Annual Report 2016

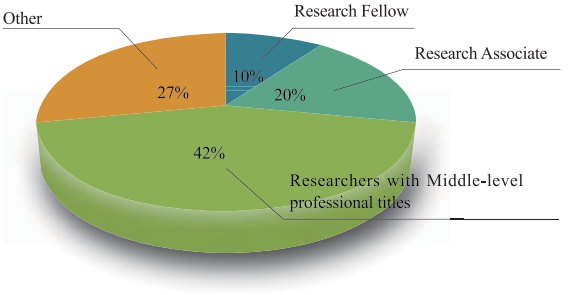
Chinese Academy of Environmental Planning

CONTENTS

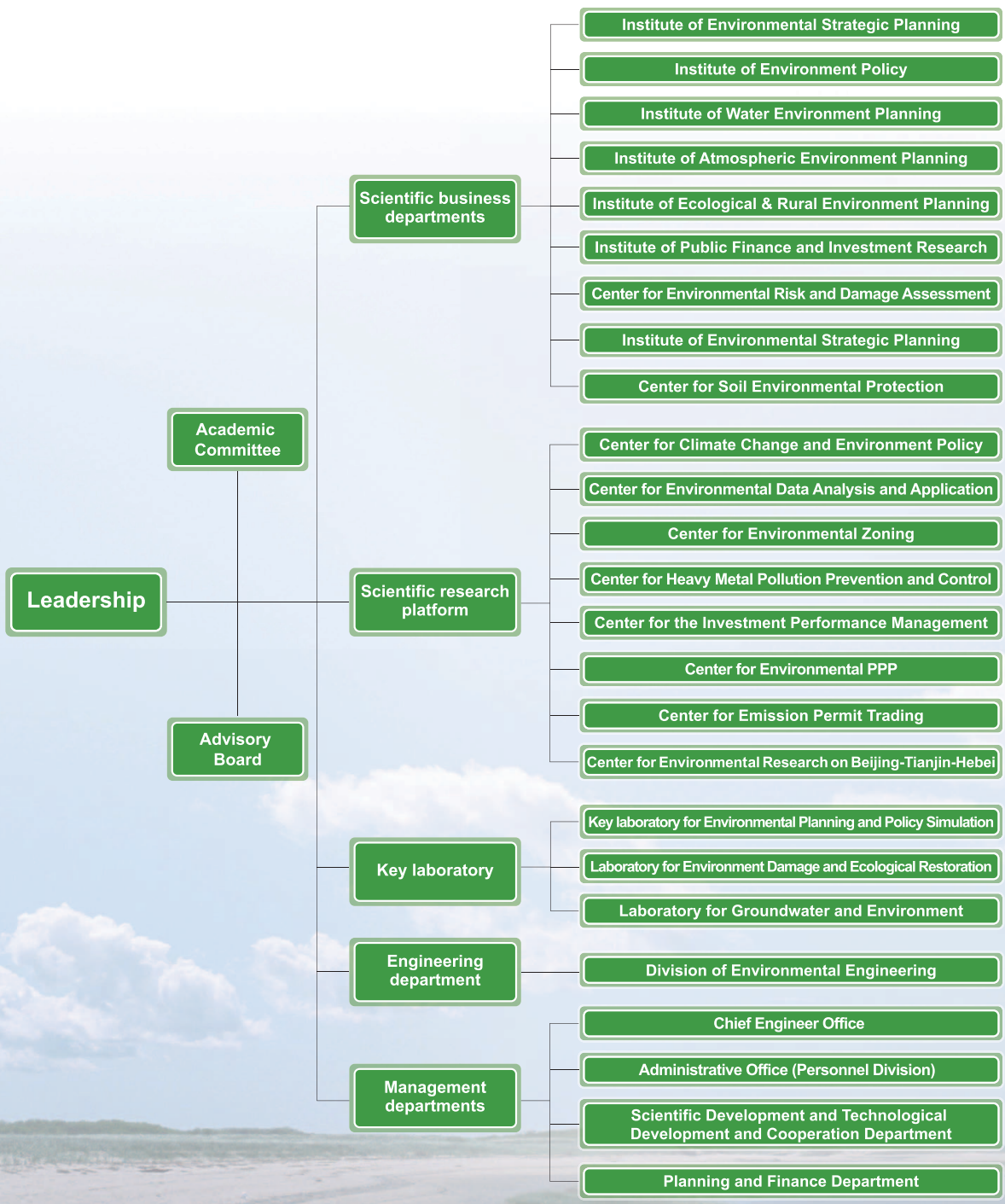
About Us / Introduction

Chinese Academy of Environmental Planning (CAEP) was established as an independent legal entity in 2001. The major activities undertaken by CAEP include: developing national medium and long-term environmental strategic planning and annual plans, other relevant special plans for pollution prevention and control and ecological conservation, studying on theories and approaches for the planning of river basin regions and urban environmental protection, as well as compiling, analyzing on the stimulation and forecast, assessing the implementation of those plans; providing technical consultation service and performance evaluation for the projects funded by central special fund; compiling the national pollutants emission reduction planning and its implementation schemes; supporting the data analysis and environment statistics of pollutants emission, pollutants emission reduction policy, environment capacity calculation, discharge permit, discharge trading and climate change etc.; providing technical support for the environment risk assessment and management, pollution damage assessment and economic loss assessment etc.; undertaking rural environmental protection and management of agricultural source; conducting research on environmental and ecological function zoning; engaging in study on environmental economic accounting, ecological compensation policies, environment auditing and other financial economic policies that related to environmental protection.

