local conditions. Our city organized the relevant departments and experts to investigate and study nearly 200 projects in the six fields including environment livability, ecological industry, venous industry, low-carbon economy, green government and public participation and determined the first 27 demonstration projects including Puhe Ecological Corridor Comprehensive Control and Improvement Project, Northern Heavy Industries Group Co., Ltd and Yuanda Group according to principle that the projects can play demonstrative and leading role for the construction of the similar domestic projects and whose scale, design concept, technological process, construction level and operation status are in the leading level domestically. Meanwhile, our city has determined the working mechanism for the construction of the demonstration projects and issued the “Work Plan of Shenyang City on the Construction of the Demonstration Projects for Building National Environment Construction Model City” to ensure to push forward steadily the construction of the projects and to give full play to leading and demonstrative effect.





#### **4. Actively Innovating Public Participation Mode and Achieving Outstanding Result in Green Unit Creation**

Our city has set up “Mukden Environmental Protection Forum” in Shenyang University and invited famous experts both at home and abroad to make speech for 11 times which has achieved good social response. The green unit creation activity organized in the whole city has made outstanding achievement. We have also established 70 green communities, 2 low-carbon communities and 152 green schools and recommended 52 environment friendly schools of Liaoning Province.

#### **5. Starting the Construction of National-level Eco-industrial Parks**

Our city entrusted the Institute of Applied Ecology-Chinese Academy of Sciences to make the construction plans of Shenyang Economic and Technological Development Zone, Hunnan High-tech Industrial Development Zone and Hanggao Base Eco-industrial Park. In addition, our city actively communicated with the Ministry of Environmental Protection to make various good preparations for the approval of building the above-mentioned areas into national-level eco-industrial parks.





# III. Model City Construction Work Plan in 2011



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## **1. Speeding Up the Implementation of Model City Plan and Supporting Implementation Plans**

To hold 2011 model city work meeting to fulfill various tasks through responsibility system, organize each relevant district and department to seriously fulfill the model city construction plan and the supporting implementation scheme of “one city, four districts, five demonstrations and hundred projects”, strengthen check, supervision, coordination and guidance working mechanism, keep close link with the planning and construction of Hunnan New District, carry out planning and design, synchronous construction and putting into operation in a streamlined way, conduct staged and rolling assessment to the overall plan and special plans, as well as adjust appropriately the planning target and tasks.



## **2. Carrying Out Deeply the Construction of Demonstration Projects of Model City**

To widen the promotion methods and channels of the advanced and applied technologies in different fields, excavate deeply and cultivate demonstration projects as well as lead and push forward the construction of environment model city of the whole city. To promote the construction of Shenyang Hunnan New Town and Low-carbon National Games Village venues, carry out the ecological environment improvement works in Puhe River Basin, do a good job in follow-up service work of modern building industrial parks and other demonstration projects, promote the construction of national star-level green buildings, open public transportation lines using clean energy such as pure electricity and natural gas, promote the development of low-carbon green mobility mode of “subway + public transportation bus + bicycle”, continuously carry out green unit creation, push forward energy service contract trial, direct green government (organ) construction and innovate public participation mode and carrier.







### **3. Pushing Forward the Construction of National-level Eco-industrial Parks**

By making full use of the national strategy of upgrading Shenyang Economic Zone to one of the national new industrialized comprehensive reform pilot zones and according to the implementation plan and the construction of industrial parks of our city and based on the ecological industry concept, to plan, construct, reconstruct and perfect industrial parks, and to realize the result that industrialization promotes informationization and informationization drives industrialization. In 2011, we will complete the project approval of Zhangshi, Hunnan and European Union industrial parks, organize and make the plans of Modern Building Industrial Park and Sishui Science and Technology City Industrial Park.



#### **4. Further Expanding and Deepening International Exchange and Cooperation**

To strengthen the communication and liaison with America, Germany and other developed countries in environment construction and strive for getting intellectual support and cooperation beneficial to model city construction. Under the framework of “Shenyang—Kawasaki Environment Friendly City Cooperation Memo”, to actively strive for getting support from various sources to the construction of model city in Shenyang City. To do a better job in JICA Venous Industry Eco-industrial Park Pilot Project, support jointly the research and development activities between Shenyang and Kawasaki and the development of resource recycling industries. Taking Japanese JFE and ASK companies as pilot, to actively introduce advanced venous industry technologies and enterprises from Japan, build project cooperation channels with focus on energy-saving and environmental protection industries. To promote the works of Sino-Japan Recycling Economy Research Center, strengthen recycling economy technology research & development and reserve, develop recycling economy city simulation system. To push forward the implementation of Shenyang ecological city project of United Nations Environment Programme.





## **5. Promoting Great-leap-forward Development of Energy-saving and Environmental Protection Industries of Our City**

Taking the environmental protection industry base in the inshore economic zone in the central part of Liaoning Province, Zhangshi Economic and Technological Development Zone and the New District in the north of Shenyang City as key breakthrough points, to strengthen international and domestic cooperation and attract investments, and push forward the great and rapid development of the energy-saving and environmental protection industries of our city. To accomplish exchange and cooperation negotiation with Japan, France and other countries in conjunction with the relevant authorities including Bureau of Foreign Trade and Economic Cooperation as well as the concerned districts and counties to ensure that substantial progress will be achieved in such projects including the “Sino-France Environmental Protection Industrial Park” and the “Sino-Japan Environmental Protection Industrial Park”. By the end of 2011, we will strive for introducing 30 new projects above RMB 30.00 million to the Environmental Protection Industry Base in the central part of Liaoning Province and ensure that the number of new enterprises started to establish in 2011 will be 20. By the end of 2011, the number of enterprises put into production and trial production will reach 20. Meanwhile, we try our best to determine and start to construct such projects including Japanese ASK Industrial Zone, Mitsui Imported Waste Household Appliances Dismantling Project, Shimabun Waste Metal Deep Processing Project, Zhongtianwu “The Seventh Imported Waste” Dismantling and Processing Project, JFE Waste Beverage Bottle Deep Processing Project, Shenzhen Jiada Flexible Cement High-tech Product Project, Qinghai Jieshen and Zhejiang Fulun, Hunan Vary Environmental Protection Equipment Manufacturing Project, Qingdao New World Domestic Waste Household Appliances Processing Project and Shenyang Xinxing Copper Company Waste Copper Deep Processing Project. In 2011, we will ensure that the production value of the completed industrial base projects reaches RMB10.00 billion.