



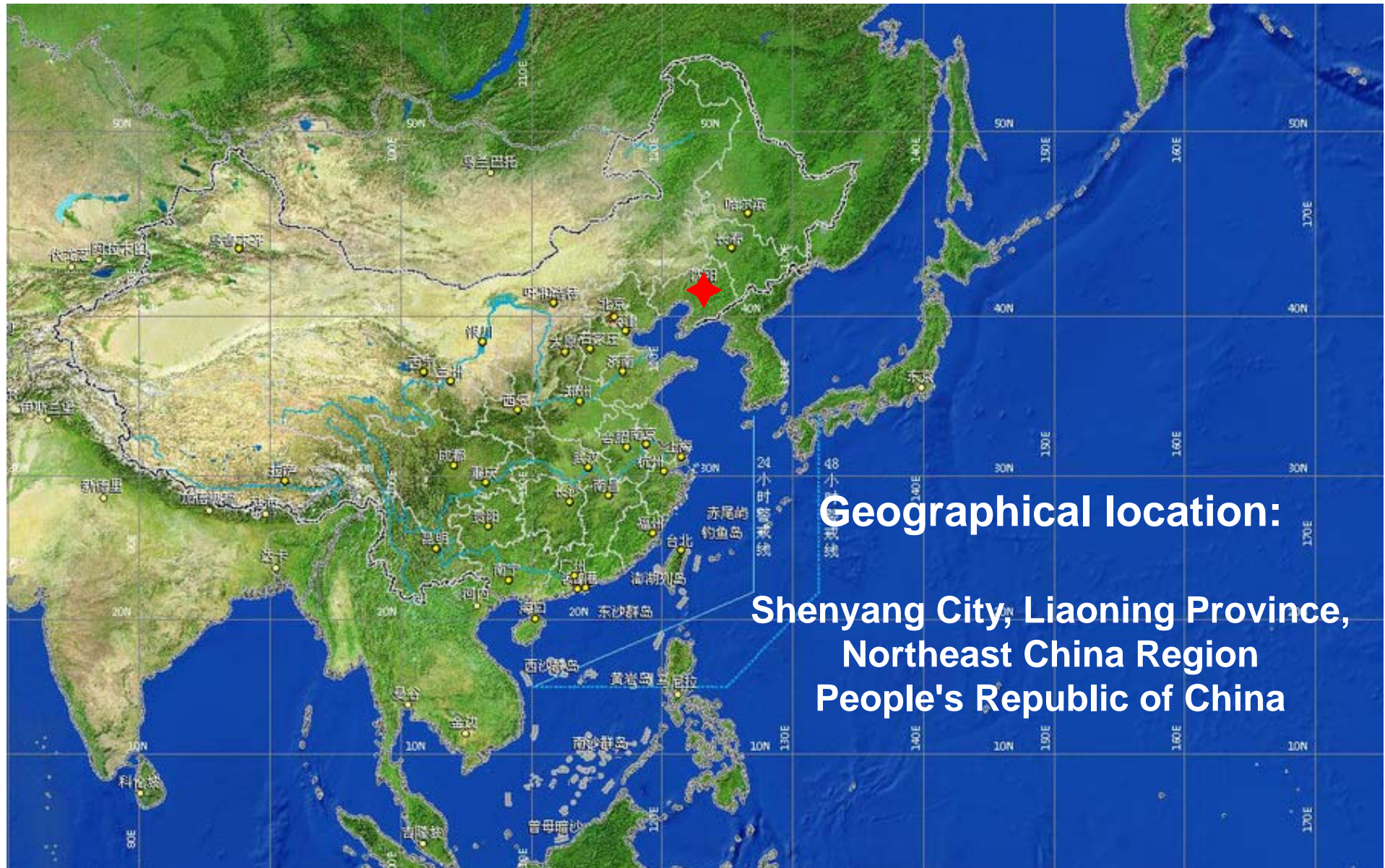
沈阳环境科学研究院

Shenyang Academy of Environmental Sciences





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Shenyang Academy of Environmental Sciences Brief Introduction to the Unit

