

# IWM NAMA 垃圾低碳综合管理国际研讨会

## Low-carbon Integrated Waste Management Symposium

### 会议日程

#### Agenda

#### 会议日期 Date:

2020 年 9 月 6 日-8 日  
September 6-8, 2020

#### 会议地点 Location:

安徽省蚌埠富力万达嘉华酒店  
Wanda Realm, Bengbu, Anhui Province

#### 主办单位 Organized by:

德国国际合作机构 (GIZ)  
中国城市环境卫生协会 (CAUES)

#### 协办单位 Co-organized by:

蚌埠市住房和城乡建设局 (蚌埠市城市管理行政执法局)  
Bengbu Housing and Urban-Rural Construction Bureau (Bengbu Urban Management and Law Enforcement Bureau)  
中国欧盟商会 (European Chamber)

#### 支持单位 Supported by:

NAMA 基金会 (NAMA Facility)  
中国住房和城乡建设部 (MoHURD)

## 报到注册 Registration

**时间 Date** 9月6日  
Sept. 6

**地点 Location** 蚌埠富力万达嘉华酒店  
Wanda Realm Bengbu

## 主论坛 - 垃圾低碳综合管理 Main Forum - Low-carbon Integrated Waste Management

9月7日 Sept. 7	报告内容 Speech	演讲嘉宾 Speaker
09:00 - 09:40	<ul style="list-style-type: none"> <li>• 开幕式 Opening Address</li> <li>• 介绍背景及与会嘉宾 Background and Guest Introduction</li> <li>• 蚌埠市领导 致辞 Address by Municipal Officials of the city of Bengbu</li> <li>• 住房和城乡建设部 致辞（待定） Address by the Ministry of Housing and Urban-Rural Development (TBD)</li> <li>• 欧盟驻华代表团 致辞（待定） Address by the EU Delegation to China (TBD)</li> <li>• 德国大使馆 致辞（待定） Address by the Embassy of the Federal Republic of Germany (TBD)</li> <li>• 德国国际合作机构 致辞 Address by GIZ</li> </ul>	<p>主持人：刘晓 德国国际合作机构 Moderator: Ms. Liu Xiao, GIZ</p>
09:40 - 10:00	<p>主旨报告 Keynote 垃圾分类背景下中国城市生活垃圾综合管理及低碳发展 Integrated Waste Management and Low-carbon Development of China's Municipal Solid Waste Management (MSWM) in the Context of Waste Segregation</p>	<p>住房和城乡建设部/ 中国城市环境卫生协会（待定） Ministry of Housing and Urban-Rural Development (MoHURD)/China Association of Urban Environmental Sanitation (CAUES) (TBD)</p>

10:00 – 10:20	主旨报告 Keynote 欧盟新循环经济行动计划下垃圾管理展望 Prospects for Waste Management under the EU New Circular Economy Action Plan	欧盟驻华代表团（待定） EU Delegation to China (TBD)
10:20 – 10:40	主旨报告 Keynote 德国绿色经济复苏计划及垃圾管理展望 German Green Recovery Plan and an Outlook for the Waste Management Sector	德国大使馆（待定） Embassy of the Federal Republic of Germany (TBD)
10:40 – 11:10	合影、茶歇 Group Photo, Tea Break	
11:10 – 11:30	主旨报告 Keynote 蚌埠市城市生活垃圾管理现状及发展规划 Status Quo and Development Plans for MSWM in the City of Bengbu	蚌埠市住房和城乡建设局（蚌埠市城市管理行政执法局） Bengbu Housing and Urban-Rural Construction Bureau (Bengbu Urban Management and Law Enforcement Bureau)
11:30 – 11:50	主旨报告 Keynote 从垃圾管理到循环经济 - GIZ 中国行动实践 From Waste Management to a Circular Economy – GIZ's Action in China	德国国际合作机构 钱名宇 Mr. Qian Mingyu, GIZ
12:00 – 14:00	午餐 Lunch	

