

Activities in response to plastic waste by BCRC China

Qingyin Dong
Programme Officer

Basel Convention Regional Centre for Asia and the Pacific
Stockholm Convention Regional Centre for Capacity-building and the
Transfer of Technology in Asia and the Pacific

2021.11.11



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1. Basic Information of BCRC China

BCRC



*14 Basel Convention Regional and coordination Centres
4 in Asia and Pacific Region*

SCRC



*16 Stockholm Convention Regional Centres
5 in Asia and Pacific Region*

More than **28** countries in Asia-Pacific have received services.

- BCRC China is established in 1997. In May 2009, BCRC China has been endorsed as one of the 16 Stockholm Convention Regional Centres for Capacity building and the Transfer of Technology.
- At the joint COPs in 2015 and 2019, an overall performance assessment of 14 BCRCs and 16 SCRCs were conducted for the first and second time. BCRC China and SCRC-China each obtained the full scores (100%) and were assessed as “Excellent”. This performance result tied for first place of all the BCRCs and SCRCs.

1. Basic Information of BCRC China

Function

- Training , Information
- Awareness Raising, Consulting
- Technology Transfer

International

- To assist the convention implementation through all kinds of activities.

Regional

- Convention, management strategy and policy studies, technology transfer, information exchange networks, public awareness raising and capacity-building activities, and cooperation with UN agencies to assist countries in the region in implementing the Convention

National

- Technical support and convention implementation support for MEE China, carry out hazardous waste strategic research and training, and set up think-tanks .

1. Basic Information of BCRC China

No.	Project	Source	Places implemented	Level
1	Sino-Norwegian Cooperation Project on Capacity Building for Reducing Plastic and Microplastic Pollution (SINOPLAST)	Norwegian government	China	International
2	Capacity Building on Environmentally Sound Management of Single-use Plastic and its Waste in Asia-pacific Countries	SGP, BRS Secretariat	Cambodia, Myanmar, Sri Lanka	Regional
3	Flow Direction and Environmental Management of Plastic Waste in Asia-Pacific Countries	BRS Secretariat	Mongolia, Pakistan, Malaysia	Regional
4	Life Cycle Assessment of Plastic Products—Beijing Plastic Pollution Control Baseline Tracking	Beijing Development and Reform Commission	Beijing, China	National
5	The Technical Route of Single-use Plastic Pollution Prevention and Control	Beijing Development and Reform Commission	Beijing, China	National
6	Evaluation and Technical Services on Plastic Ban Action of Sanya in 2021	Bureau of Ecology and Environment	Sanya, China	National
7	Revision of “Technical Specifications for Pollution Control during Collection and Recycle of Waste Plastics of China”	Ministry of Ecology and Environment	China	National
			

2. International activities

Technical guidelines on the environmentally sound management of plastic wastes

(2002, DECIDING to update according to BC-14/13, Draft updated version of October 2021)

- **Leading country: China (Nana Zhao, Assistant Director of BCRC China), Japan, the United Kingdom of Great Britain and Northern Ireland**

The SIWG held its first online meeting from 14 to 18 December 2020.

1. Scope of the technical guidelines
2. Interpretation of the amendments to the Annex to the Basel Convention on plastic Waste
3. Definition of pollutants in plastic waste
4. The definition and scope of chemical recycling of plastic waste
5. Explanation for degradable plastics
6. Coordination with other technical guidelines

UNITED NATIONS **EP**

United Nations Environment Programme

Distr. GENERAL
UNEP/CHW.6/21
23 August 2002
ORIGINAL: ENGLISH

CONFERENCE OF THE PARTIES TO THE BASEL CONVENTION ON THE CONTROL OF TRANSBOUNDARY MOVEMENTS OF HAZARDOUS WASTES AND THEIR DISPOSAL

Sixth meeting
Geneva, 9-13 December 2002
Item 6 (e) (ii) of the provisional agenda†

CONSIDERATION OF THE IMPLEMENTATION OF THE BASEL CONVENTION

TECHNICAL MATTERS: PREPARATION OF TECHNICAL GUIDELINES

Technical guidelines for the identification and environmentally sound management of plastic wastes and for their disposal

Note by the secretariat

Day 5 - 18 December 2020: Technical guidelines on plastic wastes

Suggested order:

- G. Environmentally sound disposal (continues)
- H. Health and safety
- I. Emergency response
- J. Awareness and participation

