



# Annual Report 2017

Chinese Academy of Environmental Planning





# FOREWORD

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2017 was a year that China shook the world, was an epoch-making year for environmental protection, was a year that has witnessed the preliminary victory of the "Battle for Defending the Blue Sky", and was a delight and harvest year for Chinese Academy of Environmental Planning (CAEP for short). Our academy won the title of "Advanced Unit of the Ministry of Environmental Protection" several employees were commended by the Ministry of Environmental Protection, and our President WANG Jinnan was elected as an academician of the Chinese Academy of Engineering.

In 2017, Beijing defended the blue sky for 226 days thanks to the scientific decision-making designed by our Party Group, our unremitting efforts of numerous national guardians for environmental protection, the wisdom and painstaking efforts of the staff for CAEP. We always take a lead in the programs for the "Thirteenth Five-Year Plan", "Declaration of War on Pollution", the "Battle for Defending the Blue Sky", "Twenty Clauses on Soil and Water Conservation", "Central Environmental Protection Inspection", "Double Replacement Special Inspection", "Ecological Environmental Damage Compensation", "Environmental

Protection Tax Collection", the "Three Lines and One List", the "Danjiangkou, Erhai Lake and Baiyangdian Lake". We have planned a new blueprint for the programs of "Xiong'an New Area", "Two Mountains on Quzhou", "Beijing-Tianjin-Hebei", "Yangtze River Economic Belt", "Qinghai-Tibet Plateau" and "Beautiful Xinjiang".

2018 is the first year in which the decisions of the Nineteenth National Congress are fully implemented. It is the 40<sup>th</sup> anniversary of China's reform and opening up, and it is a crucial year for building an overall well-to-do society. The General Secretary Xi paints a construction blueprint of a beautiful China. Minister Li Ganjie formulates the policies of the battle for pollution prevention and control. Looking back on 2017, we have made great achievements. Looking ahead to 2018, we have a long way to go. Let us continue to adhere to the scientific, collaborative and sacrifice spirits, fulfill our full duties, confront our difficulties, work hard, and seek truthfulness, innovation, guidance and harmony as a way to fight against pollution prevention and control. We will make new contributions for the earlier completion of the new international think tank!

**LU Jun**  
Secretary of Party Committee, Vice President

**WANG Jinnan**  
President





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# ABOUT US

Who We Are?-Giving a brief introduction about CAEP.

## Our Vision and Mission

CAEP has always regarded providing the high-quality decision-making services for our country as the purpose of building the academy and has made remarkable achievements in the formulation of national plans for environmental protection, research and formulation of environmental policies, assessment of major environmental projects and environmental risk management.

Since 2001, we have conducted the preparation and research of more than 50 major national plans and more than 40 plans for protection of ecological environment in drainage basins and regions and carried out the research of over 110 major scientific and technological programs and programs for scientific and technological programs and more than 60 national environmental policies. More than 50 international cooperation projects have been completed. A number of completed plans, assessment reports and environmental policies were approved by the Chinese government and adopted to provide important technical support for the decision-making management of related departments.

We have won the many awards: 2 second prizes for the National Science and Technology Progress Award, 7 first prizes, 13 second prizes and 7 third prizes for the Environmental Science and Technology Award, 2 first prizes for the Science and

Technology Progress Award of the Ministry of Education, 1 special prize for Surveying and Mapping Technology Progress Award, 2 first prize awards, 3 second prizes and 1 third prize of the National Excellent Engineering Consultation Achievement Award, 1 second prize of the 6<sup>th</sup> Institution of Higher Education Scientific Research Outstanding Achievement Award (Works Award), 1 second prize for the Liaoning Science and Technology Award, 1 first prize for the 13<sup>th</sup> Philosophy and Social Science Outstanding Achievement Award in Sichuan Province, 1 first prize for the Outstanding Urban and Rural Planning Award in Guangzhou, the Policy Research Prize of 6<sup>th</sup> China Soft Science Award in 2017, and the second place in the 2010 (Swedish) Earth Sustainability Development Research Award.



▲ 2017 Global Go To Think Tank Index Report

According to the 2017 Global Go To Think Tank Index Report issued by the University of Pennsylvania, our academy is ranked the 36<sup>th</sup> in the world's top think tanks in environmental affairs, ranking the first among the selected Chinese environmental think tanks.



According to the 2017 Chinese Think Tank Comprehensive Evaluation Research Report released by the Chinese Academy of Social Sciences, our academy is ranked 3<sup>rd</sup> in research think tanks of national ministries and commissions.

According to the 2017 Chinese Think Tanks Report Influence Ranking and Policy Suggestions released by the Shanghai Academy of Social Sciences, our academy is ranked 1<sup>st</sup> in research think tanks of national ministries and commissions.



▲ 2017 Chinese Think Tank Comprehensive Evaluation Research Report



▲ 2017 Chinese Think Tanks Report Influence Ranking and Policy Suggestions

### Main Areas:

Chinese Academy of Environmental Planning of the Ministry of Environmental Protection of the PRC was established in 2001 as an independent legal entity.

### Planning and Preparation:

Undertake the works pertaining to preparation and implementation assessment of national long-term environmental strategic planning and specialized environmental protection plans for key river basins, key regions and key areas; carry out technological research of planning and formulation for theoretical methods, target indicators system and environmental planning; take charge of technical review of the relevant plans, technical support for plan implementation, and technical support for the preparation and implementation of total pollutant control plan.

### Project Evaluation Consultation:

Carry out technical consultation and assessment of planning programs; carry out examinations, technical services and performance evaluation of the central earmarked fund programs for environmental protection, planning programs of hazardous waste, and rural programs for environmental protection.

### Research on Policy Formulation:

Carry out research and technical support for environmental economic accounting, fiscal and economic policies, and ecological compensation policies relating to environmental protection, environmental auditing and so on.

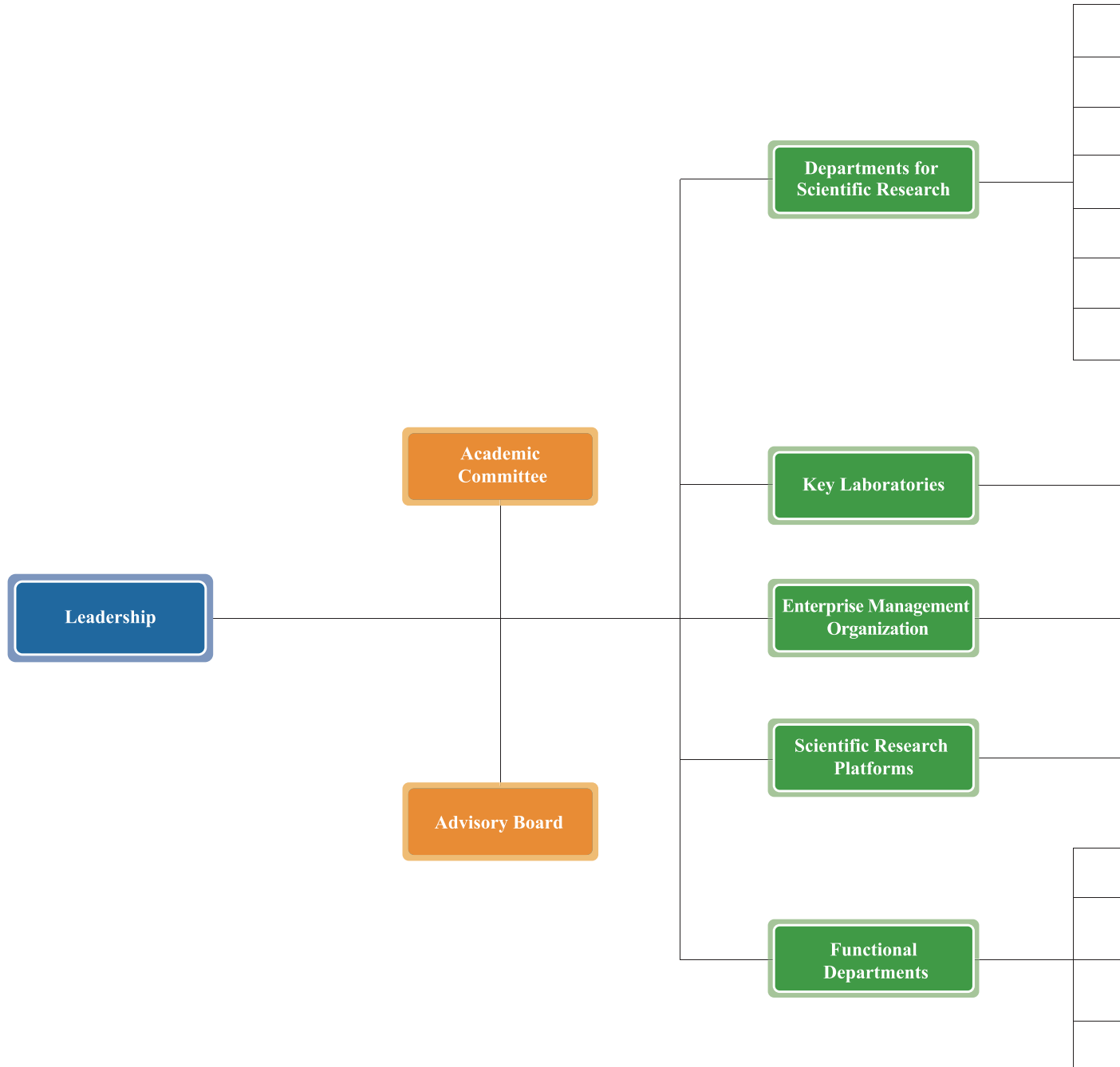
### Risk Assessment Management:

Offer research and technical support for environmental risk assessment and management, and the assessment of pollution damage and economic loss.





## Structure







- Institute of Environmental Strategic Planning
- Institute of Environmental Policy
- Institute of Water Environment Planning
- Institute of Atmospheric Environment Planning
- Institute of Ecological and Rural Environment Planning
- Institute of Public Finance and Investment Research
- Center for Environmental Risk and Damage Assessment
- Center for Soil Environmental Protection

Environmental Engineering Department

- Administrative Office (Party Committee Office)
- Personnel Department
- Scientific and Technological Development and International Cooperation Department
- Chief Engineer's Office
- Planning and Financial Department

- The State Key Laboratory for Environmental Planning and Policy Simulation
- The Laboratory for Environmental Damage and Ecological Restoration
- The Laboratory for Groundwater and Environment
- The National Engineering Laboratory for Safety Rehabilitation Technology in Contaminated Site
- Center for Total Quantity Control and Emission Trading
- Center for Ecological Environment Compensation
- Center for Environmental Research on Beijing-Tianjin-Hebei Region
- Center for Heavy Metal Pollution Prevention
- Center for Climate Change and Environmental Policy
- Center for Environment and Health
- Center for Environmental Zoning
- Center for Ecological Environment in Yangtze River Economic Zone
- Center for Environmental PPP
- Center for Tax of Ministry of Environmental Protection
- Center for Investment Performance Management
- Center for Ecological Environment and Economic Accounting
- Center for Rural Environmental Protection
- Center for Regional Air Quality Simulation and Control
- Center for Environmental Auditing



## Talent Team

In 2017, our professional talent team was further trained. At present, our academy has 1 academician, 27 senior fellows and 53 associate researchers (including senior engineers). Two comrades are rewarded with the title of "Leading Professionals in National Environmental Protection Technology", 4 employees are rewarded with the title of "Top Young Professionals

of National Environmental Protection Technology", 4 employees were gainers of the special allowance of the State Council, and 2 employees have entered the "The Most Influential Scholars Ranking List of Chinese Philosophy and Social Sciences". In all, we have owned a professional technology team with the high level of knowledge and reasonable age structure, and a talent pool.

### Academician of the Academy of Engineering



WANG Jinnan

President, CAEP  
Academician of the Academy  
of Engineering

Wang Jinnan, a Specialist for environmental planning and management and a native of Wuyi, Zhejiang, graduated from Tsinghua University in 1986, gained master's and doctoral degrees at Tsinghua University in 1988 and 2006 respectively. He currently serves as President of Chinese Academy of Environmental Planning and Director of The State Key Laboratory of for Environmental Planning and Policy Simulation. He acts as Chairman of the Global China Environmental Experts Association, Senior Advisor to the International Commission for Nature Conservation, and Deputy Director of the National Environmental Damage Assessment Evaluation Committee. He has presided over the formulation of major policies in environmental planning and environmental taxes and emissions trading for more than 20 countries and served as the main pioneer of the national environmental planning system, emission reduction project management and environmental economics. He published more than 300 papers and 11 works including Environmental Planning and Environmental Economics. He was rewarded with 2 second prizes for National Science and Technology Progress Award, 7 first prizes for Environmental Protection Science and Technology Award (ministerial level), and elected as the special character for green China. In 2017, he was elected as an academician of the Chinese Academy of Engineering.



## Institute of Environmental Strategic Planning



WAN Jun

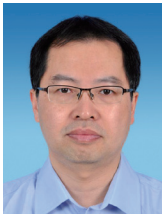
Deputy Chief  
 Engineer, Director,  
 Senior Fellow

The Institute of Environmental Strategic Planning organizes to carry out the studies on the medium and long-term national and regional environmental protection strategies, and environmental protection strategies in all sectors, organizes to carry out the studies on the national mid-term (five-year) comprehensive environmental protection planning, and studies on theoretical methods and technical research for the planning and preparation of environmental protection and formulates annual comprehensive plans for environmental protection, organizes to carry out the mid-term assessment and final evaluations of the implementation of comprehensive plans for environmental protection, and conducts the analysis of economic conditions and research on the formulation of environmental protection plans in typical regions or cities (groups). The department organizes the development of target indicators such as total quantity control and offers the technical support and undertakes the technical review of the relevant planning and technical guidance for the implementation of the plans.

**Director Assistants:** QIN Changbo, WANG Qian

**Group Members:** ZHOU Jinsong, WEN Lili, SU Jieqiong, Yu Xiangyong, Li Xin, NIU Ren, YANG Liyan, YU Lei, LV Hongdi, WANG Chenxin, ZHANG Nannan, ZHANG Peipei, XIONG Shangao, YUAN Kuikui, WANG Yi

## Institute of Ecological and Rural Environment Planning



WANG Xiahui

Deputy Chief  
 Engineer, Director,  
 Senior Fellow

The Institute of Ecological and Rural Environment Planning undertakes research and preparation of national and regional ecological environmental protection and restoration planning and technical specifications; carries out the research on relevant policies and regulations for ecological environmental protection; carries out the research and formulation of ecological environmental assessment, planning and implementation plans for key ecological function areas; formulates the related plans, policies and technical programs for agriculture and rural ecological environmental protection, non-point source pollution prevention and control, comprehensive renovation of village environment, and prevention and repair of soil pollution; conducts regional ecological and rural environmental quality assessment and biodiversity survey and evaluation research; carries out the research and preparation of national environmental functional zoning, ecological function zoning and implementation plans, and provides technical consultation.