❖ 政策及发展趋势 Policies and Development Trends

14:00 – 14:30	报告 Lecture 生活垃圾管理政策与技术解读 Interpretation of Municipal Solid Waste management policy and technology development	陈冰 住建部环境卫生工程技术研究中心 副主任 Ms. Chen Bing, Deputy Director Environmental Sanitation Engineering & Technology Research Center, MoHURD
14:30 – 15:00	报告 Lecture 《进一步加强塑料污染治理的意见》解读 Interpretation of the "Opinions on Further Strengthening Control of Plastic Pollution"	赵凯 中国循环经济协会 副会长兼秘书长 Mr. Zhao Kai, Vice President and Secretary General, China Association of Circular Economy

15:00 – 15:30	<p>报告 Lecture 国际固废管理热点话题及发展趋势 International Development Trend in the Realm of MSWM</p>	Mr. Andy Whiteman, Wasteaware
15:30 – 16:00	茶歇 Tea Break	
❖ 全生命周期评价 Life Cycle Assessment (LCA)		
16:00 – 16:30	<p>报告 Lecture 城市生活垃圾管理全生命周期评级 - 丹麦 案例实践 Life Cycle Assessment (LCA) of MSWM – Danish Practice</p>	<p>Thomas H. Christensen 丹麦科技大学 Mr. Thomas H. Christensen, Technical University of Denmark</p>
16:30 – 17:00	<p>报告 Lecture 基于全生命周期评价的易腐有机垃圾处理技术评估体系 Evaluation of Perishable Waste Treatment Technologies based on Life Cycle Assessment (LCA)</p>	<p>刘建国 教授 清华大学环境学院 Prof. Liu Jianguo, School of Environment, Tsinghua University</p>
17:00 – 17:30	<p>报告 Lecture 城市生活垃圾管理全生命周期评价 - NAMA 示范城市案例实践 Life Cycle Assessment (LCA) of MSWM – Case-studies from the Demonstration Municipalities of the China IWM NSP</p>	<p>赵岩 副教授 北京师范大学 Prof. Zhao Yan, Beijing Normal University</p>
17:30 – 18:00	讨论 Discussion	

9月8日 Sept. 8 09:00-12:00	报告内容 Speech	演讲嘉宾 Speaker
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❖ 垃圾分类 Waste Segregation

09:00 – 09:30	报告 Lecture 垃圾分类的“五点一线”路径实践 The systematic practice and solutions on waste segregation	刘强 首席专家 中国光大国际有限公司 Mr. Liu Qiang, Chief expert Everbright International
09:30 – 10:00	报告 Lecture 垃圾分类背景下厨余垃圾收集及处理模式探讨 Discussion on the Collection and Treatment Mode of Kitchen Waste based on Waste Segregation at Source	任连海 教授 北京工商大学 Prof. Ren Lianhai Beijing Technology and Business University
10:00 – 10:30	报告 Lecture 垃圾分类背景下焚烧行业的机遇与挑战 Challenges and Opportunities for the Development of the Incineration Industry based on Waste Segregation at Source	张卫 总工程师 绿色动力环保集团股份有限公司 Mr. Zhang Wei, Chief Engineer Dynagreen Environmental Protection Group Co.,LTD
10:30 – 10:50	茶歇 Tea Break	

❖ 专题讨论：环境教育经验分享（主持人：侯靖岳）

Panel Discussion: Experience Sharing on Environmental Education (Moderator: Ms. Hou Jingyue)

10:50 – 11:10	课程培训作为环境教育的方式 Round 1: Course and Training as Teaching Method	万科基金会、自然之友、爱芬环保、生态环境部宣传教育中心（拟邀请） Panelists: Vanke Foundation, Friends of Nature, Aifen Environment, Center for Ministry of Ecology and Environment (TBD)
11:10 – 11:40	特定环境/活动以唤起公众意识 Round 2: Specific Environment/Activities Arousing Public Awareness	
11:40 – 12:00	现存的挑战与未来展望 Round 3: Current Challenges and Outlook	
12:00 – 14:00	午餐 Lunch	