Section IV
Annexes to IX
Annex X. Bibliography

Title
Abbreviations
Units of measurement
Other matters
• Swedish short presentation
Item 4(B). Next steps
• Deadline for comments - 15 Jan 2021

50:44

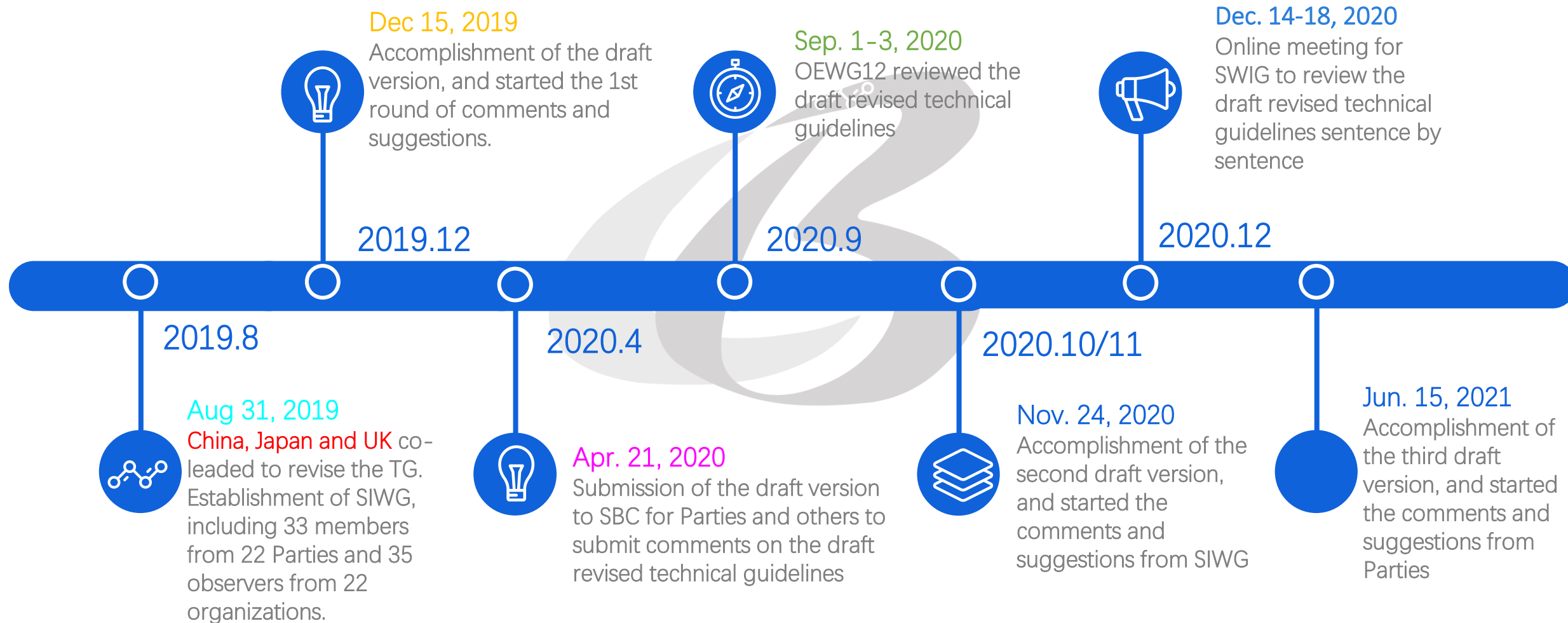
人员

- 演示者 (2)
 - CV Carla Valle-Klann 主持人
 - ML Melisa Tin Siong Lim
- 与会者 (7)
 - ZN Zhao Nana (宋茜)
 - DM Dave Messing
 - IR Ieva Rucevska
 - KF Keith Freegard
 - OS Osamu SAKAMOTO
 - PD Patrick McKell Deira (Guest)
 - SS Seika Sanno (Guest)

2. International activities

Technical guidelines on the environmentally sound management of plastic wastes

(2002, DECIDING to update according to BC-14/13, Draft updated version of October 2021)



2. International activities

Pj: Sino-Norwegian Cooperation Project on Capacity Building for Reducing Plastic and Microplastic Pollution (SINOPLAST)

Source: Norwegian government

Country of project implementation: China

Project duration: 2019.1~2022.12

Activities:

- 1) Baseline for litter, plastic waste and microplastics for China;
- 2) Environmental monitoring capacity of litter and microplastics;
- 3) Reduced amount of litter and plastics in selected catchments;
- 4) A management tool for plastic measures, transport and fate;
- 5) Cost-benefit and social impacts analysis carried out for a suite of identified measures;
- 6) Increased capacity and awareness on plastic waste and pollution in China.