Ministry of Environmental Protection of the People's Republic of China

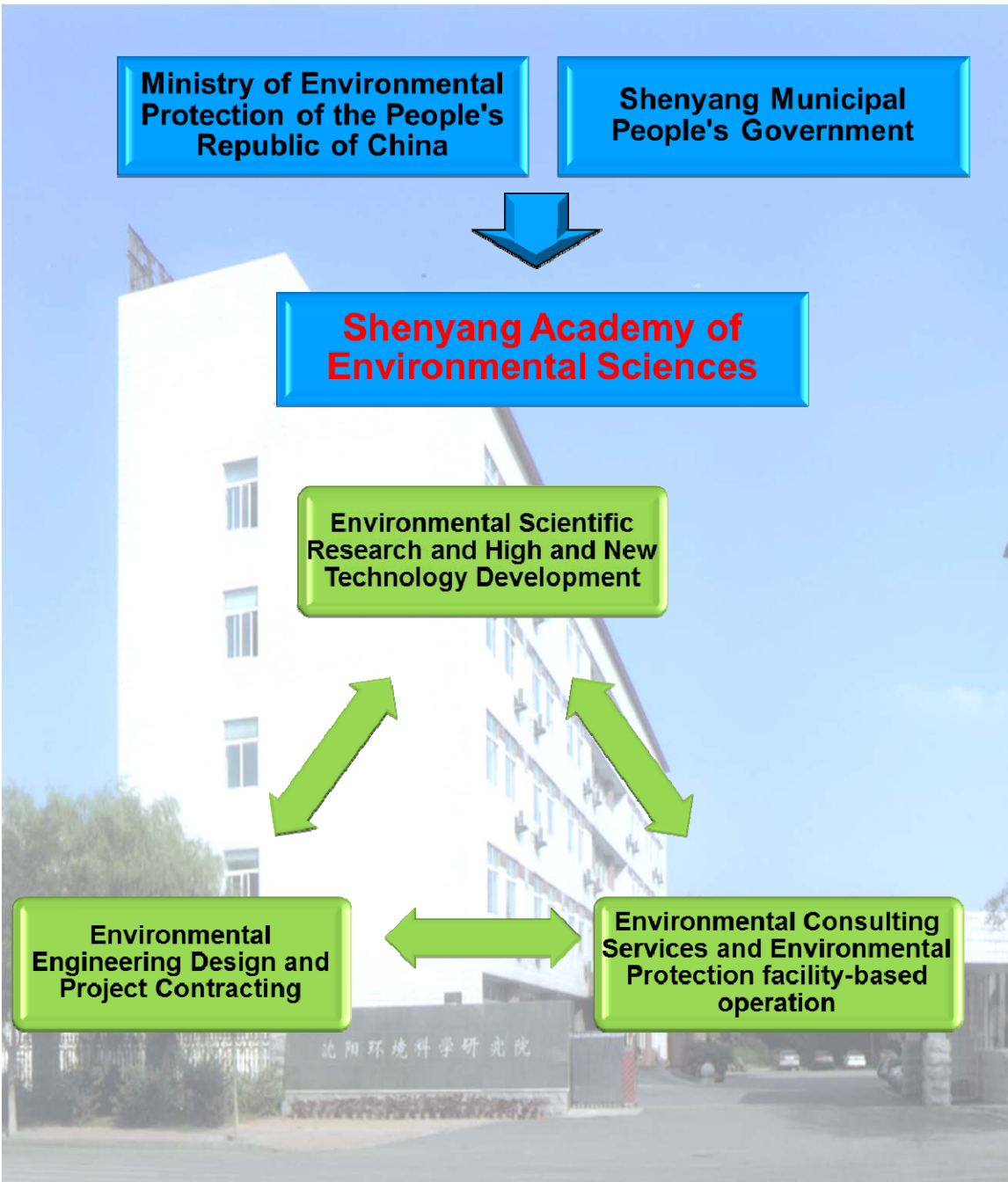
Shenyang Municipal People's Government

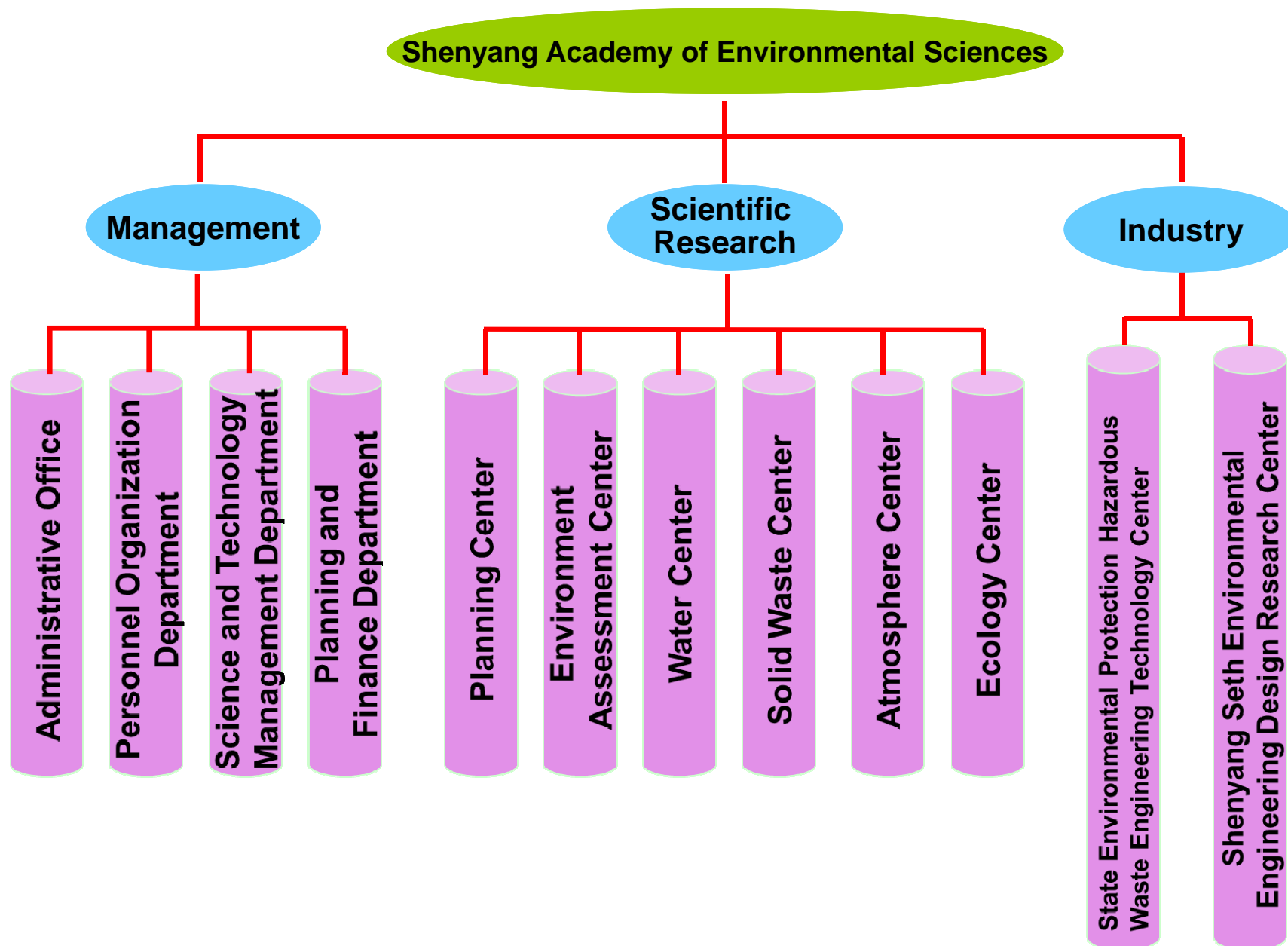
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Environmental