## 分论坛 1 - 垃圾管理中的金融工具（在线） Sub-Forum I - Financial Instrument in MSW Management (online)

会议日期 Date:

2020 年 9 月 8 日 14:00-17:30  
14:00-17:30, September 8, 2020

主办单位 Organized by:

德国国际合作机构 (GIZ)  
中国城市环境卫生协会 (CAUES)

协办单位 Co-organized by:

adelphi 技术咨询集团公司

支持单位 Supported by:

NAMA 基金会 (NAMA Facility)  
中国住房和城乡建设部 (MoHURD)

**分论坛 1 - 垃圾管理中的金融工具（在线）**

**Sub-Forum I - Financial Instrument in MSW Management (online)**

<b>9月8日 Sept. 8 14:00-17:30</b>		
<b>分论坛 1 - 垃圾管理中的金融工具（在线） Sub-Forum 1 - Financial Instrument in MSW Management (online)</b>		
	<b>报告内容 Speech</b>	<b>演讲嘉宾 Speaker</b>
14:00 - 14:30	报告 Lecture 生产者责任延伸制下私营部门的财务责任体现 Financial Responsibilities of the Private Sector under Extended Producer Responsibility Systems	Mr. Sebastian Frisch, Blackforest Solutions
14:30 - 15:00	报告 Lecture 垃圾按量付费制度（PAYT） - 德国萨克森州经验 分享 Pay-As-You-Throw Systems - Lessons Learnt from Saxony, Germany	Mr. Jan Reichenbach, Intecus
15:00 - 15:30	报告 Lecture 亚投行城市战略，垃圾管理和循环经济 AIIB Urban Strategy, Waste Management and Circular Economy 垃圾焚烧项目的可融资性讨论 Bankability Issues in Waste to Energy Project	Ping Yean Cheah 高级战略官 Mr. Ping Yean Cheah, Senior Strategy Officer 袁宪龙 高级运营管理专家 亚洲基础设施投资银行 Mr. Edwin Yuen, Senior Private Sector Operations Specialist, Asian Infrastructure Investment Bank (AIIB)
15:30 - 16:00	茶歇 Tea Break	
16:00 - 16:20	报告 Lecture 柏林典型垃圾管理运营商（柏林环卫集团， BSR）财务及收费体系分析 Fees and Financing Systems in Berlin's Leading Waste Management Operator BSR	Friedrich Sonderhoff, 柏林环卫集团（BSR） Mr. Friedrich Sonderhoff, Berliner Stadtreinigung (BSR)
16:20 - 16:40	基于计算工具的垃圾管理费核算 - 巴西经验分 享 Tool-Based Waste Fee Calculations - Lessons Learnt from Brazil	Jan Janssen adelphi 技术咨询集团公司 Mr. Jan Janssen, adelphi
16:40 - 17:00	报告 Lecture 公私合营在生活垃圾焚烧行业的应用及发展 Public-Private Partnerships (PPPs) in Solid Waste Incineration Industry	詹亮，康恒环境 国际事业部副总经理 Mr. ZHAN Liang, SUS Environment
17:00-17:30	问答与讨论 Q&A, Discussion	全体专家 All specialists

## 分论坛 2 - 资源再生及回收行业发展模式探讨

### Sub-Forum II – Discussion on Development of the Resource Recovery and Recycling Industry with a Focus on Extended Producer Responsibility

会议日期 Date:

2020 年 9 月 8 日 14:00-17:30  
14:00-17:30, September 8, 2020

主办单位 Organized by:

德国国际合作机构 (GIZ)

支持单位 Supported by:

欧洲联盟 (EU)

德国联邦经济合作与发展部 (BMZ)