**Director Assistants:** RAO Sheng, XU Kaipeng

**Group Members:** ZHANG Lirong, LIU Guihuan, LI Cuihua, ZHU Zhenxiao, MENG Rui, WEN Yihui, CHI Yanyan, ZHANG Xiao, WANG Jingjing, WANG Bo, LI Song, LI Zhitao, LU Guobin, MOU Xuejie, CAI Huixia, XIE Jing, PAN Ze, LIU Ruiping, MENG Linglong, SONG Zhixiao, JI Guohua, HUANG Guoxin, ZHANG Xiaoli, ZHENG Lijie, ZHANG Liping, GE Rongfeng, MA Ya, ZHU Yuanyuan, WANG Xiaoting, LI Ruoxi, ZHANG Xiaoqian



## Institute of Environmental Policy



GE Chazhong  
Director, Senior  
Fellow

Institute of Environmental Policy carries out research on environmental economic policies, including theoretical and empirical studies of environmental economic policies and measures such as taxes, charges, prices, credits and securities in the environmental management, theoretical research on environmental finance, product design and practical application research; carries out industrial research in environmental policy; organizes formulating and upgrading of "high-pollution and high-environmental-risk" product and process directories, and research on national environment-friendly products, processes, and equipment; conducts research in environmental and economic simulation and trade policy, green economy development strategy and policy and environmental performance; and carries out research on policies, institutions and systems for environmental management. The directors and researchers study the role of strategic environmental impact assessment in the environmental management and analyze the effectiveness of environmental policies and measures.

**Director Assistant:** DONG Zhanfeng

**Group Members:** GAO Shuting, YANG Qijia, LONG Feng, ZHOU Quan, LI Na, LI Hongxiang, WU Qiong, QU Aiyu, HU Rui, LI Xiaoliang, LI Jiedan, WANG Qin, DU Yanchun, DUAN Yunting, JIA Zhen, WU Sijun, CHENG Cuiyun

## Institute of Water Environment Plannin



WANG Dong  
Director, Senior  
Fellow

Institute of Water Environment Planning undertakes the work in the water environment planning, analyzes the current situation of water environment and carrying capacity in countries and drainage basins, organizes the preparation, implementation and assessment of plans for water pollution prevention and control in countries and drainage basins (groundwater and sea areas), and conducts the research in the formulation of the control plan, index allocation, control technology and supporting policy for the total main water pollutants in countries and river basins, analyzes pollution prevention and control technologies for typical industries of water pollution, conducts studies on the system, policies and solutions for water environmental protection in drainage basins, carries out research on the environmental protection of drinking water source areas and provides technical services for local planning for water pollution prevention.

**Deputy Director:** WU Yueying      **Director Assistant:** ZHAO Yue, LIU Weijiang

**Group Members:** ZHANG Ying, WEN Yi, ZHU Ganghui, JIN Liuxin, SHUN Hongliang, BAI Hui, WEI Daming, CHEN Yan, ZHAO Yanxin, GAO Zhiyun, ZHANG Tao, LI Lu, CHEN Jian, ZHANG Xiaolan, ZHANG Wenjing, YE Weili, GUO Liqin, LIU Yaling, WANG Qiang, WEN Yuli, XU Min, LU Rui, XIE Yangchun, XU Yanxue, YAO Ruihua, MA Lekuan, YANG Wenjie, SHUN Yunhai, ZHAO Kangping, HAN Xu, KANG Yang, WEI Minghai



## Institute of Atmospheric Environment Planning



LEI Yu

Deputy Director,  
Senior Fellow

The Institute of Atmospheric Environment Planning undertakes the preparation of the national plans for air pollution prevention and control, and interprovincial or regional plans for air pollution prevention and control, studies the basic theories and methods of atmospheric environmental planning, and establishes a technical method system for national acid rain control and regional planning for air pollution prevention and control; conducts the decomposition and distribution of emission reduction targets of total main atmospheric pollutants in the country and regions and the research on the control technologies, policies and methods for the total pollutant emission; researches policies for climate change, sustainable energy and environmental protection, formulates environmental protection plans for energy industry and carries out the assessment of the energy industry development on environmental impact.

**Director Assistant:** NING Miao

**Group Members:** XUE Wenbo, HA Yanmei, WU Weiling, ZHENG Wei, SHUN Yamei, LIU Wei, WANG Ning, CHEN Xiaojun, JING Ling, WANG Lijuan, TANG Qian, JIANG Chunlai, XU Yanling, ZHONG Yuezhi, WANG Yanchao, SONG Xiaohui, Yan Li, HE Jingyu, WANG Xuying, WANG Huili, WANG Yanli, DING Ze

## Institute of Public Finance and Investment Research



LU Yuantang

Director, Senior  
Fellow

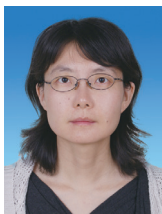
The Institute of Public Finance and Investment Research carries out the research on routine and financial power of environmental protection, environmental public finance policies, studies the establishment of the system of investment statistics and the system of public finance budget for environmental protection; carries out the design of the mechanism for the use of the special funds for environmental protection of the central government, project tracking and performance evaluation; takes charge of technical assessment of the programs for pollution prevention and control of hazardous wastes, heavy metals, and comprehensive environmental improvement; studies environmental industry, environmental service industry development policies and planning; carries out research on innovative modes for environmental service ; carries out research and follow-up assessment of the national environmental planning of basic capability construction; carries out preliminary research on major environmental protection programs, and provides evaluation and consulting services for the whole society.

**Director Assistant:** CHENG Liang

**Group Members:** SHUN Yuru, JIN Tan, ZHAO Yunhao, WANG Yi, ZHU Jianhua, LU Jing, CHEN Peng, XIN Lu, LU Ran, SONG Lingling, ZHANG Zhen, XU Shunqing, MA Chunhui, GAO Jun, WANG Zhaosu, WANG Jianing, CHEN Jin, MA Huanhuan, WU Juanni, LIU Shuangliu, YAO Mengyin



## Center for Environmental Risk and Damage Assessment



YU Fang

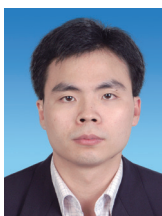
Director, Senior  
Fellow

**C**enter for Environmental Risk and Damage Assessment provides technical, institutional and policy support for the Ministry of Environmental Protection in environmental risk assessment and management, pollution damage appraisal, pollution damage compensation and remediation of contaminated sites, participates in the formulation of relevant national and regional policies and regulations, and conducts qualification management of the national agencies for environmental risk and damage assessment.

**Director Assistant:** CAO Guozhi

**Group Members:** ZHOU Ying, ZHANG Zhansheng, LIU Qian, QI Ji, TIAN Chao, ZHOU Hao, PENG Fei, XIE Guangxuan, ZHAO Xuetao, MA Guoxia, YANG Weishan, JIA Qian, ZHANG Yansen, ZHOU You, WU Qiong, WANG Kunpeng, XU Weipan, ZHU Wenying, ZHANG Zhihong, ZHOU Xiafei, Hanmei, SUN Qian, CAO Libin, ZHAO Dan, WANG Bing

## The State Key Laboratory for Environmental Planning and Policy Simulation



JIANG Hongqiang

Deputy Director,  
Senior Fellow

**F**acing the major demands of national environmental planning and policy, the laboratory conducts research in the analysis and forecasting on environmental situation, simulation analysis of environmental planning scenario and environmental planning policy, innovates basic theoretical methods for environmental planning and policy formulation, develops a number of key technologies of environmental planning and policy formulation, builds a simulation platform for environmental planning and policy integrating data, model, system and achievements of countries, drainage basins and regions, promotes cooperation and exchange among leading units and personnel in related fields in China, and cultivates outstanding innovative backbone personnel and leading talents so as to improve the scientific level and innovative skill of environmental planning and policy formulation.

**Director:** WANG Jinnan

**Director Assistant:** ZHANG Wei

**Group Members:** WU Wenjun, LU Yaling, LIU Nianlei, WU Yuewen, YANG Yong, LIU Jie, CHENG Xi, LEI Yu, XUE Wenbo, XU Min, YAO Ruihua, YU Xiangyong, LI Xiaoliang

## Environmental Engineering Department



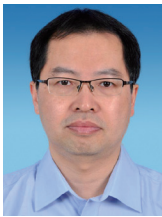
**SUN Ning**  
 Director, Senior  
 Fellow

In March 2015, with the approval of the Ministry of Environmental Protection, the Environmental Engineering Department of our Academy was formally established. The department specializes in the remediation of soil pollution, regional environmental investigation and troubleshooting, soil environmental survey and risk assessment, preparation of environmental remediation plans, acceptance evaluation of rehabilitated programs and site remediation projects. The Department offers main services including the preparation of plans for regional soil environmental investigation and regional pollution control implementation and risk assessment of soil environmental survey and consulting service for the formulation of restoration scheme and research in soil environmental remediation and soil environmental management.