2. International activities

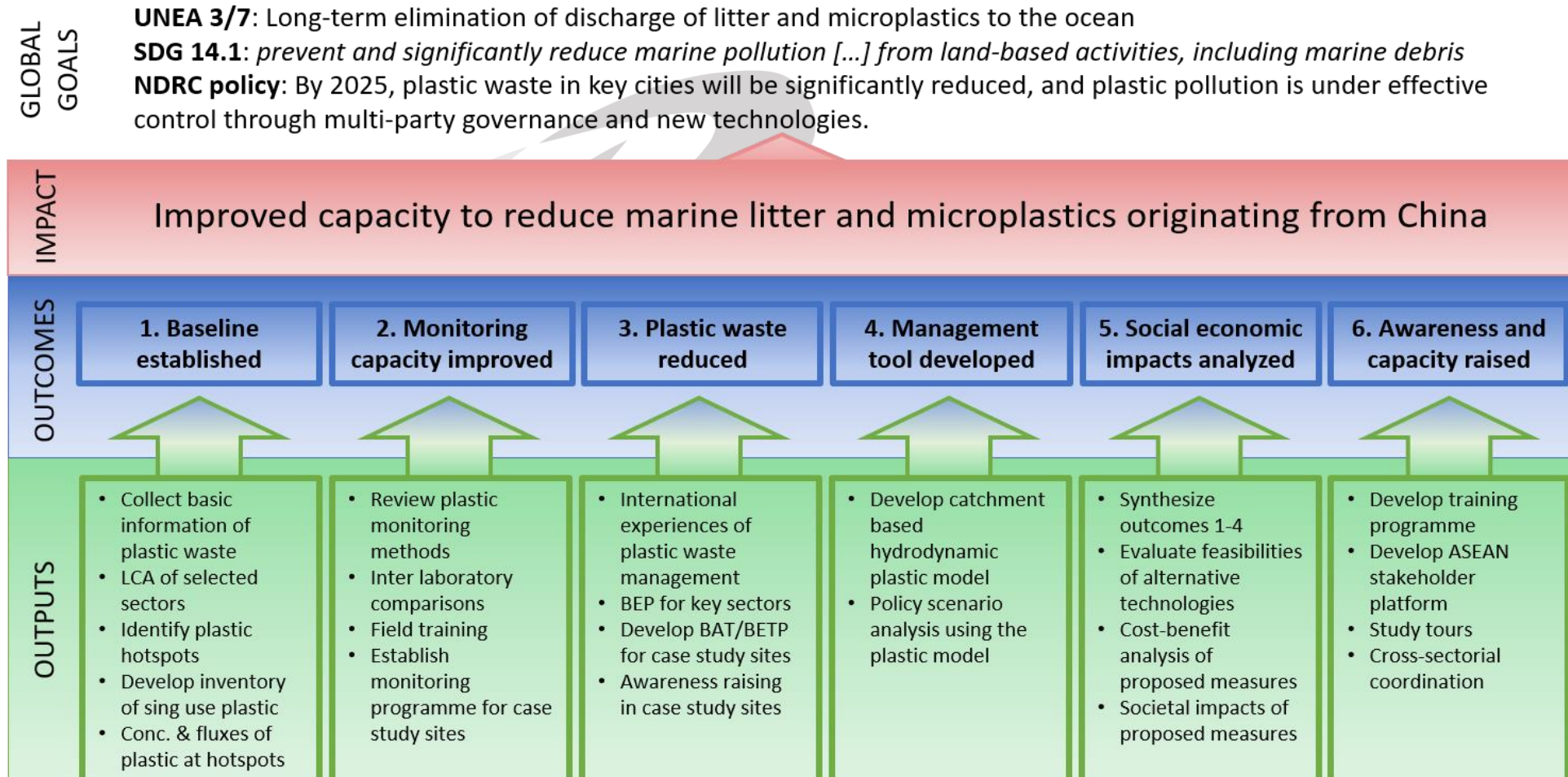
Pj: Sino-Norwegian Cooperation Project on Capacity Building for **Reducing Plastic and Microplastic Pollution (SINOPLAST)**