## 分论坛 2 - 资源再生及回收行业发展模式探讨

### Sub-Forum II – Discussion on Development of the Resource Recovery and Recycling Industry with a Focus on Extended Producer Responsibility

9月8日 Sept. 8 14:00-17:30		
分论坛 2 - 资源再生及回收行业发展模式探讨 Sub-Forum 2 – Discussion on the Development of the Resource Recovery and Recycling Industry with a Focus on Extended Producer Responsibility (EPR)		
	报告内容 Speech	演讲嘉宾 Speaker
14:00 – 14:05	开场词 Opening Speech Introduction to the Topic and Presentation of Speakers	周颖 欧盟“塑料再思考”项目中国区协调员 Moderator: Ms. Zhou Ying, National Coordinator, regional project “Rethinking Plastics – Circular Economy Solutions to Marine Litter”
❖ 欧洲经验分享 Experience from European countries		
14:05 – 14:25	欧盟包装废弃物治理法律框架介绍 Introduction of the EU's Legal Framework on Packaging Waste Management	欧盟驻华代表团（待定） EU Delegation to China (TBD)
14:25 – 14:45	包装废弃物的生产者责任延伸制度的概述与责任划分 Overview on Extended Producer Responsibility (EPR) for Packaging Waste and the Division of Responsibilities	Pascal Renaud 欧盟“塑料再思考”项目 国际专家 Mr. Pascal Renaud, Advisor, regional project “Rethinking Plastics – Circular Economy Solutions to Marine Litter”
14:45 – 15:05	比利时包装废弃物管理单一 PRO 模式经验分享 Example of EPR for packaging in Belgium with a Single Non-Profit Producer Responsibility Organization	Aurélia Leeuw 比利时 Fost Plus 机构 公共与法规事务经理 Ms. Aurélia Leeuw, Public & Regulatory Affairs Manager, Fost Plus, Belgium

15:05 – 15:25	德国包装废弃物多 PRO 模式的政策与实践 Experiences in Implementing EPR for Packaging Waste in Germany	待定 TBD
15:25 – 15:45	欧洲包装废弃物押金制经验分享 Experience in Establishing a Deposit Refund System for Packaging Waste in Europe	常新杰 陶朗分选技术有限公司 循环经济副总裁 Mr. Jet Chang, Tomra
15:45 – 16:00	茶歇 Tea Break	

❖ 中国经验分享 Experience from China

16:00 – 16:20	电子电器废弃物 EPR 经验分享 EPR for Waste Electrical and Electronic Equipment in China	管世翯 中国循环经济协会 副秘书长 Mr. Guan Shixuan, Vice Secretary General of China Association of Circular Economy
16:20 – 16:40	复合包装生产者责任延伸制度经验分享 Extended Producer Responsibility (EPR) for Composite Packaging in China	龙朝阳, 利乐大中华市场 可持续发展总监 Mr. Long Chaoyang, Sustainable Development Director of Tetra Pak China
16:40 – 17:00	快递包装废弃物管理机制创新 Voluntary Individual Producer Responsibility for Reusable Packaging in the Delivery Sector in China	段华波 深圳大学 副教授 Prof. Duan Huabo, Shenzhen University
17:00 – 17:30	问答与讨论 Q&A, Discussion	全体专家 All specialists

## 分论坛 3 - 农村绿色发展与废弃物管理 Sub-Forum III - Rural Green Development and Waste Management

会议日期 Date:

2020 年 9 月 8 日 14:00-17:30  
14:00-17:30, September 8, 2020

主办单位 Organized by:

德国国际合作机构 (GIZ)

支持单位 Supported by:

智康-格罗斯曼工程设计咨询有限责任公司  
GICON Grossmann Ingenieur Consult GmbH  
赢创特种化学 (上海) 有限公司  
Evonik Specialty Chemicals (Shanghai) Co., Ltd.  
德国冰得工程有限公司  
Binder Group AG