Scientific Research and High and New Technology Development

Environmental Engineering Design and Project Contracting

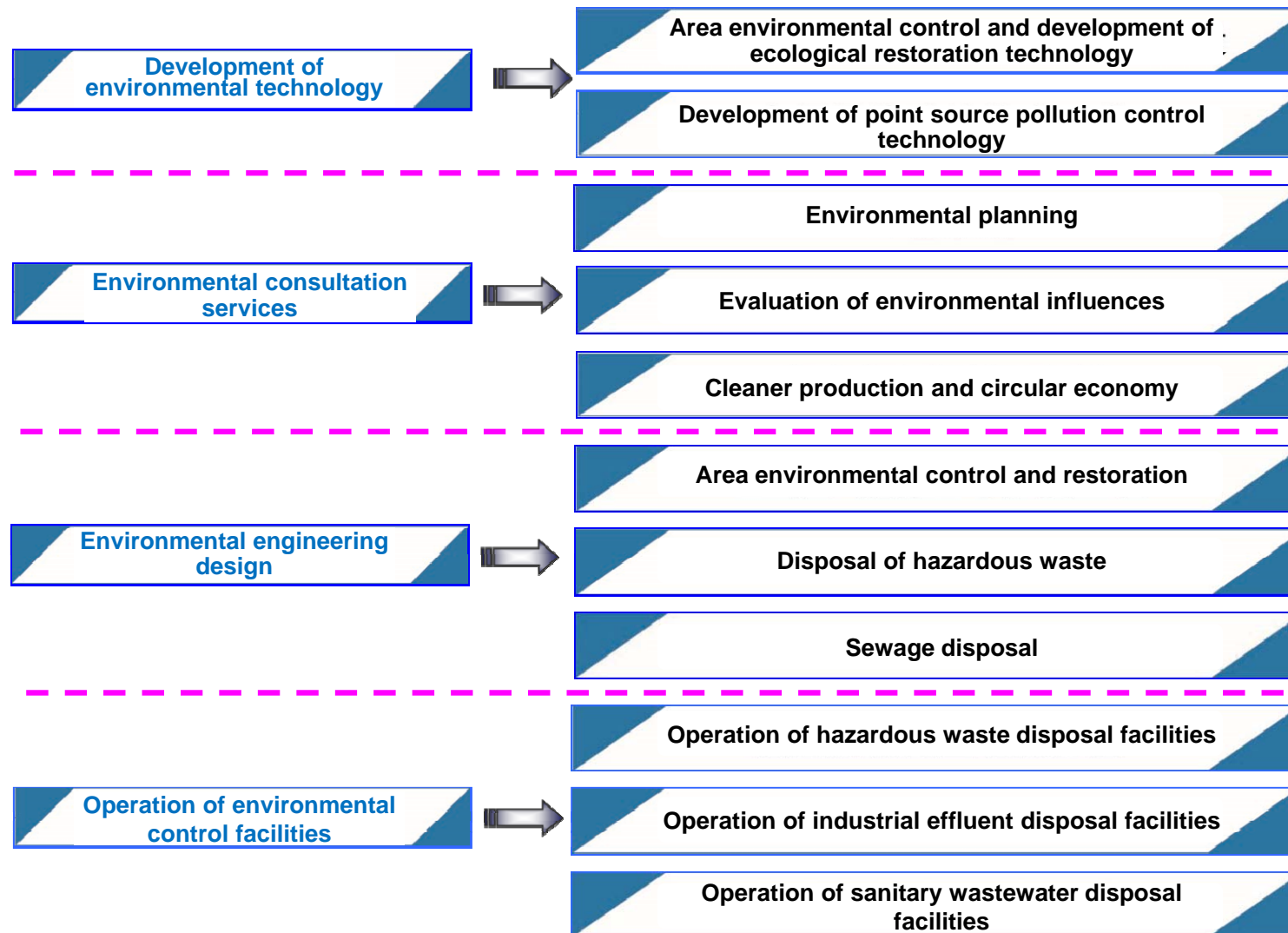
Environmental Consulting Services and Environmental Protection facility-based operation