**Director Assistants:** ZHANG Hongzhen, DING Zhenyu

**Group Members:** DONG Jinqi, ZHANG Qianwen, PENG Xiaohong, LEI Qiushuang, SI Shaocheng, ZHU Wenhui, SHUN Tianwei, ZHOU Xin, ZHANG Yi

## Center for Soil Environmental Protection



**WANG Xiahui**  
 Deputy Chief  
 Engineer, Director,  
 Senior Fellow

In order to meet the major demands of the national and local soil environmental protection, Center for Soil Environmental Protection researches and works out the planning, policies, and standards of soil pollution prevention and control, carries out technical assessment and screening, organizes and participates in the related works, such as basic surveys of soil environment and data management platform construction, provides technical consulting services for the related planning, policies, technical plans and engineering design of the soil environmental protection, pollution control and remediation commissioned by the relevant national departments, local governments and enterprises, conducts basic research in major scientific research programs and R&D plans for soil pollution protection, and carries out international cooperation and academic exchanges in the fields of soil environmental protection.

**Director Assistant:** LI Zhitao

**Group Members:** LIU Ruiping, MENG Linglong, HUANG Guoxin, SONG Zhixiao, JI Guohua, HE Jun, WANG Chao, JIA Jielin



# OUR WORK

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**What We Do?—Connecting our work to the people who make decisions and implement policy at different levels.**

## Overview 2017

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In 2017, our academy provided solid and strong support decision for the Ministry of Environmental Protection. Based on the deployment of key tasks of the MEP, we had undertaken 8 major tasks and provided the technical support for 55 specific tasks. We arranged more than 290 people to participate in the "Inspection for Bitter Campaign of Air Pollution Control in the Beijing-Tianjin-Hebei Region and the Surrounding Areas during the Autumn and Winter 2017-2018." Our academy won the title of "2017 Annual Advanced Unit of the Ministry of Environmental Protection".

Our academy's scientific research capacity has been further enhanced. We have undertaken 275 research programs, including 57 programs for financial budget, 45 programs containing National Key Technology Research and Development Programs and National Natural Science Foundation, 6 International Cooperation Programs, and 167 Horizontal Research Programs. 2 Major Science and Technology Program for Water Pollution Control and Treatment

required by "Thirteenth Five-Year Plan", 1 Premier Fund Program, and 8 subjects of it, 2 National Key Research and Development Programs have been approved.

We initiated innovative reforms in scientific research and issued the "Opinions on Accelerating Innovation in Decision-making and Scientific Research and Establishing New-type Environmental Think Tanks," and determined to implement reform measures in 12 aspects of the formation of talent teams, development of key disciplines, establishment of innovation platforms and laboratories and scientific research achievements.

We won 1 first prize for Policy Research Award of the 6<sup>th</sup> China Soft Science Award, 1 first prize for the Award for Outstanding Achievement of Forestry Engineering Consultation, 1 first prize for the Outstanding Research Achievement Award for the Beijing United Front System, and 1 first prize for 2017 Outstanding Award of Urban and Rural





Planning and Design for Guangzhou City. We applied for 10 patents and obtained 20 software copyrights. The academy published 28 academic monographs and 212 articles (including 15 important environmental decision-making references and 5 English-language articles in the internal publications), including 1 article in Nature, 25 articles in SCI, 9 articles in EI and 67 articles in Core Journal.

Our academy was included in the Chongqing Contaminated Site Evaluation Consultation and Governance Remediation Unit Directory to lay a foundation for expanding businesses. At the same time, as the attached unit of the Environmental

Planning Committee of the Chinese Environmental Science Association, the Environmental Economics Sub-committee, the Climate Change Sub-committee, and the Environmental Protection Policy and Agglomeration Area Professional Committee of China Environmental Protection Industry Association, our academy assisted the association in organizing two annual conferences of the sub-committee, hosted biannual conferences of the sub-committee, 2 large-scale seminars and 1 innovation forum, and completed the takeover of Environmental Economics Division and the Climate Change Sub-committee.





## Highlights 2017

### Decision-Making Management Support

In 2017, focusing on the support of management decision-making for environmental quality, our academy continued to lay a foundation for four core services of “Planning-Policy-Project-Risk Assessment”, giving full use of the role of think tank and providing important scientific and technological support for national and local environmental management.

*Study on the Preparation of Major Plans: Gave full play to the “planning” function, carried out research on planning theory and methods, and conducted in-depth preparation, implementation and related technical work of national, regional drainage basin and urban ecological environmental protection planning.*

#### National Planning

- ✓ Vigorously Carry Out Implementation of the Ecological Environmental Protection Planning Contained in the "Thirteenth Five-Year Plan";
- ✓ Provide the Technical Support for the Implementation and Assessment of the "Air Pollution Prevention and Control Action Plan";
- ✓ Continue to Further Promote the Implementation and Assessment of the “Water Pollution Prevention Action Plan”;
- ✓ Provide the Comprehensive Technical Support for the Implementation and Management of "Soil Pollution Prevention and Control Action Plan";
- ✓ Conduct Research on Prevention and Control Methods of Heavy Metal Pollution during the "Thirteenth Five-Year Plan";
- ✓ Perform in-Depth Analysis of Environmental Economic Situation.

#### Regional drainage basin planning

- ✓ Actively Join the Tasks Related to Ecological Environmental Protection in Xiong'an New Area;
- ✓ Intensify the Prevention and Control of Pollution in Beijing-Tianjin-Hebei Region;
- ✓ Promote Water Conservation in Key Drainage Basins and the Yangtze River Economic Belt;
- ✓ Support the Strategic Layout of Environmental Protection under the “Belt and Road Initiative”.

#### Provincial and Urban Planning

- ✓ Prepare Xinjiang Environmental Protection plans;
- ✓ Explore Theory and Practice of the Urban Environmental Planning;
- ✓ Continue to Carry out Practice of Overall Urban Environmental Planning.



***Environmental Management and Policy Research:*** Deepen research on the theory and practice of the reform of ecological civilization and ecological environmental protection and provide strong support for the reform in the national ecological civilization system and ecological environmental protection.

- ✓ Gather the Elites to Study and Draft Major Documents Necessary for the Party Central Committee, the State Council and the Ministry of Environmental Protection;
- ✓ Promote the Reform of System and Mechanism for Ecological Environmental Protection;
- ✓ Offer Full Support for the Delineation and Management of Ecological Protection Redline;
- ✓ Innovate and Support the Management of Rural and Agricultural Technologies of Environmental Protection;
- ✓ Support Management of Ecological Compensation, Nature Reserves and Biodiversity.

***Project Investment Consultation and Research in environmental protection industry:*** Promote environmental engineering investment consultation and research in environmental protection industry; strive to explore new areas, new growth, new cooperation and new development of CAEP.

- ✓ Strengthen the Protection of Investment in Environmental Protection ;
- ✓ Promote Research on the Development of Environmental Protection Industry;
- ✓ Carry out the Practice of Pollution Remediation Engineering;
- ✓ Develop the Environmental Cooperation Partnership.

***Environmental Risk Study:*** Actively carry out research on the system of environmental quality and health risk management to provide support for the establishment of a new management model of "environmental quality-health risk."

- ✓ Deepen the Study of Management of Urban Atmospheric Environmental Quality Compliance;
- ✓ Promote the Establishment of Water Quality Management System in the Basin;
- ✓ Put forward the Overall Framework of Soil Environmental Protection in the New Era;
- ✓ Promote the Research on Environmental Functional Zoning and Assessment of Strategic Environmental Impact;
- ✓ Support the Development of Monitoring and Early Warning Platform for National Environmental Carrying Capacity;
- ✓ Carry out Management and Policy Research in Comprehensive Compliance Plan for Pollution Source Emission;
- ✓ Actively Respond and Participate in Environmental Risk Management;
- ✓ Conduct Research on Environmental and Health Management Policies;
- ✓ Promote Coordinated Research on Climate Change and Environmental Improvement.