### 分论坛 3 - 农村绿色发展与废弃物管理

#### Sub-Forum III - Rural Green Development and Waste Management

9月8日 Sept. 8 14:00-17:30	分论坛 3 - 农村绿色发展与废弃物管理 Sub-Forum III - Rural Green Development and Waste Management	
	报告内容 Speech	演讲嘉宾 Speaker

#### ❖ 农村废弃物管理概述 Overview of the Rural Waste Management

14:00 - 14:20	农村废弃物管理现状与问题 Analysis of the Current Situation of Rural Solid Waste Management	胡宏祥 教授 安徽农业大学 Prof. Hu Hongxiang, Anhui Agricultural University
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#### ❖ 农村有机废弃物管理 Rural Organic Waste Management

14:20 - 14:40	农业废弃物处理技术路径比较 Comparison of Technical Approaches for Organic Waste Treatment	乔玮 教授 中国农业大学 Prof. Qiao Wei, China Agricultural University
14:40 - 15:00	蚌埠市怀远县农村废弃物收储运体系 Rural Solid Waste Collection, Storage and Transportation Mechanism in Huaiyuan County, Bengbu	董辉 副总经理 光大生物能源(怀远)有限公司 Mr. Dong Hui, Vice President, Everbright Environmental Energy (Huaiyuan) Limited
15:00 - 15:20	农业废弃物处理的运营模式 Operation Mode of Rural Waste Treatment	李剑 高级项目经理 北京西拓联合环境工程有限公司 Mr. Li Jian, Senior Project Manager, Beijing Xituolianhe Environmental Engineering Co., Ltd.
15:20 - 15:35	茶歇 Tea Break	

❖ 农村塑料废弃物管理 Rural Plastic Waste Management		
15:35 – 15:55	农田地膜残留污染现状与挑战 Current Situation and Challenge of Mulch Film Residue in Farmland	严昌荣 研究员 中国农科院可持续发展研究所 Mr. Yan Changrong, Director, Institute of Agricultural Environment and Sustainable Development, Chinese Academy of Agricultural Sciences (CAAS)
15:55 – 16:15	全生物降解材料的原理、分类与应用实例 The Principle, Categories and Application Scenarios of Biodegradable Mulch Film	石鑫 金发科技项目经理 Mr. Shi Xin, Project Manager, Kingfa Sci. & Tech. Co., Ltd.
16:15 – 16:35	全生物降解材料的市场化应用与前景 Market Application and Prospect of Biodegradable Raw Materials	安徽丰原生物新材料有限公司 Anhui Fengyuan Biological Material Co., Ltd.
❖ 国际经验: International Practice		
16:35 – 16:55	中德合作: GIZ 在农村发展领域中的行动 Sino-German Cooperation: GIZ's Action in Rural Development	侯靖岳 项目经理 德国国际合作机构 (GIZ) 中德生 物天然气先进技术战略联盟项目 Ms. Hou Jingyue, Project Manager, Sino-German Strategic Alliance for Advanced Biomethane Technology, GIZ
16:55 – 17:30	问答与讨论 Q&A, Discussion	全体专家 All specialists



## 中国城市生活垃圾领域国家适当减缓行动项目 China Integrated Waste Management NAMA Supported Project

中国城市生活垃圾领域国家适当减缓行动项目（IWM NAMA）是国家适当减缓行动基金会（NAMA 基金会）资助的国际合作项目，在中华人民共和国住房和城乡建设部的支持下，由德国国际合作机构（GIZ）与中国城市环境卫生协会（CAUES）共同执行。项目于 2017 年 9 月正式开始实施。IWM NAMA 项目旨在推动城市生活垃圾综合管理，促进减少中国城市生活垃圾处理领域的温室气体排放；此外，项目将助力中国城市生活垃圾管理行业转型，协助推动垃圾综合管理和垃圾资源化利用作为新的经济可持续的低碳投资领域。

Commissioned by the NAMA Facility and the Chinese Ministry of Housing and Urban-Rural Development (MoHURD), the China Integrated Waste Management NAMA Support Project (China IWM NSP) was initiated in September 2017 and implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH jointly with the Chinese Association of Urban Environmental Sanitation (CAUES).