Main Business Areas



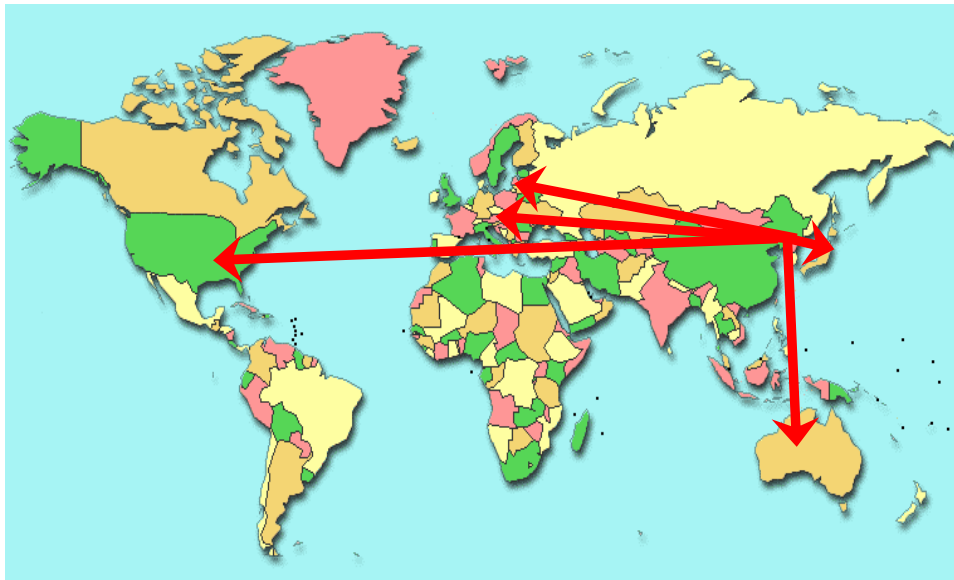


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Exchanges and Cooperation

Exchanges and Cooperation

- Complete China's Implementation of the Convention on POPs System Project
- Complete the World Bank's PCBs Management and Disposal Demonstration Project
- Become Sister Unit of South Korea Environmental Technology Development Institute
- Establish Contaminated-Site Cooperative Relations with the University of Venice (Italy)
- China Cooperates with Italy to Develop PCBs Inventory Methodology and Preliminary Strategy
- China Cooperates with USA to Develop China PCBs Clearing Technology
- Establish Cooperative Relations with USA Hengde Company
- Carry out Ecological Diversified Operation and Cooperation with Australia Ecological Development Center





State Environmental Protection Hazardous Waste Engineering Technology Center

Formulation of Management Technical Specifications and Technical Policy of the Entire Process of Hazardous Waste Disposal

Hazardous Waste Disposal Outfit Industrialization and Product Evaluation

Engineering Consulting Service, Engineering Design and Engineering General Contractor for the Construction of Hazardous Waste Disposal Facility

Introduction Assessment and Re-Innovation of Foreign Hazardous Waste Disposal Technology

Research and Development of Hazardous Waste Risk Accident Emergency Treatment Technology

Training Management Personnel in the Field of Hazardous Waste Management Technology