Since its establishment, CAEP has been aiming at providing high quality decision-making services to environment management departments, and has gained remarkable achievements in compiling of national environment protection planning, study and development of environmental policies and project consultation and assessment. In the past ten years, CAEP has accomplished more than 200 national environmental planning projects and research tasks, over 150 river basin and regional environment planning and over 80 international projects. CAEP has been granted 4 national awards and 36 provincial & ministerial level awards for its scientific achievements.



Organization



Outstanding Talents

State Council Experts for Special Allowance

Name	Main Research Area
Wang Jinnan	Environmental Planning and Policy Simulation
Title	
Vice President, Chief Engineer, Research Fellow	

Name	Main Research Area
Wu Shunze	Environmental Planning and Management, Aquatic Environmental Protection, Pollution Discharge Reduction, Engineering Investment
Title	
Vice President, Research Fellow	

Name	Main Research Area
Yang Jintian	Air Pollution Control and Planning, Air Pollution Prevention Policy, Pollution Discharge Reduction, Energy and Air Protection
Title	
Deputy Chief Engineer, Director of Institute for Atmospheric Environment Planning, Research Fellow	

Name	Main Research Area
Jiang Hongqiang	Environmental Planning and Policy
Title	
Executive Deputy Director of State Key Lab for Environmental Planning and Policy Simulation, Research Fellow	

Leading Talents

Name

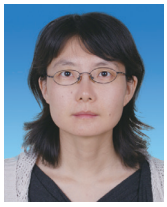
Wang Jinnan

Title

Vice President, Chief Engineer, Research Fellow

Main Research Area

Environmental Planning and Policy Simulation



Name

Yu Fang

Title

Deputy Director of Center for Environmental Risks and Damage Assessment, Research Fellow

Main Research Area

Environmental Risk and Damage Assessment, Environmental Economics Accounting, Environmental Health, Environmental Economics

Outstanding Young Talents

Name

Wan Jun

Title

Deputy Chief Engineer, Director of Institute for Environmental Strategic Planning, Research Fellow

Main Research Area

Five-Year Plan, National Medium and Long-term Environmental Protection Strategies, Environmental Planning for Regional and Urban Agglomerations, Environmental Spatial Planning, Urban Environmental Planning, Regional Ecology

Name

Jiang Hongqiang

Title

Executive Deputy Director of State Key Lab for Environmental Planning and Policy Simulation, Research Fellow

Main Research Area

Environmental Planning and Policy

Name

Lei Yu

Title

Deputy Director of Institute for Atmospheric Environment Planning, Research Fellow

Main Research Area

Atmospheric Environmental Protection

Name

Cai Bofeng

Title

Director of Center for Climate Change and Environment Policy, Research Fellow

Main Research Area

Environmental and Green House Gas Emission

Qualification Certificates

工程咨询单位资格证书

单位名称：环境保护部环境规划院　　资格等级：甲级

专业　　服务范围

生态建设和环境工程　　规划咨询，编制项目建议书，评估咨询

市政公用工程（环境卫生）　　规划咨询，评估咨询

以上各专业均涵盖了本专业相应的节能减排和环境治理内容。取得编制项目可行性研究报告、项目申请报告资格的单位。具备编制固定资产投资项目节能评估文件的能力和评估咨询资格的单位。具备对固定资产投资项目节能评估文件进行评审的能力。

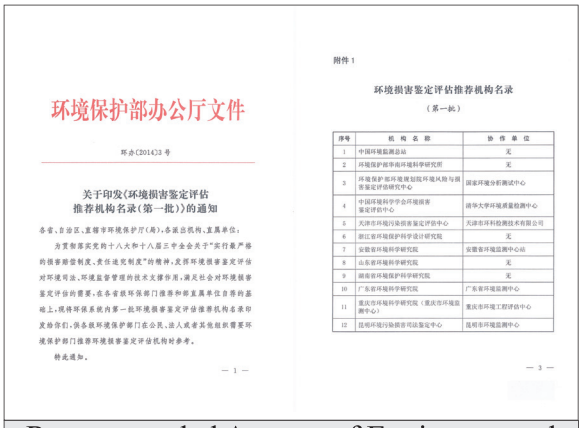
证书编号：工咨甲 20120090002

证书有效期：至 2019 年 08 月 13 日

2014 年 08 月 14 日

中华人民共和国国家发展和改革委员会制

Class A Qualification of Engineering Consultation



环境保护部办公厅文件

环办〔2014〕3 号

关于印发《环境损害鉴定评估推荐机构名录（第一批）》的通知

各省、自治区、直辖市环境保护厅（局），各派出机构、直属单位：

为贯彻落实党的十八大和十八届三中全会关于"实行最严格的损害赔偿制度、责任追究制度"的精神，及环境损害鉴定评估对环境司法、环境监管管理的技术支撑作用，满足社会对环境损害鉴定评估的需要，在各省级环保部门推荐和部直属单位自荐的基础上，现将环保系统内第一批环境损害鉴定评估推荐机构名录印发给你们，供各级环境保护部门在公共、法人或者其他组织需要环境保护部门推荐环境损害鉴定评估机构时参考。