## Major National Scientific Research Programs

In 2017, CAEP had been undertaking 45 scientific research projects, including National Key Research and Development Program, National Natural Science Foundation Programs and etc., Among these 2 Major Science and Technology Program for Water Pollution Control and Treatment required by "Thirteenth Five-Year Plan", 1 Premier Fund Program, and 8 subjects of it, 2 National Key Research and Development Programs had been approved.

### National Key Research and Development Program

#### Special Programs for Pilot Research on Air pollution Causes and Control

- Pilot Study on Innovation and Entrepreneurship Policy Mechanism of Atmospheric Environmental Protection Industrial Park (Leading, Program Leader: Lu Yuantang)
- Research on Management Policy and Supporting Technologies of Pollution Discharge Permit (leading, Program Leader: Jiang Hongqiang)
- Research on Roadmap for Improvement of Air Quality in the Country and Major Regions (Leading, Program Leader: Lei Yu)
- Research on Dynamic Regulation of Regional Air Pollution and Multi-Objective Optimized Decision-Making Technology (Leading, Program Leader: Cai Bofeng)
- Integrated Assessment Model and System Construction for the Costs and Benefits of Air Pollution Prevention and Control ((Leading, Program Leader: Zhao Xuetao)
- Research on Assessment Technology for Damages from Sudden Air Pollution Incidents (Leading, Program Leader: Zhou Ying)
- Research on Joint Prevention and Control Mechanism and Overall Technical Plan of Air Pollution for Urban Agglomeration in Central Plains (Leading, Program Leader: Yang Jintian)

#### Key Special Programs for Research on Typical Fragile Ecological Restoration and Protection

- Research on Ecological Compensation Mode, Standard Accounting and Policies & Measures (Leading, Program Leader: Liu Guihuan)
- Research on the Ecological Capacity and Industrial Consistency Evaluation Technology in Typical Regions (Leading, Program Leader: Rao Sheng)

### Major Science and Technology Program for Water Pollution Control and Treatment

- Research on Comprehensive Management and System Innovation of Water Environment Quality in Beijing-Tianjin-Hebei Regions (Leading, Program Leader: Wang Dong)
- Research on key technologies and demonstration for the paid use of water pollutant discharge rights (Leading, Program Leader: Wang Jinnan)
- Research on Decision-making Support Platform for Water Pollution Prevention Planning in River Basin (Leading, Program Leader: Jiang Hongqiang)
- Research on Development Strategy and Policy and Demonstration for Water Environment Industry (Leading, Program Leader: Sun Ning)
- Demonstration Study on Ecological Compensation and Economic Responsibility Mechanism in Cross-border Key Watersheds (Leading, Program Leader: Liu Guihuan)
- Economic Policy Innovation and System Integration of Water Environment Management in River Basin (Leading, Program Leader: Dong Zhanfeng)



### National Natural Science Foundation Program

- Research on Watershed Ecological Compensation Standards Based on the Balance of Ecosystem Services (General Program, Person in Charge: Liu Guihuan)
- Eco-Environmental Cost Accounting and Trend Simulation of Regional Economic Development in China (General Program, Person in Charge: Ma Guoxia)
- Research on China's CO<sub>2</sub> Emission Reduction Strategy Based on Peak Forecasting (General Program, Person in Charge: Liu Lancui)
- Research on the Environmental Impact of China's Carbon Market Based on the Emission-Transport-Exposure Model (General Program, Person in Charge: Cai Bofeng)
- Research on Coupling Methods of Site Life Cycle Impact Assessment (LCIA) and Conventional Methods for Risk Management and Control (Youth Program, Person in Charge: Zhang Hongzhen)
- Research on The Spatial-Temporal Characteristics and Environmental Equity of China's Air Pollution Transfer (Youth Program, Person in Charge: Zhang Wei)
- Research on Preparation of Iron-Aluminum Bimetallic Materials with Core-Shell Structure and Its Reduction Mechanism for Chlorinated Hydrocarbon Pollutants in Soil (Youth Program, Person in Charge: Yang Wenjie)
- Research on Means and Mechanisms for Regional Air Quality Management (Key Program, Joint Commitment, Person in Charge: Wang Jinnan)

### National Public Welfare Research Project of Environmental Protection Industry

- Research and Demonstration of Control System for Total Pollutants Based on Environmental Capacity and Quality Constraints (Leading, Program Leader: Wu Shunze)
- Regional Research on Regional Characteristics of Air Pollution and Air Quality Management in China (Joint Research, Person in Charge: Ning Miao)
- Research on Management Model and Effectiveness Assessment Method of Soil Risk of Cultivated Land (Joint Research, Person in Charge: Wang Xiahui)
- Research on the High-Resolution Emission Inventory and Total Quantity Control of Industrial Boiler Air Pollutants (Joint Research, Person in Charge: Yan Li)
- Objectives and Planning for Air Quality Zoning Management (Joint Research, Person in Charge: Ning Miao)
- Research on Accounting Methods for the Impact of Climate Change on the Loss and Damage of Water Environmental Quality (Joint Research, Person in Charge: Cao Dong)
- Research on the Technical Method System of Urban Emission Inventory Preparation (Joint Research, Person in Charge: Lei Yu)
- Simulation Estimation and Empirical Study on Pollution Load of Livestock and Poultry Breeding (Joint Research, Person in Charge: Cao Dong)

### Causes of Heavy Atmospheric Pollution and Governance Research Program (The Premier Fund Program)

- Regional Air Carrying Capacity and Air Quality Improvement Roadmap (Leading, Project Leader: Lei Yu)

### National Social Science Foundation Project

- Research on Environmental Risk Assessment and Management of Drinking Water Sources along the Yangtze River Economic Belt (Leading, Project Leader: Sun Hongliang)

### National High-tech Research and Development Program (863 Program)

- Research on Sustainable Policy Guarantee System for Contaminated Soil and Site Risk Management (Joint Research, Project Leader: Zhang Hongzhen)



## Policy Engagements

The core purpose of CAEP is the principle that scientific knowledge can, and should, be integral to decision-making. Our policy engagement work aims to provide policy- and decision-makers with effective support. In this year, CAEP has actively given support in introducing Plans, Policies, and Standards in national and regional level. These below are some of them:

- 01 Reform Plan of Ecological Environmental Damage Compensation System (No.68 Document of General Office of the CPC Central Committee, 2017)
- 02 Thirteenth Five-Year Plan for Water Pollution Control and Soil and Water Conservation in the Danjiangkou Reservoir Area and the Upper Reaches (No.1002 Document of Development and Reform Region, 2017)
- 03 The Second National Pollution Source Survey Plan (No.82 Document of State Council, 2017)
- 04 Budget Manual for the Second National Pollution Source Survey Project(No.3 Document of National Pollution Survey Office, 2017)
- 05 Rules of Procedure for State Council's Second National Pollution Source Survey Leading Group Office((No.2 Document of National Pollution Survey Office, 2017)
- 06 Trial Scheme for Establishment of Horizontal Ecological Compensation Mechanism in the Yangtze River Basin (Draft for comments) (No.49 Document of Economic Construction Department of Ministry of Finance, 2017)
- 07 Work Program for Water Pollution Prevention and Control in the Beijing-Tianjin-Hebei Region (No.1, Document of Beijing-Tianjin-Hebei Co-development Leadership Office, 2017)
- 08 Yangtze River Economic Zone Ecological Environment Protection Plan (No.88 Document of Planning and Finance Department, MEP, 2017)
- 09 Related Requirements for Total Emission Reduction Accounting of Major Pollutants in 2017(No.1911 Document of Planning and Finance Department, MEP, 2017)
- 10 Work Program for the Assessment and Evaluation of 2017 Water, Air Quality and Total Targets Completion (No. 260 Document of Planning and Finance Department, MEP, 2017)
- 11 Water Pollution Prevention Planning of Key Watershed (2016-2020) (No.142 Document of Water Environment Management Department, MEP, 2017)
- 12 The 13th Five-Year Plan for the Comprehensive Improvement of the Rural Environment in the Whole Country (No. 18 Document of Water Environment Management Department, MEP, 2017)