**National Engineering
Technology Center**





PCB Incineration Demonstration Project

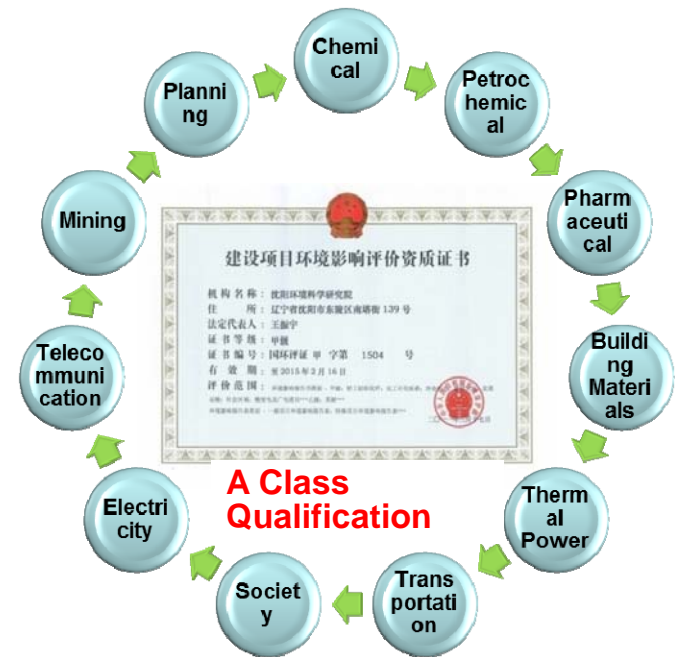
The Shenyang PCB Waste Incineration Demonstration Project is a high-tech industrialization project set up by the National Development and Reform Commission, and is approved as the Disposal Capacity Building Project of China's Implementation of "POPs Convention". The Project has already been completed and passed the acceptance inspection. It is currently the industrial base of technological research and engineering practice of the Academy.





Environmental Impact Assessment

The Shenyang Academy of Environmental Sciences started to engage in environmental quality assessment in 1977, and started to carry out environmental impact assessment of construction projects in 1980. In 1987, the Academy became one of the first batch of units that obtained A Class Qualification Certificate of Construction Project Environmental Impact Assessment issued by the State Environmental Protection Administration. In 2013, the Academy completed **over 1,500** Environmental Impact Assessment projects; among which, **5** was National Projects.





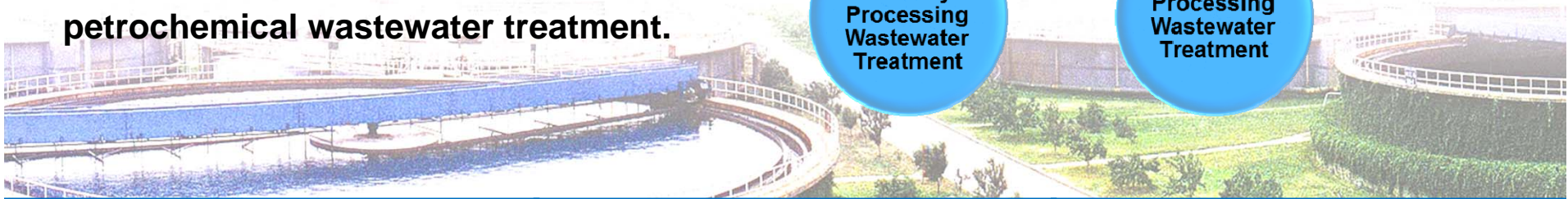
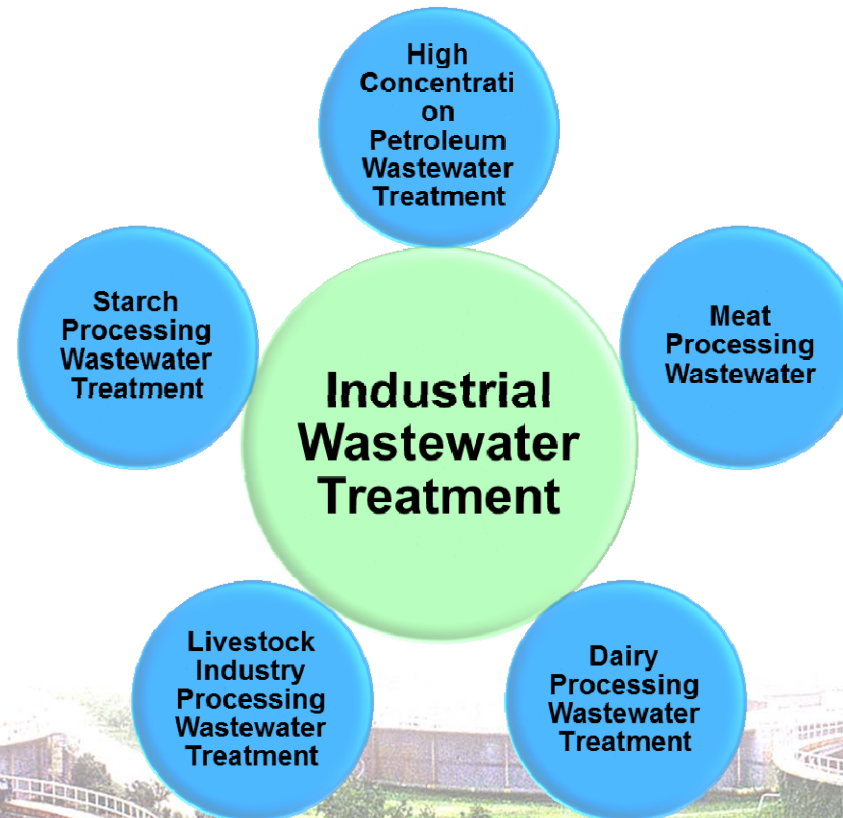
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Performance and Achievements

Industrial Wastewater Treatment

The Academy has already been engaged in industrial waste water treatment projects for more than 30 years, being able to undertake an array of services including engineering consulting, engineering design, engineering construction, facility-based operation, etc. The Academy has a wealth of experience in the fields of food and petrochemical wastewater treatment.