特此通知。

— 1 —

附件 1

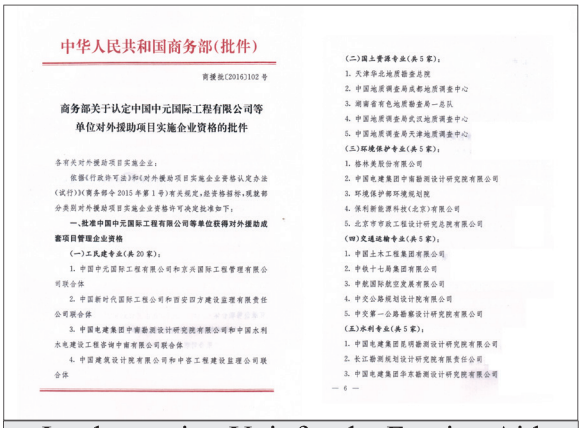
环境损害鉴定评估推荐机构名录

（第一批）

序号	机构名称	协作单位
1	中国环境监测总站	无
2	环境保护部华南环境科学研究所	无
3	环境保护部环境规划院环境风险与损害鉴定评估研究中心	国家环境分析测试中心
4	中国环境科学学会环境损害鉴定评估中心	清华大学环境质量检测中心
5	天津市环境污染损害鉴定评估中心	天津市环科检测技术有限公司
6	浙江省环境保护科学设计研究院	无
7	安徽省环境科学研究院	安徽省环境监测中心站
8	山东省环境科学研究院	无
9	湖南省环境保护科学研究院	无
10	广东省环境科学研究院	广东省环境监测中心
11	重庆市环境科学研究院（重庆市环境监测中心）	重庆市环境工程评估中心
12	昆明市环境污染损害司法鉴定中心	昆明市环境监测中心

— 3 —

Recommended Agency of Environmental Damage Appraisal and Evaluation



中华人民共和国商务部（批件）

商援批〔2016〕102 号

商务部关于认定中国中元国际工程有限公司等单位对外援助项目实施企业资格的批件

各有关对外援助项目实施企业：

依据《行政许可法》和《对外援助项目实施企业资格认定办法（试行）》（商务部令 2015 年第 1 号）有关规定，经资格招标，现就部分类别对外援助项目实施企业资格许可决定批准如下：

一、批准中国中元国际工程有限公司等单位获得对外援助成套项目管理企业资格

（一）工民建专业（共 20 家）：

1. 中国中元国际工程有限公司和京兴国际工程管理有限公司联合体

2. 中国新时代国际工程公司和百安田方建设监理有限责任公司联合体

3. 中国电建集团中南勘测设计研究院有限公司和中国水利水电建设工程咨询中南有限公司联合体

4. 中国建筑设计院有限公司和中咨工程建设监理公司联合体

（二）国土资源专业（共 5 家）：

1. 天津华北地质勘查总院

2. 中国地质调查局成都地质调查中心

3. 湖南省有色地质勘查局一总队

4. 中国地质调查局武汉地质调查中心

5. 中国地质调查局天津地质调查中心

（三）环境保护专业（共 5 家）：

1. 格林美股份有限公司

2. 中国电建集团中南勘测设计研究院有限公司

3. 环境保护部环境规划院

4. 保利新能源科技（北京）有限公司

5. 北京市市政工程设计研究总院有限公司

（四）交通运输专业（共 5 家）：

1. 中国土木工程集团有限公司

2. 中铁十七局集团有限公司

3. 中航国际航空发展有限公司

4. 中交公路规划设计院有限公司

5. 中交第一公路勘察设计研究院有限公司

（五）水利专业（共 5 家）：

1. 中国电建集团昆明勘测设计研究院有限公司

2. 长江勘测规划设计研究院有限责任公司

3. 中国电建集团华东勘测设计研究院有限公司

— 6 —

Implementing Unit for the Foreign Aid Projects of Ministry of Commerce

Work

Overview

In 2016, CAEP promoted the overall compiling of ecological and environmental protection plan for the 13th Five-year Planning Period, continued to intensify the compiling and implementation of the three action plans for air, water and soil, constantly enhanced the main tasks of "Plan-Policy-Project", and further improved the supporting capability of decision-making. CAEP had undertaken 267 various scientific research projects. Among these, 57 were sponsored by China national finance fund , 43 related to scientific research projects including State Key Research and Development Plan Programs, National Natural Science Foundation programs and Major Science and Technology Program for Water Pollution Control and Treatment, 167 were sponsored by local governments and enterprises, of which the revenue had increased 23% compared with prior year.

According to the 2016 Global Go to Think Tank Report released by the Think Tanks and Civil Societies Program at Pennsylvania University, CAEP was ranked 34 in the field of environment in the world, topping all the enlisted Chinese think tanks. In 2016, CAEP also boasts 1 second prize of National Science and Technology Progress Award, 1 Top Prize of Mapping Science and Technology

Progress, 1 Science and Technology Progress of the Ministry of Education, 2 second prizes and 2 third prizes of Environmental Protection Science and Technology Award. CAEP had also applied successfully 1 invention patent, 12 new practical patents and 10 software copyrights, and published 19 monographs, 299 articles, of which 3 were published in Science and Nature, thus making the important breakthroughs in publication in top science and technology journals. CAEP also won the bidding to be the implementation unit for foreign aid program of the Ministry of Commerce.

Key Work

In 2016, centering on improving environmental quality, CAEP solidified the basis of its three main tasks of "plan-policy-project", fully exerted the function of its think tank and provided important science and technology support for national and local environmental management.

Plan

CAEP has finished the compiling of Ecological environmental Protection Planning in the 13th Five-year Plan Period (No.65〔2016〕Issued by State Council), Action Plan for Prevention and Control of Soil Pollution (No.31〔2016〕Issued by State Council) as a technologically leading organization, the mid-term evaluation of Action Plan for Prevention and Control of Air Pollution and Regulations on Examination of the Implementation of Action Plan for Prevention and Control of Water Pollution. CAEP has also conducted the research and compiling of regional plans including the special ecological and environmental plan of "the Belt and Road Initiatives", ecological environment planning of the Yangtze River economic belt and intensified measures of air pollution prevention and treatment of Beijing, Tianjin and Hebei (2016-2017). In urban environmental planning, CAEP has conducted the summery work on the progress, techniques and methods of the master plan for 28 cities of the three batches and supported the progress of ecological civilization building programs in Guangdong Province, Guizhou Province, Xichang City and Baishan City.