- 13 Work Program for Prevention and Control of Volatile Organic Compounds Pollution in 13th Five-Year Plan Period (No.121 Document of Air Environment Management Department, MEP, 2017)
- 14 Work Program of Implementing the Several Opinions on Delineating and Strictly Protecting Ecological Protection Red Lines (No.49 Document of Natural Ecology Department, MEP, 2017)
- 15 Guidance for the Delineation of Ecological Protection Red Line (No.1290 Document of Natural Ecology Department, MEP, 2017)
- 16 Surveillance Work Program for Delineating and Strictly Protecting Ecological Protection Red Lines HBSTH (No.1290 Document of Natural Ecology Department, MEP, 2017)
- 17 Guiding Opinions on Strengthening the Construction of Integrated Prevention and Control Pilot Area of Soil Pollution (No.165, Document of Soil Environmental Management Department, MEP, 2017)
- 18 Working Rules of the Inter-Ministerial Coordination Group for Soil Pollution Prevention and Control in the Whole Country (No.498, Document of Soil Environmental Management Department, MEP, 2017)
- 19 Recent Working Points of the Inter-Ministerial Coordination Group for Soil Pollution Prevention and Control in the Whole Country ((No.498, Document of Soil Environmental Management Department, MEP, 2017)
- 20 "One Belt and Road" Eco-environment Cooperation Planning (No.65, Document of International Cooperation Department, MEP, 2017 )
- 21 Technical Regulations on of Domestic Sources Boiler General Survey in the Second National Pollution Sources General Census (No.188 Document of Pollution Survey Department, MEP, 2017))
- 22 Outline of "Thirteenth Five-Year Plan" Environmental Policies and Regulations Construction (No.24, Document of Policies, Laws and Regulations Department, MEP, 2017)
- 23 Several Opinions on Establishing a Long-term Mechanism for Monitoring and Early Warning of Resources and Environmental Carrying Capacity (No.25, Document of Office Department, MEP, 2017)
- 24 Several Opinions on Delineating and Strictly Protecting Ecological Protection Red Lines [2017] (No.2, Document of Office Department, MEP, 2017)
- 25 Thirteenth Five-Year Plan for Comprehensive Prevention and Control of Heavy Metal Pollution in Guangxi Zhuang Autonomous Region (No.3, Document of Office of Legislative Affairs of Guilin, 2017)
- 26 Notice of the People's Government of Henan Province on the Clean Soil Action Plan of Henan Province ( No.13 Document of Henan Government, 2017)

# SCIENTIFIC ACHIEVEMENTS

What We Achieve?—We do the integrative research that finds solutions to problems and makes action happen.

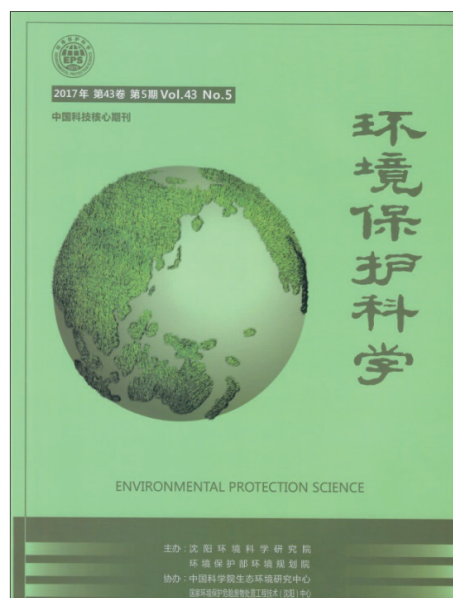
## Academic Periodicals

*Chinese Journal of Environmental Management* is a core journal of Chinese environmental protection, and co-organized by CAEP. It is included in the Chinese SCI-tech Periodical Database, Chinese Periodical Full-text Database, and Chinese Academic Journal Evaluation Database. (International Standard Serial Number: ISSN1674-6252.)

*Environmental Protection Science* is sponsored by CAEP. It is a core journal of Chinese science and technology and is included in such retrieval systems as American Chemical Abstracts Database, Comprehensive Evaluation Database of Chinese Academic Journals and Chinese Science Citation Database. (International Standard Serial Number: ISSN1004—6216.)



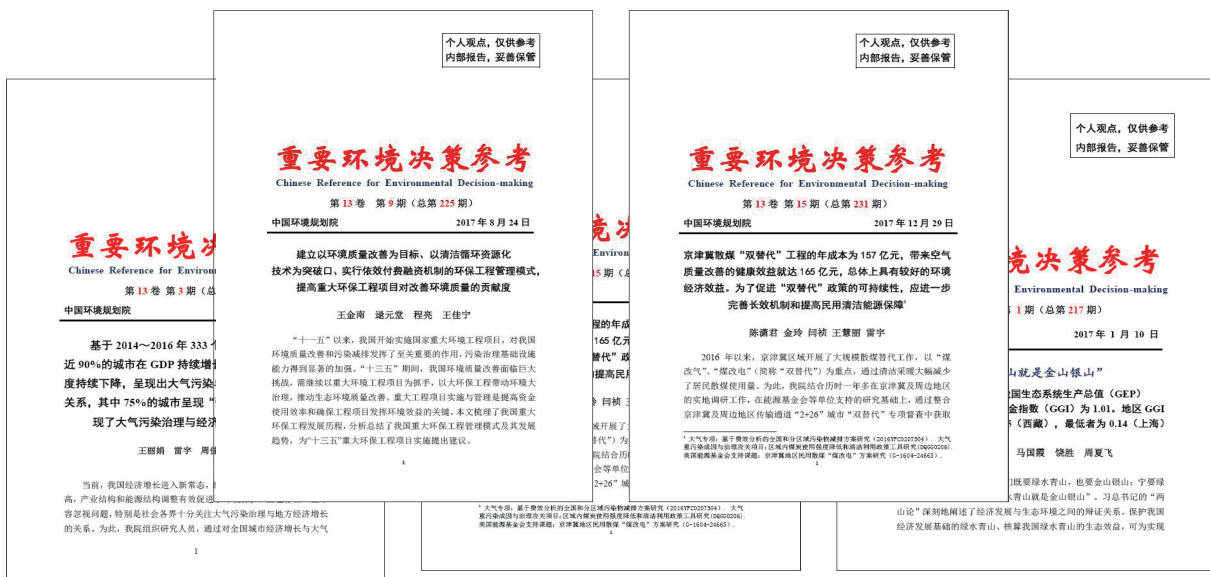
▲ Chinese Journal of Environmental Management



▲ Environmental Protection Science

*The Chinese Reference for Environmental Decision-making (in Chinese version)* is a policy advisory report produced by CAEP based on major environmental issues, environmental planning and policy 15 issues were published in 2017.

*The Chinese Environmental Policy Research Working Paper (in English version)* is an internal publication produced by CAEP for the promotion of international academic exchanges based on the results of the formulation and implementation of environmental policies and international cooperation program. 5 issues were published in 2017.