The NSP NAMA Project aims to promote the integrated management of municipal solid waste in Chinese cities, contributing to the reduction of greenhouse gas emissions in China. In addition, the project intends to attract more private investments into the field of integrated waste management and its resource utilization, boosting sustainable development and low-carbon economy in China.

中华人民共和国住房和城乡建设部  
Ministry of Housing and Urban-Rural  
Development (MoHURD)





## 塑料再思考——循环经济应对海洋垃圾

### Rethinking Plastics – Circular Economy Solutions to Marine Litter

“塑料再思考——循环经济应对海洋垃圾”项目受欧洲联盟（EU）和德国联邦经济合作与发展部（BMZ）委托，联合中国、泰国、印度尼西亚、菲律宾、越南、日本和新加坡，旨在通过支持东亚、东南亚国家的塑料可持续生产与消费转型，为减少海洋垃圾作出重要贡献；同时致力于加强欧盟和相关地区国家在循环经济、减少塑料垃圾和海洋垃圾等领域的合作。项目执行时间为 2019 年 5 月至 2022 年 4 月。项目中国区执行机构为德国国际合作机构（GIZ），执行合作伙伴为中国循环经济协会（CACE）。

The “Rethinking Plastics – Circular Economy Solutions to Marine litter” project is co-funded by the European Union (EU) and German Federal Ministry for Economic Cooperation and Development (BMZ). The partner countries are China, Thailand, Indonesia, Philippines, Vietnam, Japan, Singapore. The project supports a transition towards sustainable consumption and production of plastic in East and Southeast Asia to contribute to a significant reduction of marine litter. It thereby contributes to strengthening EU cooperation with countries in the region in the areas of circular economy, plastic waste and marine litter reduction. The project will be implemented from May 2019 to April 2022 by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) with China Association of Circular Economy (CACE) as implementation partner in China.





## 中国沼气行业新未来

中国能源需求日益扩大，为实现国家气候目标，确保能源安全，清洁能源的重要性愈发凸显。

### 中德生物天然气先进技术战略联盟项目

#### Sino-German Strategic Alliance for Advanced Biomethane Technology

中德生物天然气先进技术战略联盟项目，受德国联邦经济合作与发展部（BMZ）和中国农业农村部（MoARA）委托，德国国际合作机构（GIZ）联合德国智康格罗斯曼工程设计咨询有限公司（GICON）、德国赢创特种化学（上海）有限公司（EVONIK）以及德国冰得集团（BINDER），于2018年6月正式开始实施。项目将基于最佳可行技术与最佳环境实践建成的可复制的生物天然气示范旗舰项目，各相关方将总结经验并提供相关的政策与标准建议，并通过以设计、施工、运营、监测为主题的能力建设活动，向行业分享项目成果，加强中德生物天然气领域的交流合作。

Commissioned by the develoPPP Programme funded by German Ministry for Economic Cooperation and Development (BMZ), supported by Ministry of Agriculture and Rural Affairs (MoARA), "Sino-German Strategic Alliance for Advanced Biomethane Technology" was jointly developed by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), and three private partners: GICON Großmann Ingenieur Consult GmbH, Evonik Specialty Chemicals (Shanghai) Co., Ltd. and Binder Engineering GmbH. Launched in June 2018, the project will promote the deployment of renewable energies with focus on biomethane in China.

Through the implementation of demonstration biogas plant and the establishment of the online monitoring system, the project will have a positive impact on the sectoral transformational change to a BAT model, which will improve the clean energy provision in rural areas of China. Policy and standard recommendation, capacity building activities and networking for the stakeholders in German and Chinese biogas sector provided by the project benefit further knowledge sharing and cooperation development.