➤ Norwegian Ministry of Foreign Affairs

➤ Ministry of Commerce of China

Ministry of Ecology and Environment of China

• BCRC China, Tsinghua University (Implementing entity)



2. International activities



- Up until now, **12 reports** have been completed under the SINOPLAST project.
- ✓ Inter-laboratory calibration (ILC) on microplastic analysis
- ✓ Management and disposal of plastic products and waste
- ✓ Plastic abundance and flux in marine environment and rivers
- ✓ Feasibility study for demonstration cities
- ✓ Monitoring methods for plastics



- The SINOPLAST project has hosted or participated in:

- ✓ **10 meetings/conferences**
- ✓ **6 workshops**
- ✓ **5 fieldwork/lab-work**



3. Regional activities

Pj: Flow Direction and Environmental Management of Plastic Waste in Asia-Pacific Countries

Source: BRS Secretariat

Countries of project implementation: Mongolia, Pakistan, Malaysia


Project duration: 2019.6~2021.6

Activities:

- 1) Investigate the laws, regulations, and industrial standards related to plastic waste in selected countries; analyze the flow from selected countries and the flow of imports from abroad.
- 2) Clarify the main issues that need improvement in these countries from the aspects of policy formulation, industrial development, environmental impact and social impact.
- 3) Organize regional plastic waste management workshops to discuss and formulate regional plastic waste management project proposals.

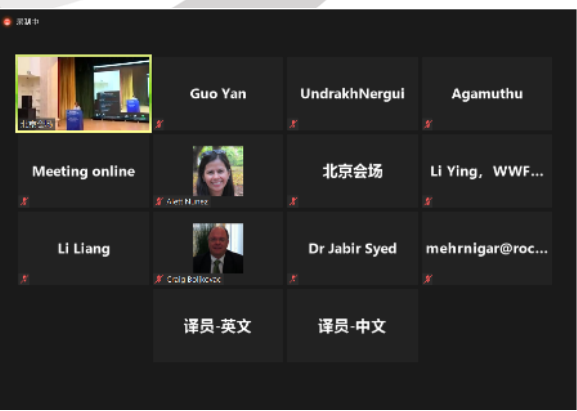
3. Regional activities

Pj: Flow Direction and Environmental Management of Plastic Waste in Asia-Pacific Countries