▲ The Chinese Reference for Environmental Decision-making



▲ The Chinese Environmental Policy Research Working Paper

## Scientific Publications

- 01 Ecological and Environmental Protection Plan for the 13th Five-Year Period (Bilingual Chinese and English Versions)
- 02 Study on Strategy of Environmental Protection in Beijing-Tianjin-Hebei Region
- 03 Environment Protection 2020: Strategic Transformation with Environmental Quality Improvement as the Core
- 04 Study on Soil Pollution Prevention Action Plan
- 05 Study on the Reform of Water Governance System and Mechanism
- 06 Study on Development Strategy and Key Policies of Water Environment Industry
- 07 Theoretical Methods and Typical Cases of Investigation and Evaluation of Groundwater Basic Environment Condition
- 08 PM<sub>2.5</sub> Transfer Characteristics and Environmental Capacity Simulation
- 09 Study on China Urban Carbon Dioxide Emission Assessment
- 10 Ecological Environment Compensation: Methods and Practices
- 11 Formation Technology and Application for Balance Sheet of Ecological Environment
- 12 Environmental Investment Assessment for the 12<sup>th</sup> Five-Year Plan Period
- 13 Study on Urban Agglomeration Ecosystem Safety Thresholds and Space Control and Zoning
- 14 Research on the Comprehensive Improvement Technology Model and Industrialization Promotion Mechanism of Village and Town Environment
- 15 China Provincial Environmental Performance Assessment (2011-2013)
- 16 Guidelines for Selection of Environmental Planning and Regulation Models and Standardization Application Technology
- 17 Training Materials of Environmental Risk Assessment on China Carbon Dioxide Geological Sequestration





## Articles

No.	Title	Authors	Journal	Included
1	Environment: China's decadal pollution census	HU Qing; ZHAO Xuetao; YANG Xiaojin;	Nature	SCI
2	Resolution dependence of uncertainties in gridded emission inventories: a case study in Hebei, China	ZHENG Bo; ZHANG Qiang; TONG Dan; CHEN Chuchu; HONG Chaopeng; LI Meng; GENG Guannan; LEI Yu; HUO Hong; HE Kebin;	Atmospheric Chemistry and Physics	SCI
3	Aerosol optical depth retrieval from visibility in china during 1973-2014	ZHANG Zhaoyang; WU Weiling; WEI Jing; SONG Ying; YAN Xiaotong; ZHU Lidong; WANG Quan;	Atmospheric Environment	SCI
4	A high-resolution air pollutants emission inventory in 2013 for the Beijing-Tianjin-Hebei Region, China	QI Ji; ZHENG Bo; LI Meng; YU Fang; CHEN Chuchu; LIU Fei; ZHOU Xiafei; YUAN Jing; ZHANG Qiang; HE Kebin;	Atmospheric Environment	SCI
5	Release of reactive phosphorus from sediments in Dongting Lake linked with the Yangtze River	LIANG Tao; TONG Yali; WANG Xiahui; WANG Lingqing;	Environmental Chemistry	SCI
6	A two-level comparison of CO <sub>2</sub> emission data in China: Evidence from three gridded data sources	WANG Mingshu; CAI Bofeng;	Journal of Cleaner Production	SCI
7	How scholars and the public perceive a “low carbon city” in China	CAI Bofeng; GENG Yong; YANG Weishan; YAN Pingzhong; CHEN Qianli; LI Dong; CAO Libin;	Journal of Cleaner Production	SCI
8	Estimation of nutrient discharge from the Yangtze River to the East China Sea and the identification of nutrient sources	TONG Yindong; BU Xiaoge; CHEN Junyue; ZHOU Feng; CHEN Long; LIU Maodian; TAN Xin; YU Tao; ZHANG Wei; MI Zhaorong; MA Lekuan; WANG Xuejun; NI Jing;	Journal of Hazardous Materials	SCI
9	Quantifying Changes of Villages in the Urbanizing Beijing Metropolitan Region: Integrating Remote Sensing and GIS Analysis	WANG Kun; ZHOU Weiqi; XU Kaipeng; LIANG Hanmei; YU Wenjuan; LI Weifeng;	Remote Sensing	SCI
10	Environmental concern-based site screening of carbon dioxide geological storage in China	CAI Bofeng; LI Qi; LIU Guizhen; LIU Lancui; JIN Taotao; SHI Hui;	Scientific Reports	SCI
11	Interactions between <i>Pteris vittata</i> L. genotypes and a polycyclic aromatic hydrocarbon (PAH)-degrading bacterium ( <i>Alcaligenes</i> sp.) in arsenic uptake and PAH-dissipation	SUN Lu; ZHU Ganghui; LIAO Xiaoyong; YAN Xiulan;	Environmental Pollution	SCI



# Patents and Software Copyrights

## Patents

- ▶ Integration System and Method for Heat Strengthening Multiphase Extraction and Restoration of Soil and Groundwater at Gas Stations
- ▶ A Device for In-situ Remediation of Groundwater Pollution in an Agricultural Irrigation Well and a Method for Groundwater Remediation by the above Device
- ▶ Preparation of a Modified Micron Zero-valent Iron and Its Application in Soil Heavy Metal Pollution Remediation
- ▶ A Caterpillar Type Soil and Groundwater Sampling Equipment
- ▶ Integrated Mercury Pollution In-situ Remediation Device
- ▶ A Bottom Mud Sampling Robot
- ▶ A Detection Device for Investigation and Restoration of Organic Contaminated Sites
- ▶ An Electrodynamic Rehabilitation Device for Heavy Metal Contaminated Soil
- ▶ A Groundwater Remediation Pool
- ▶ A Device for Ecological Restoration of Water Environment





➤ Software Copyrights

- Dynamic Collection and Management System of Water Environment Data
- Comprehensive Analysis System for Water Environment
- Input Response System for Water Environment
- Acquisition System V2.0 for Environment Basic Information of Drinking Water Source
- Information Management and Intelligent Decision-making System V1.0 for Survey and Assessment of Pollution Sources and Drinking Water Sources of National Groundwater
- System for Management Platform Construction of Rural Ecological Civilization Demonstration
- System for Red Line Information Management of Ecological Protection
- Module System for Red Line Ground Supervision of Ecological Protection
- Decision-making Support Platform of Watershed Water Pollution Prevention and Control Plan
- Information System V1.0 for Provincial-level Regional Environmental Performance Evaluation
- Application System V1.0 for Provincial Evaluation Performance of Ecological Environmental Protection







# CAPACITY DEVELOPMENT

How We Learn and Share?-Collaborating to share knowledge and strengthen the capacity of individuals, organizations and institutions to take action.

## Academic Conventions



▲ CCICED Annual General Meeting Open Forum- Yangtze River Protection and Innovative River Basin Governance



▲ EGSS Capacity Building Regional Workshop



▲ 2017 Annual Academic Conference of Environmental Economics Sub-committee



▲ 2017 Feedback Symposium on the Supervision of the Action Plan for Prevention and Treatment of Water Pollution





▲ Seminar on Joint Prevention and Control Mechanism and Overall Technical Plan of Air Pollution in Central Plains Urban Agglomeration



▲ Seminar on Planning and Implementation of National Rural Environment Comprehensive Improvement



▲ Seminar on Water Source Protection and Guarantee Mechanism during Water Diversion Operation of the South-to-North Water Diversion Project



▲ Symposium on National Ecological Assessment of Oil and Gas Resources



▲ Research Symposium on Policy Management for Ecological Red Line Protection of Ministry of Environmental Protection of the PRC



▲ National Conference on Technical Exchange of Biodiversity Conservation and Community Development Balancing Mechanism



## International Exchanges



▲ Ingvild Andreassen Saeverud, Norway's environmental counsellor, visited CAEP



▲ Professor James Salzman, Experts from University of California, visited CAEP



▲ Professor Susmita Dasgupta, Experts from World Bank, visited CAEP



▲ Dr. Christopher Gasson, Founder of GWI, visited CAEP



▲ The 2017 Natural Capital Symposium, USA



▲ The Co-benefits Study Tour, Japan



▲ Sino-Kazakh Environmental Protection Cooperation Committee - The 6th Working Group Meeting of Environmental Emergency Response and Pollution Prevention Control in Transboundary Rivers, and the 2nd Joint Expert Workshop Kazakhstan



▲ Technical Exchange Study for GEF Mainstreaming Integrated Water and Environment Management Project, Israel and France



▲ The Meeting of Sustainable Development Goals: Knowledge Sharing and Policy Dialogue , Germany



▲ The 1st Green Finance International Conference of St. Petersburg Initiative, Russia