Policy

CAEP has accomplished the acceptance and conclusion of provincial trial sites of environmental functional zoning and reported the work to the Ministry of environmental Protection; carried out the ecological influence and risk evaluation in the regional development of Beijing, Tianjin and Hebei, implemented the "three railroads" in Beijing-Tianjin-Hebei region. CAEP has also accomplished documents entitled Plan of National Rural Comprehensive Environmental Treatment in the 13th Five-year Plan Period (draft for comments), Several Opinions on Defining and Strictly Safeguarding the Ecological Protection Redline, Ecological and environmental Damage Assessment Technology Guideline (Master Program)

and Ecological and Environmental Damage Assessment Technology Guideline (Damage Survey), and provided important support to the comprehensive treatment of rural environment, ecological environmental monitoring and ecological damage assessment. Besides, CAEP has also promoted in-depth the system building and accounting of the ecological and environmental asset (green GDP2.0), actively conducted the research on pricing and taxation policies and accomplished the Handbook of Common Information About High Pollution, High Environmental Risk Products (Volume No.1).

Project

CAEP has accomplished the report on the performance evaluation work plan and performance evaluation of the special fund for air pollution prevention and treatment, as well as the report on evaluating the development of national environmental monitoring and management capability in the 12th Five-year Plan Period, undertaken the supportive work for fifth batch of trial sites management of the environmental service industry and the technical supportive work of Plan of Cultivating and Developing the Main Market Body of Agricultural Non-point Source Pollution Treatment, Rural Polluted Water and Waste Disposal (No.195 Document of Planning and Finance Department, MEP, 2016), finished the technical supportive work for promoting the first batch of PPP programs in the water pollution area and participated in the assessment work of the third batch of demonstration programs of the Ministry of Finance. It has conducted work in compiling the plans for polluted sites investigation, risk assessment, repairing engineering and pollution treatment in the pesticides and heavy metal area in Tongzhou District of Beijing. Besides, CAEP has also carried out the designing and R&D of device of passive in-situ sampling of heavy metal chemicals as well as stabilized recovering functional materials of site heavy metal zinc and chromium, and has successfully applied for the patents of many engineering repairing technologies.

In the application of national-level scientific research programs, CAEP has been financed for four of the special trial programs of research on air pollution causes and control technology under national key R&D plan which it has led for application, and led 13 of the national key R&D planning subjects. Meanwhile, it has also successfully applied for 1 Excellent Youth Program of National Natural Science Foundation (NNSF), 1 general program of NNSF and 1 National Social Science Foundation, thus reaching a higher level in the application of national scientific research programs.

Major National Scientific Research Programs

Special Programs of National Key R&D on Air Pollution Causes and Control

- Research on Road Map of the Nation and Major Regions Air Quality Improvement (Lead Project leader: Lei Yu)
- Research on Dynamic Adjustment of Regional Compound Air Pollution and Optimized Decision of Multiple Objectives (Lead Project leader: Cai Bofeng)
- Comprehensive Evaluation Model and System Construction on Cost Effectiveness of Air Pollution Prevention and Control (Lead Project leader: Zhao Xuetao)
- Research on Pollution Discharge Permit Management Policy and Technology Support (Lead Project leader: Jiang Hongqiang)
- Pilot Research on Air environmental Industrial Park Innovation and Entrepreneurship Policy Mechanism (Lead Project leader: Lu Yuantang)
- Research on Damage Assessment of Outburst Air Pollution Event (Lead Project leader: Zhou Ying)
- Study on Model, Standard Accounting and Policy Measures of Eco-compensation (Lead Project leader: Liu Guihuan)

Major Science and Technology Program for Water Pollution Control and Treatment

- Research on Planning and Decision Supportive Platforms for Basin Water Pollution Prevention Control (Lead Project leader: Jiang Hongqiang)
- Research on Key Technologies and Demonstration of Compensated Uses of Water Pollutants Discharge (Lead Project leader: Wang Jinnan)
- Research on Ecological Compensation and Economic Responsibility Mechanism Demonstration of Key Cross-province Basin (Lead Project leader: Liu Guihuan)
- Research on Development Strategy, Policy and Demonstration of Water Environment Industry (Lead Project leader: Sun Ning)

National Natural Science Foundation

- Synergy and Policy of Carbon Emission Reduction and Air Pollution Prevention Control (Lead Project leader: Liu Lancui)
- Research on China's Carbon Market Environment Based on the Model of Emission-Transmission-Exposure (Lead Project leader: Cai Bofeng)
- Accounting of the Ecological Environmental Cost and Trend Simulation of China's Regional Economic Development (Lead Project leader: Ma Guoxia)
- Research on Basin Ecological Compensation Standard Based on Ecological System Service (Lead Project leader: Liu Guihuan)
- Research on CO_2 Emission Reduction Strategy Based on the Peak Volume Forecast (Lead Project leader: Liu Lancui)
- Research on the Dispatching Methods of Life Cycle Impact Assessment (LCIA) and Conventional Risk Control Measures (Lead Project leader: Zhang Hongzhen)

- ✓ Research on the Temporal and Spacial Features and Environmental Equity Issue of China's Air Pollution Transfer (Lead Project leader: Zhang Wei)
- ✓ Research on Measures and Mechanism of Regional Air Quality Management (Joint Lead Project leader: Wang Jinnan)

National Social Science Foundation Project

- ✓ Research on Environmental Risk Evaluation and Management of Drinking Water Sources Along the Economic Belt of the Yangtze River (Lead Project leader: Sun Hongliang)