 <p>PLASTIC WASTE Overview of Mongolian Plastic Wastes</p> <p>Ulaanbaatar, Mongolia 2019</p>	<p>Table of Contents</p> <p>Executive Summary 2</p> <p>1. Introduction 4</p> <p>1.1 Objectives 4</p> <p>1.2 Scope and Methodology 5</p> <p>2. Plastic Value Chain 6</p> <p>3. Domestic Waste in Pakistan 8</p> <p>3.1 Impact of Plastic (including Plastic Scrap) 11</p> <p>4. Environmental Rules and Regulation in Pakistan 14</p> <p>4.1 Labeling and Packaging of Hazardous Material 15</p> <p>4.2 Waste Management Rules 16</p> <p>4.3 Plastic Bag Ban Law 16</p> <p>4.4 PFDEs Standards 17</p> <p>5. Situational Analysis 17</p> <p>5.1 Country Environmental Analysis 19</p> <p>5.2 Current Practices in Pakistan 22</p> <p>5.3 Negative Impacts of Plastic Waste 23</p> <p>6. Management Challenges 25</p> <p>7. Recommendations and Suggestions 26</p> <p>7.1 Improved Plastic Waste Management System 26</p> <p>7.2 Improve Environmental Monitoring and Planning Capacity 26</p> <p>7.3 Enhance Regulations for Improved Service Quality 27</p> <p>7.4 Improve Coordination Among Different Stakeholders 27</p> <p>7.5 Generating Future Investment 27</p> <p>7.6 Need resource efficient and green labelling 27</p> <p>7.7 Awareness of Issues 28</p> <p>8. Conclusion 29</p> <p>9. References 31</p> <p>Appendix I: List of Imported Products for The Selected Product (in Tons)</p> <p>Appendix II: Main use areas of c-PE/HDPE and c-PP/HDPE and some alternative flame retardants 36</p>	<p>Table of content:</p> <table border="1"> <thead> <tr> <th>Topic</th> <th>Page No</th> </tr> </thead> <tbody> <tr><td>Introduction</td><td>2</td></tr> <tr><td>Total MSW generated in Malaysia</td><td>3</td></tr> <tr><td>Type of plastics</td><td>4</td></tr> <tr><td>Malaysia standards of coding</td><td>7</td></tr> <tr><td>Law and regulations on waste management in Malaysia</td><td>8</td></tr> <tr><td>Law and regulations on plastic waste management in Malaysia</td><td>12</td></tr> <tr><td>Map of Regulatory Schemes and Agencies along the Plastics Industry's Value Chain</td><td>16</td></tr> <tr><td>Behavioral standards of plastic waste including the standards for PFDEs in Malaysia</td><td>17</td></tr> <tr><td>Data on plastic waste and analysis on the flow of both generated in Malaysia and imported from abroad</td><td>17</td></tr> <tr><td>Key data of Malaysian Plastics Industry</td><td>21</td></tr> <tr><td>Imported plastic waste in Malaysia (2013-2019)</td><td>22</td></tr> <tr><td>Imported plastic waste from top seven countries from year 2015-2019</td><td>33</td></tr> <tr><td>Imported plastic according to the type from year 2015-2019</td><td>24</td></tr> <tr><td>Data on plastic recycling in Malaysia</td><td>24</td></tr> <tr><td>Waste generation flow in Malaysia</td><td>27</td></tr> <tr><td>Plastic Waste flow in Malaysia</td><td>28</td></tr> <tr><td>Main issues that need to be improved in Malaysia on plastic waste management</td><td>29</td></tr> <tr><td>Malaysia road map towards zero single use plastic 2018-2020</td><td>32</td></tr> <tr><td>Law and policy on macroplastic management in Malaysia</td><td>33</td></tr> <tr><td>Other initiatives taken by government on NOD to reduce plastic and plastic recycling</td><td>41</td></tr> <tr><td>Pictures of improper plastic disposal in Malaysia</td><td>42</td></tr> <tr><td>References</td><td>44</td></tr> </tbody> </table>	Topic	Page No	Introduction	2	Total MSW generated in Malaysia	3	Type of plastics	4	Malaysia standards of coding	7	Law and regulations on waste management in Malaysia	8	Law and regulations on plastic waste management in Malaysia	12	Map of Regulatory Schemes and Agencies along the Plastics Industry's Value Chain	16	Behavioral standards of plastic waste including the standards for PFDEs in Malaysia	17	Data on plastic waste and analysis on the flow of both generated in Malaysia and imported from abroad	17	Key data of Malaysian Plastics Industry	21	Imported plastic waste in Malaysia (2013-2019)	22	Imported plastic waste from top seven countries from year 2015-2019	33	Imported plastic according to the type from year 2015-2019	24	Data on plastic recycling in Malaysia	24	Waste generation flow in Malaysia	27	Plastic Waste flow in Malaysia	28	Main issues that need to be improved in Malaysia on plastic waste management	29	Malaysia road map towards zero single use plastic 2018-2020	32	Law and policy on macroplastic management in Malaysia	33	Other initiatives taken by government on NOD to reduce plastic and plastic recycling	41	Pictures of improper plastic disposal in Malaysia	42	References	44
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Regional proposal on the management of single-use-plastic waste

- **Activity 1:** Establish Inventory and standards for single-use-plastic and its waste in Asia-Pacific countries
- **Activity 2:** Propose the policy options for single-use-plastic and its waste in Asia-Pacific countries
- **Activity 3:** Develop Regional strategy on single-use plastic and its waste



3. Regional activities

Pj: Capacity Building on Environmentally Sound Management of Single-use Plastic and its Waste in Asia-pacific Countries

Source: SGP, BRS Secretariat

Countries of project implementation: Cambodia, Myanmar, Sri Lanka

Project duration: 2021~2022

Objectives:

- 1) Establish inventory and standards for sing-use-plastic and its waste in Asia-pacific countries;
- 2) Propose the policy options for single-use-plastic and its waste in Asia-pacific countries;
- 3) Develop Regional strategy on single-use plastic and its waste.

4. National activities

Guidelines on further strengthening the treatment of plastic pollution

- ✓ Jointly issued by NDRC and MEE, then there are two supporting policies in April (by NDRC) and in July (by 9 ministries) 2020. Closely related to residents daily lives.