▲ Exchange and Collaboration in Environmental Damage Compensation and Health Influence Assessment, USA



▲ Discussions about Air Quality Management in the US and China, USA





## Partnerships

### ➔ Strategic Cooperation



▲ Signing the Strategic Cooperation Agreement with Tianjin Port Group



▲ Signing the Strategic Cooperation Agreement with Huangshan Municipal People's Government



▲ Signing the Strategic Cooperation Agreement with Sichuan Province Environmental Protection Authority



▲ Signing the Strategic Cooperation Agreement with Hebei Province Environmental Protection Authority



➡ Actively Guide Local Ecological Civilization Construction

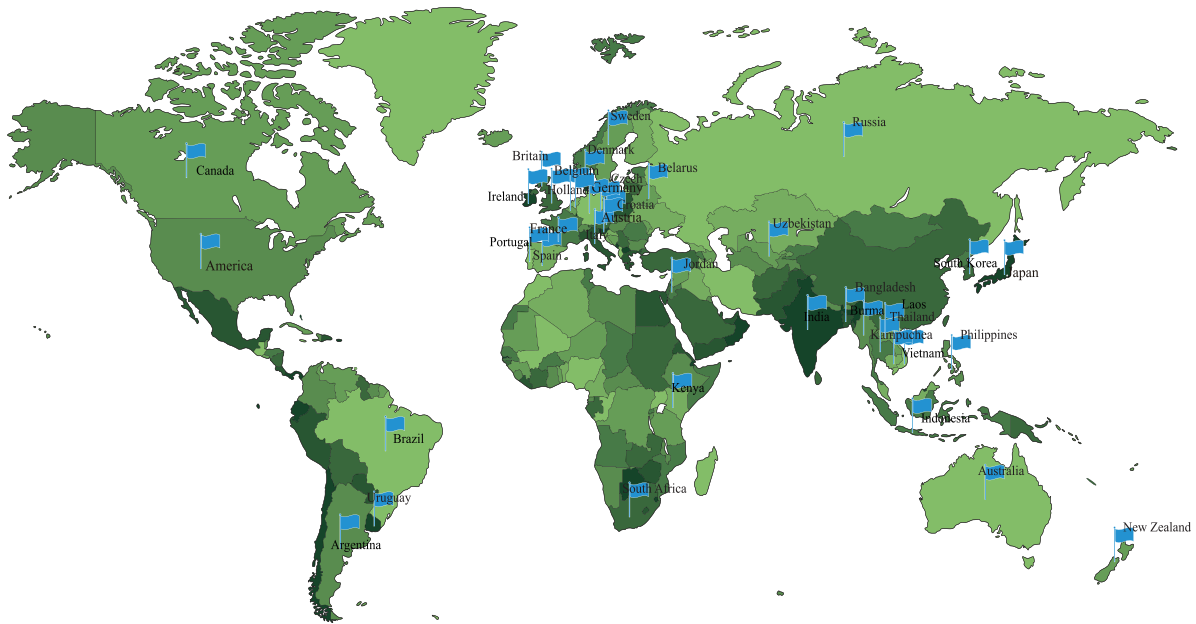
Providing environmental science and technology support services for local governments is an important task of CAEP. At present, our academy has offered support services in more than 160 city-level cities. In 2017, our academy took the lead in carrying out more than 10 innovative programs, such as, Study on Guizhou's Ecological Civilization Construction Strategy, Construction Planning for the Implementation of the "Two Mountains" Theory Demonstration City in Luzhou, Zhejiang Province and Construction Planning for the Ecological Protection Leading Area in Wujin District of Changzhou, Jiangsu Province. The innovative research has strongly supported the local ecological civilization construction and the exploration and practice of the "Two Mountains" Theory.





➡ Actively Carry Out International Exchanges and Cooperation

In 2017, CAEP actively explored cooperation and exchanges together with the world-class research institutes, and established long-term cooperation and exchange mechanisms with international think tanks, research institutes, colleges and universities, such as the Institute for Sustainable Development and International Relations (IDDRI, French), the Institute of International Industrial Economics (IIIE, Swedish), etc. A total of more than 70 people from famous institutions including the World Bank and Yale University of the United States visited our academy for exchanges and discussions.







## Culture Establishment



▲ The Third "Green Cup" Basketball Game



▲ International Working Women's Day Flower Arrangement Activity



▲ Visited "Honest Spiegel" Ming Dynasty Anti-corruption and Honesty Historical and Cultural Park



▲ New Year Evening Party



## KEY EVENTS

### 01 Wang Jinnan was Elected as Academician of the Chinese Academy of Engineering

On November 27, 2017, the Chinese Academy of Engineering officially announced the results of the 2017 academician election. Our academy's President Wang Jinnan was elected as the 2017 Academician of the Chinese Academy of Engineering.

### 02 Organized and Prepared Xiong'an New Area Ecological Environment Protection Planning

Took the lead in organizing the ecological environmental protection planning in Xiong'an New Area and drew high-quality ideas, prepared planning outline, planning text (draft report), atlas and six special reports.

### 03 New Leadership Adjustment of CAEP

On October 17, 2017, CAEP (affiliated to the Ministry of Environmental Protection) convened a cadre adjustment announcement meeting. Comrade Wang Jinnan was appointed as President of the CAEP; Comrade He Jun was appointed as the Vice-President of the CAEP.

### 04 Our Academy is Ranked the 36<sup>th</sup> in the World's Top Think Tanks

According to the 2017 Global Go To Think Tank Index Report issued by the University of Pennsylvania, our academy is ranked the 36<sup>th</sup> in the world's top think tanks in environmental affairs, ranking the first among the selected Chinese environmental think tanks.

### 05 Completed Beijing-Tianjin-Hebei Inspection Work with the Ministry of Environmental Protection

More than 290 people participated in the "Inspection for Bitter Campaign of Air Pollution Control in the Beijing-Tianjin-Hebei Region and the Surrounding Areas during the Autumn and Winter 2017-2018". Among them, five comrades had performed outstandingly in the inspection work and received the commendation notices from the General Office of the Ministry.



**06 Launch the "6+1" Comprehensive Reform**

Adhering to the guiding principle of “seeking truthfulness, innovation, guidance and harmony”, focusing on the reform themes and key areas and highlighting problem orientation, we implemented reforms in seven areas of "strengthening Party building and discipline inspection, leading scientific research development in an all-round way, perfecting the distribution system, reducing cross-functionality, strengthening cadres building, deepening the reform of the personnel system and promoting the role of mass organizations ("6+1" reform for short).



**07 Lead to Completing the Technical Guide of the "Three Line and One List", and Fully Launching the Implementation among 133 Prefecture-level Cities in 12 Provinces of the Yangtze River Economic Belt**

Completing the Technical Guide of the "Three Line and One List" and its related materials; Conducting pilots and research of "Three Line and One List"; Developing technical training and preaching of "Three Line and One List".

**08 Carry Out "Beautiful China 2035 Research"**

The program of "Strategic Research towards a Beautiful China's Ecological Environmental Protection" was launched in an all-round way and the "Fourteenth Five-Year Plan" study was conducted ahead of schedule.

**09 Outstanding Results in Targeted Poverty Alleviation and Counterpart Support had been Achieved**

We paid attention to actual results, actively implemented the tasks of targeted poverty alleviation, emphasized “teaching a man how to fish”, prepared poverty alleviation plans for the corresponding poverty alleviation areas, carried out cultural poverty alleviation, and continued to visit for sympathy. In 2017, three out of the four poverty villages that we assisted were out of poverty.



**10 Completion of Xinjiang Environmental Protection Plan**

Conducted on-site investigations and discussions of 14 regions and states, analyzed the status quo and situation of environmental protection in Xinjiang, and adhered to the "Five Unifies" ideology of the military. From the aspects of ecological space, green development, water, air, soil, ecological protection and restoration, etc., we proposed tasks and measures so as to effectively promote the overall management of environmental protection in the military.





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