National Environmental Public Welfare Program

- ✓ Research and Demonstration of Pollutants Volume Control System Based on Environmental Capacity and Quality (Lead Project leader: Wu Shunze)
- ✓ Research on Application Demonstration of New Technology and New Model of Air Pollution Prevention and Control (Joint Lead Project leader: Zhao Yunhao)

National Key Technology Research and Development Program

- ✓ Comprehensive Control and Decision Support System of Air Quality in Beijing, Tianjin and Hebei (Lead Project leader: Ning Miao)
- ✓ Research on Water Disposal Equipment Standard and Industrial Innovation Capability Monitoring Indicator system (Joint Lead Project leader: Dong Zhanfeng)
- ✓ Vulnerability Evaluation, Prevention and Control and Emergency Technology Research and Demonstration of Major Urban Environmental Incidents (Joint Lead Project leader: Cao Dong)

National High-tech R&D Program of China (863 Program)

- ✓ Research on Sustainable Policy Guarantee System of Polluted Soil and Site Risk Management (Joint Lead Project leader: Zhang Hongzhen)

Research \ Support for Promulgated National Planning

01 Ecological Environmental Protection Planning in the 13th Five-year Plan Period (No.65 Document of State Council, 2016)

02 The Action Plan for Prevention and Control of Soil Pollution (No.31 Document of State Council, 2016)

03 Several Opinions on Defining and Strictly Safeguarding the Ecological Protection Redline (Issued by General Office of the CPC Central Committee and General Office of the State Council)

04 Guiding Opinions about the Trial Work of Vertical Management Reform of Supervision, Monitoring and Law Enforcement of Environmental Agencies Under the Provincial Level (Issued by General Office of the CPC Central Committee and General Office of the State Council)

05 Healthy China 2030 Outline (Issued by General Office of the CPC Central Committee and General Office of the State Council)

06 Notice on Conducting the 2nd National Pollution Census (No.59 Document of State Council, 2016)

07 National Ecological Environmental Protection Planning Outline in the 13th Five-year Plan Period (No.151 Document of Nature and Ecology Conservation Department, MEP, 2016)

08 Technical Guidance for Compiling of Soil Pollution Prevention and Control Work Plan (No.1806 Document of Air Environmental Management Department, MEP, 2016)

09 Provisions on Implementation of Water Pollution Prevention and Control Action Plan (Trial) (No.179 Document of Water Environmental Management Department, MEP, 2016)

10 Notice on Conducting Dispatching the 13th Five-year Atmospheric Pollution Reduction (No.1966 Document of Air Environmental Management Department, MEP, 2016)

11 Intensified Measures of Atmospheric Pollution Prevention Control in Beijing- Tianjin-Hebei (2016-2017) (No.80 Document of Air Environmental Management Department, MEP, 2016)

12 Technology Guideline on Defining the Forbidden Zone of Livestock and Poultry Raising (No.99 Document of Water Environmental Management Department, MEP, 2016)

13 Technical Guidance for Environmental Risk Assessment of CO_2 Capture, Utilization and Storage (No. 64 Document of Science, Technology and Standards Department, MEP, 2016)

14 Handbook for Common Information of High Pollution and High Environmental Risk Products (Volume No.1) (No. 1239 Document of Policies, Laws and Regulations Department, MEP, 2016)

15 Notice on Implementing the Industrial Pollution Sources Plan of Overall Standardized Emission (No.172 Document of Environmental Monitoring Department, MEP, 2016)

16 Major Plan of Cultivating and Developing the Main Market Body of Agricultural Non-point Source Pollution Treatment, Rural Polluted Water and Waste Disposal(No.195 Document of Planning and Finance Department , MEP, 2016)

17 Opinions on Notice of Conducting Permission Management of Pollution Discharge from Thermal Power, Paper-making and High Structures at Trail Sites in Beijing-Tianjin-Hebei (No.1879 Document of Air Environmental Management Department, MEP, 2016)

18 Technical Guidance for Phased Assessment on Policy Implementation of Compensated Usage of Pollution Discharge Right at the National Level and at Trial Trading Sites (No.5 Document of Total Emission Control Department, MEP, 2016)

19 Notice on Conducting Environmental Protection Special Law Enforcement Supervision in Waste Incineration Industry (No.81 Document of Environmental Monitoring Department, MEP, 2016)

20 General Programme of Technical Guidance for Ecological Damage Assessment ((No.67 Document of Policies, Laws and Regulations Department, MEP, 2016)

21 Damage Survey of Technical Guidance for Ecological Damage Assessment ((No.67 Document of Policies, Laws and Regulations Department, MEP, 2016)

22 Measures for registering and reviewing of Environmental damage judicial appraisal institutions ((No.101 Document of Ministry of Justice, 2016)

23 Management Method on Experts for registering and reviewing of Environmental damage judicial appraisal institutions ((No.101 Document of Ministry of Justice, 2016)

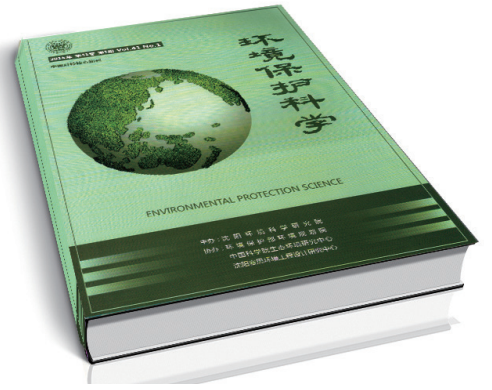
24 Evaluation Guide for Implementation of National Emission Standard (No.94 Document of Science, Technology and Standards Department, MEP, 2016)

25 The 13th Five-year Xinjiang Counterpart Assistance Plan under National Environmental System (No.103 Document of Planning and Finance Department, MEP, 2016)

26 Notice on Approval of Conducting the 5th Batch of Environmental Service Trail Work (No.1245 Document of Science, Technology and Standards Department, MEP, 2016)

Academic Periodicals

- Chinese Journal of Environmental Management ISSN 1674—6252.
- Environmental Protection Science ISSN 1004—6216.