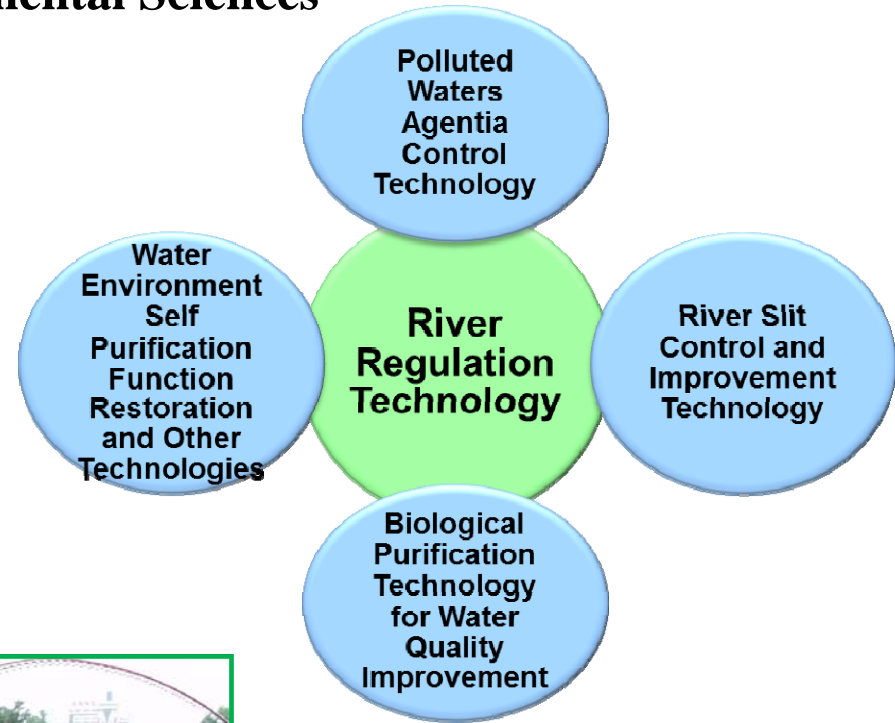


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Performance and Achievements

River Regulation Technology

Since 2002, taking treating the foul water in Hunhe River as a breakthrough, the Academy has developed a series of river regulation technologies, and has won several national, provincial, municipal and other awards for its achievements. The Academy also successfully applies its achievements in a series of water environment comprehensive improvement projects in Shenyang City.





Ecological Wetland Wastewater
Treatment Technology

The Technology uses wetland structure or wetland areas with functions and features of artificial natural wetland to strengthen the ecological functions of wetlands, which plays an important role in the wastewater treatment and water quality purification of drainage basin and riverway. The Academy holds one independent Patent and has one formulated National Standard.



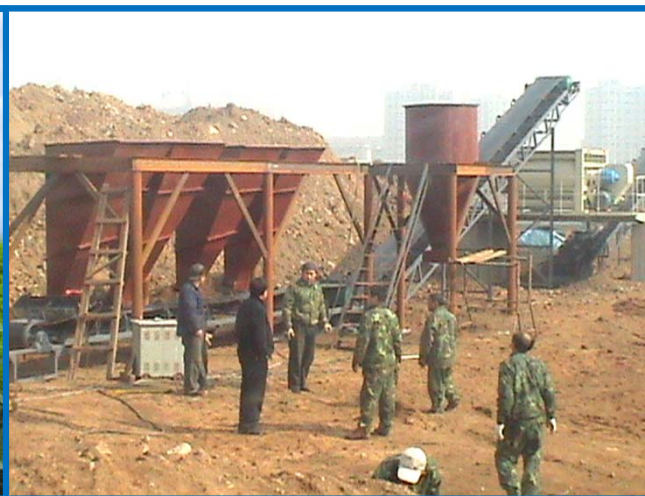
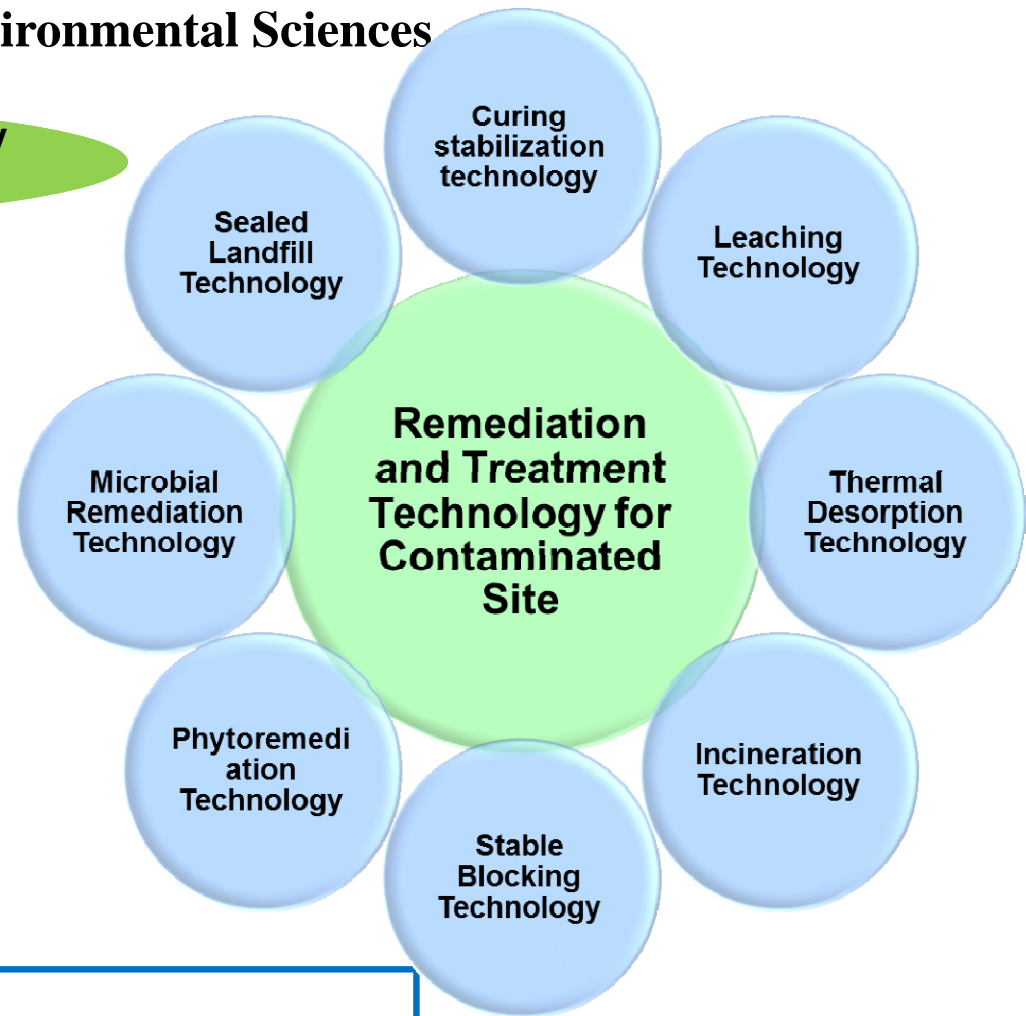


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Performance and Achievements

Remediation and Treatment Technology for Contaminated Soil and Site

Beginning in 2000, the Academy aimed for the treatment and remediation of contaminated soil and sites, and implemented systematic technological research work. The Academy has also conducted more than ten demonstration projects, and acquired four separate patents, mainly directing at petroleum, heavy metals, and organic compound contaminated sites.





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Performance and Achievements

Hazardous Waste Disposal Technology

The Academy began to engage in hazardous waste and medical waste disposal technology research in the 1980s, and it is the first unit that started the research work in hazardous waste-related fields, creating a series of hazardous waste and medical waste disposal technological results with independent intellectual property rights. The Academy has won several national, provincial and ministerial level scientific and technological progress awards.





Air Pollution Control Technology

In the 1980s, the Academy began to engage in the research of air pollution control technology, and it became the first unit that started the research work in the field of air pollution control, creating a series of technological results with independent intellectual property rights, and being able to undertake systematic services, including engineering consulting, engineering design, engineering construction, facility-based operation, etc.