Internal publications

- The Chinese Reference for Environmental Decision-making (in Chinese version) is the policy consultation report produced by CAEP based on the special theme research, targeting at major environmental issues, formulation of environment planning and policy. 18 issues were published in 2016.
- The Chinese Environmental Policy Research Working Paper (in English version) is an internal publication produced by CAEP for the purpose of facilitating the academic exchange with foreign colleagues on research results on environmental policies and lessons learnt in the implementation of such policies. 4 issues were published in 2016.

Achievements

Awards

- Technology and Application of Comprehensive Mangement and Control in National Environmental Zoning, Total Emissions and Environmental Quality won the second award of National Science and Technology Progress (National Level)
- Remote-sensing Survey and Evaluation of Ten-year National Ecological Environment Changes (2000-2010) won top award of Mapping Science and Technology Progress (Ministerial Level)
- Research on the Overall Process Optimization Management and Control Technology of Environmental Risks won the first award of Science and Technology of Ministry of Education (Ministerial Level)
- Key Simulation Technologies and Application of Coordinated Development Between Urbanization and Ecological Environment in City Clusters won the second award of Environmental Protection Science and Technology (Ministerial Level)
- Research and Business Application of Drink Water Source in Environment Quality Remote-sensing Technology System won the second award of Environmental Protection Science and Technology (Ministerial Level)
- Research on the Scaled System Integrated Technology of Battery Energy Storage and Application Technology of Gradient Battery for Clean Energy Power Absorption won the third award of Environmental Protection Science and Technology (Ministerial Level)


环境保护科学技术奖

获奖证书

获奖项目：城市群地区城镇化与生态环境协同发展仿真模拟关键技术及应用

获奖等级：二等

获奖单位：环境保护部环境规划院

（第二完成单位）

二〇一六年十二月

证书号：KJ2016-2-03-D02


国家科学技术进步奖

证 书

为表彰国家科学技术进步奖获得者，特颁发此证书。

项目名称：国家环境分区-排放总量-环境质量综合管控关键技术与应用

奖励等级：二等

获 奖 者：环境保护部环境规划院

2016年12月21日

证书号：2016-J-231-2-03-D01


环境保护科学技术奖

获奖证书

获奖项目：面向清洁能源电力消纳的电池储能规模化系统集成技术及梯次电池应用技术研究

获奖等级：三等

获奖单位：环境保护部环境规划院

（第二完成单位）

二〇一六年十二月

证书号：KJ2016-3-12-D02

Published Monographs

01 Research on Mid-long Term State Strategy of Water Environment Protection

02 Research on Investment and Financing Demand and Influence of China's Air Pollution Prevention and Treatment Plan

03 PM2.5 Pollution Control: China's Road Map and Policy Mechanism

04 Air Quality Oriented Total Emission Control of Air Pollutants: Framework and Methodologies

05 Research on Key Technologies and Application of Environmental Function Zoning

06 Research on the Key Technologies of Ecological Risk Prevention and Control during the Leapfrog Development of xinjiang

07 Research on the Indirect Economic Influence of Water Disasters in the Yangtze River Delta: Theory, Model and Evaluation

08 Technology Methods and Cases of Ground Water Pollution Prevention and Control in Typical Areas of North China Plain

09 Zoning Strategy of Songhua River Basin Protection

10 Technology and Application of Water Basin Pollution Prevention and Planning

11 Research and Practice of Planned environmental Evaluation Method for Ecological System Management

12 Environmental Damage Evaluation: System, Method and Case

13 Environmental Damage Assessment and Compensation

14 Evaluation Method and Case Study of the Absorption Capability of Farmland with Scaled Livestock and Poultry

15 Research on the Function of Industrial Waste Water Treatment, Investment and Operation Cost

16 Investigation and Assessment of Dense Non Aqueous Phase Liquid (DNAPL) Contaminated Sites

17 Technical Manual of Wastewater Treatment Cost Model

18 Chinese Environmental Planning and Policy Research (Volume No.12)

19 Progress on Environmental Economics (Volume No.10)

Patents and Software Copyrights / Patents

- A Device for Recovering the Polluted Karst Water and its Recover Method
- A Device for Sediment Dehydration at a High Rate
- A Device for Disposing Sediment with High Arsenal Pollution
- A Device for Rapid Dehydration of Sediment
- An Electric-repairing Device for Automatically Checking and Control of the PH Value of the Soil
- An Amphibian Device for Water Sampling both in the Earth and Underground
- A Pedrail-style Device for Soil and Underground Water Mining Equipment
- A Professional Mobile Comprehensive Drilling Device for Earth Repairing
- A Verification Method and Monitoring Device for Terrestrial Mammal and Birds
- Hydrochloric Ether Polluted Soil and Underground Water Zoning Repairing System
- A Rainwater Purification Device with Integrated Function of Water Collection and Penetration
- A Device for Pre-sampling Disposal of Online-monitored Water Quality at the Entrance of Polluted Water Treatment Factory
- A Total Volume Control System for Water Environment-based Major Water Pollutants Discharge

Patents and Software Copyrights / Software Copyrights

- Overall Environmental Plan Information Management and Application System
- Overall Environmental Plan Information Management and App System
- National Major Water Pollutants Emission Reduction, Checking, Accounting and Management Software V1.0
- Bio-diversity Automatic Monitoring Platform
- DEA-based High Pollutants, High Environmental Risks Products Screening Platform V1.0
- Environmental Economic Accounting and Application System V1.0
- Environmental Statistics and Emission Reduction Data Analysis and Application Platform V1.0
- Emergent Groundwater Pollution Relocation and Expansion Software V1.0
- Groundwater Pollution Damage Evaluation Software V1.0
- Enmergent Groundwater Pollution Relocation and Expansion Software V1.0

Articles

CAEP published 299 articles, among which 20 were chosen by SCI, 8 by EI and over 100 were chosen by Chinese core periodicals.

01 Wang Jinnan, Yu Fang, Ma Guoxia, et al. Revive China's green GDP programme [J] Nature, 2016, 534(7605):37-37.

02 Wang Jinnan, Hu Qing, Wang Xiahui, et al. Protecting China's soil by law [J] Science, 2016, 354(6312):562-562.

03 Lin Aijun, Pu Yuan, Qi Weikang, Li Xiaoliang, et al. China's partial emission control [J] Science, 2016, 351(6274):674-675.

04 Cai Bofeng, Wang Jinnan, He Jie, et al. Evaluating CO_2 emission performance in China s cement industry [J] Applied Energy, 2016, 166:191-200.

05 Cai Bofeng, Bo Xin, Zhang Lixiao, et al. Gearing carbon trading towards environmental co-benefits in China Measurement model and policy implications [J] Global Environmental Change, 2016, 39:275-284.

06 Niu Kunyu, Wu Jian, Yu Fang, et al. Construction and Operation Costs of Wastewater Treatment and Implications for the Paper Industry in China [J] Environmental Science & Technology, 2016, 50(22):12339-12347.

07 Ren Jing, Gao Bing-Bo, Fan Hai-Mei, Zhang Zhi-Hong, et al. Assessment of pollutant mean concentrations in the Yangtze estuary based on MSN theory [J] Marine Pollution Bulletin, 2016, 113(1-2):216-223.

08 Zhu Gaofeng, Li Xin, Zhang Kun, Ding Zhenyu, et al. Multi-model ensemble prediction of terrestrial evapotranspiration across north China using Bayesian model averaging [J] Hydrological Processes, 2016, 30(16):2861-2879.

09 Shengguo Xue, Jun Wang, Chuan Wu, Song Li, et al. Physiological response of Polygonum perfoliatum L. following exposure to elevated manganese concentrations [J] Environmental Science and Pollution Research, 2016, Online.

10 Meng Qingpeng, Zhang Jing, Zhang Zhaoyu, et al. Geochemistry of dissolved trace elements and heavy metals in the Dan River Drainage (China): distribution, sources, and water quality assessment [J] Environmental Science and Pollution Research, 2016, 23(8): 8091-8103.

11 Meng Qingpeng, Zhang Jing, Zhang Zhaoyu, et al. Influence of ore deposits on river sediment compositions in Dan River Drainage, China [J] Journal of Geochemical Exploration, 2015, 159: 8-19.

12 Ma Guoxia, Wang Jinnan, Yu Fang, et al. An assessment of the potential health benefits of realizing the goals for PM10 in the updated Chinese Ambient Air Quality Standard [J] Frontiers of Environmental Science & Engineering, 2016, 10(2): 288-298.

13 Wang Xuying, Zhang Bin. Modeling radiative effects of haze on summer-time convective precipitation over North China: a case study [J] Frontiers of Environmental Science & Engineering, 2016, 10(4):105-114.

14 Ma Guoxia, Wang Jinnan, Yu Fang, et al. Assessing the premature death due to ambient particulate matter in China's urban areas from 2004 to 2013 [J] Frontiers of Environmental Science & Engineering, 2016, 10(5): 07.

15 Meng Qingpeng, Zhang Jing, Feng Jicheng, et al. Geochemical speciation and risk assessment of metals in the river sediments from Dan River Drainage, China. [J] Environmental Engineering and Management Journal, 2016, 32(3): 221-237.

16 Wu Yueying, Wei Daming, Liu Yaling, et al. Analysis of total emissions reduction of livestock and poultry pollutants in China [J] Environmental Engineering and Management, 2016, 15(10): 2163-2169.

17 Zhu Mijia, Liu Ruiping, Chai Hankui, et al. Hazelnut shell activated carbon: a potential adsorbent material for the decontamination of uranium(VI) from aqueous solutions [J]Journal of Radioanalytical Nuclear Chemistry. 2016, 310(3): 1147-1154.

18 Meng Qingpeng, Zhang Wen, Zhang Jing, et al. Heavy mineral analysis to identify sediment provenance in the Dan River drainage, China [J] Geosciences Journal. 2016, 20(4): 449-462.

19 Qiu Lang, Dong Zhanfeng, Sun Huan, Li Hongxiang, et al. Emerging Pollutants – Part I: Occurrence, Fate and Transport [J] Water Environment Research, 2016, 88(10): 1855-1875.

20 Bai Hui, Dai Wenyan, Alkaline cleaning solution wastewater treatment via combined coagulation and supercritical water oxidation processes. [J] Oxidation Communications, 2016, 39(3A): 2722-2727.