Air Pollution Control Technology

Development and Application of Special Technologies

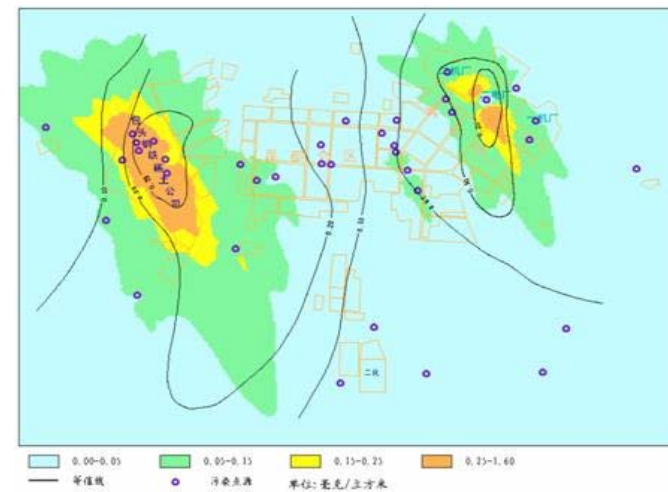
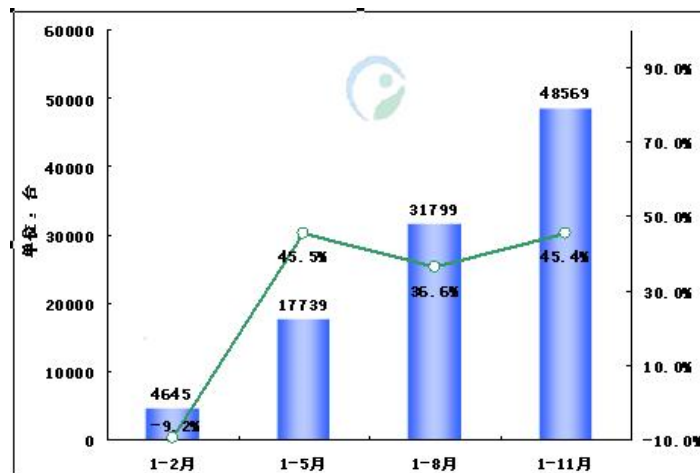
Coal-fired Boiler Energy Saving and Emission Reduction Technology Evaluation Platform

VOC Pollution Control Technology Experimental Platform

Mobile Denitrification Performance Testing Technology Platform

Coal-fired Boiler Flue Gas Purification Technology Evaluation and Performance Testing Platform

Energy-Saving Technology Testing Platform





**National Standards and Criteria
Compiled by the Academy**

In recent years, the Academy has undertaken the compilation of 24 national standards for environmental protection, including 4 pollution control standards, 2 testing standards and 18 engineering and technical norms.

| SN. | Name of Standards | SN. | Name of Standards |
|-----|-----------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------|
| 1 | Standard for Pollution Control on Hazardous Waste Storage (Revised Version) | 13 | Performance Testing of Hazardous Wastes (including Medical Wastes) Incineration Facility |
| 2 | Standard for Pollution Control on Hazardous Waste Incineration (Revised Version) | 14 | Non-Incineration Effects Standards and Testing Methods for Medical Wastes |
| 3 | Technical Specifications for the Construction of Projects for Centralized Incineration of Hazardous Wastes | 15 | Technical Specifications for the Projects of PCB Waste Incineration (Revised Version) |
| 4 | Technical Specifications for the Construction of Projects for Centralized Incineration of Medical Wastes | 16 | Operation Technical Specifications for Non-Incineration Treatment Facility of Medical Wastes (Revised Version) |
| 5 | Technical Requirements for the Construction of Projects for Centralized Landfill of Hazardous Wastes | 17 | Technical Specifications for the Construction of Projects for Centralized Incineration of Medical Wastes (Revised Version) |
| 6 | Technical Specifications for the Projects of Centralized Chemical Disinfection of Medical Wastes | 18 | Technical Specifications for the Projects of Centralized Microwave Disinfection of Medical Wastes (Revised Version) |
| 7 | Technical Specifications for the Projects of Centralized Microwave Disinfection of Medical Wastes | 19 | Technical Specifications for the Projects of Centralized Chemical Disinfection of Medical Wastes (Revised Version) |
| 8 | Technical Specifications for the Projects of Centralized High-Temperature Steam Treatment of Medical Wastes | 20 | Technical Specifications for the Projects of Centralized High-Temperature Steam Treatment of Medical Wastes (Revised Version) |
| 9 | Supervision and Administration Technical Specifications for Centralized Incineration Facility of Medical Wastes | 21 | Best Available Technical Guide for Medical Waste Treatment And Disposal Pollution Control |
| 10 | Technical Guidelines for Environmental Monitoring of Contaminated Sites | 22 | Control Standards of Pollutants from Medical Wastes |
| 11 | Technical Specifications for Collection, Storage, Transport of Hazardous Wastes | 23 | Control Standards of Pollutants from Coal Chemical Residue |
| 12 | Technical Specifications for the Projects of Constructed Wetland Sewage Treatment | 24 | Guiding Opinion on the Completion Acceptance of Centralized Treatment Facility of National Hazardous Wastes and Medical Wastes |



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As we are entering a new and historical age of global environmental advancement, the Shenyang Academy of Environmental Sciences is fortified with a perspective and open mindset toward the future in the global environment. As such, the Academy will always adhere to the core scientific concept of continuous research and development, maintaining technology research and development as the first priority, providing continuous personnel training, utilizing capacity improvement as a form of security, and utilizing industrial development to monetize economic growth and to accelerate the pace of growth. By quickening its development steps, the Academy will strive for establishing itself as an innovative first-class domestic leader in the global environment through international cooperation.

**The Shenyang Academy of Environmental Sciences
Welcomes You to Join us Hand-in-Hand in the Future
Growth and Progress.**