Cooperation \ Academic Activities

▲ Inception Meeting for Atmospheric Special Projects Symposium of Research on Pollution Discharge Permit Management Policy and Supportive Technology

▲ 2016 Annual Academic Conference of Environmental Planning Commission

▲ Annual Academic Conference of Environmental Economics Branch

▲ Joint-meeting of Presidents from National Environmental Planning Academies(Institutes)

▲ Seminar on the 2nd National Pollution Source Census Programme

▲ International Academic Seminar on Cost-effect and Standard Evaluation of Air Pollution Control

International Exchanges

▲ Attending the 17th Global Conference on Environmental Taxation, Holland

▲ Technology Exchanges on Ecological Civilization and South–south Cooperation, Nairobi

▲ Conducting the Comprehensive Survey on Improving the Ecological Environment of Aral Sea, Uzbekistan

▲ Environmental Risk and Emergency Management Experts from Holland visited CAEP

▲ Experts from Ministry of Environmental Protection in North Rhine Westphalia visited CAEP

▲ Attending the IPCC Revision Meeting for Methodology Reports to Refine the 2006 IPCC Guidelines for National Greenhouse Gas Inventiories, Belarus

▲ Attending the Seminar on Green Ship and Harbor, USA

▲ Technology Exchanges on Water Pollution Prevention, Japan

▲ Exchange on Heavy Metal Pollution System Management Measures, France, Belgium

▲ Management Experience Exchanges on Pollution Discharge License, USA

Strategic Cooperation

▲ Signing the Strategic Cooperation Agreement on Mercury Pollution Prevention Control with Tongren Municipal People's Government

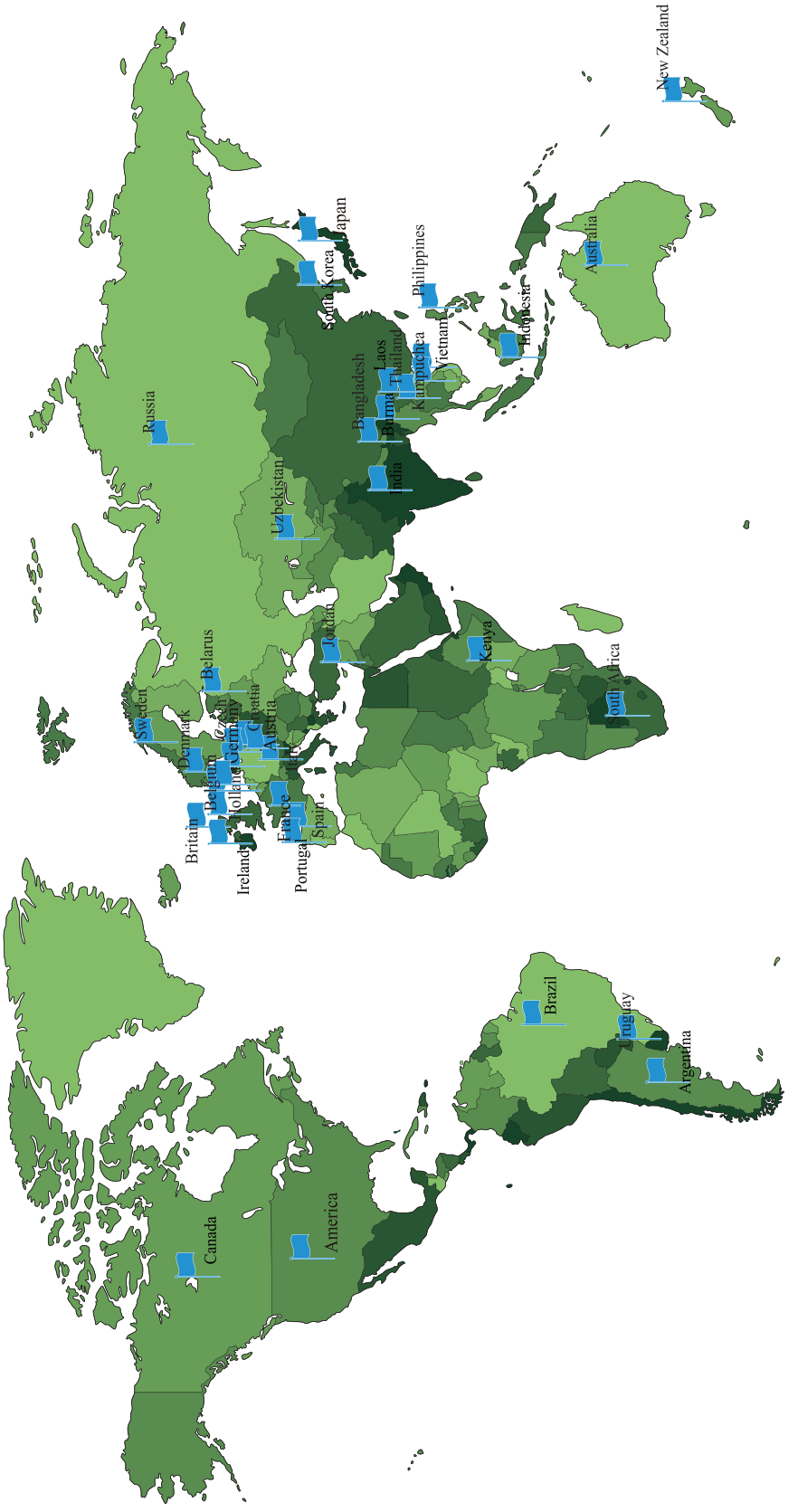
▲ Signing MOU on Jointly Promoting the Repairing Management Support, Technical Equipment and Functional Materials of Polluted Soil and Underground Water with VITO of Belgium

Social Responsibility

▲ Supporting the Impoverished Children at Longhua, the Poverty-stricken County of Hebei Province

Domestic Service

International Exchange and Cooperation



Chinese Academy of Environmental Planning

8 Dayangfang, BeiYuan Road, Chaoyang District, Beijing 100012, China
Tel: 86-10-84910863
Fax: 86-10-84918581
E-mail: caep@caep.org.cn
Web: http://www.caep.org.cn