The following goals to be achieved by 2025:

- **Reduce** single-use plastics, and develop and use **substitutes**
- **Prohibit** production and consumption of thin plastic bags and mulch film in agricultural production
- Use environmentally **friendly packaging** in delivery and logistics services
- Through innovation, **improve functions** of plastics products and **reduce their costs**
- Set up **collection** stations for plastic waste in prioritized areas
- **Control** plastic pollution and **reduce** the amount of plastic waste in landfills

Aiming to solve the overuse of single-use thin plastic products and the mismanagement of plastic waste, which will significantly reduce the quantity of plastic waste into the waterbody and the marine.

4. National activities

Pj: The Technical Route of **Single-use Plastic Pollution Prevention and Control**



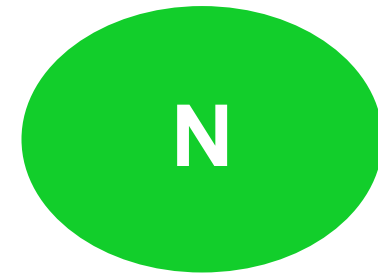
Regulation on MSW management in Beijing

- Plastic bags;
- Single-use tableware;
- MSW sorting;



Implementation plan based on the NDRC and MEE policy

- Localization measures;
- Leading action as capital city;
- Demonstration activities.



Specific measures by departments

- municipal commerce bureau;
- municipal bureau of agriculture and rural affairs;
- municipal bureau of culture and tourism, etc.

4. National activities

Pj: Revision of “Technical Specifications for Pollution Control of Waste Plastics”

Source: Ministry of Ecology and Environment of China

Activities:

- 1) investigate recycling and disposal situation of plastic waste in China;
- 2) revise the technical specifications adopted 2007, including generation, collection and transportation, pre-treatment, recycling, incineration, and co-processing, also with the environmental requirements for the enterprises.

名 称	关于征求《废塑料污染控制技术规范（征求意见稿）》等两项国家生态环境标准意见的函		
索引号	000014672/2021-00302	分 类	固体废物与化学品管理
发布机关	生态环境部办公厅	生成日期	2021-04-19
文 号	环办标征函〔2021〕11号	主题词	

关于征求《废塑料污染控制技术规范（征求意见稿）》等两项国家生态环境标准意见的函

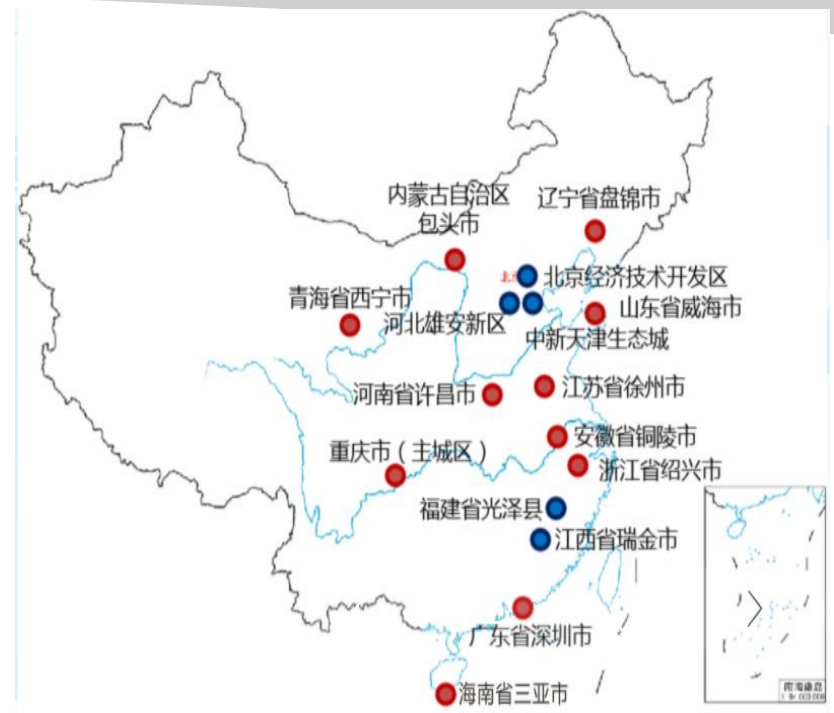
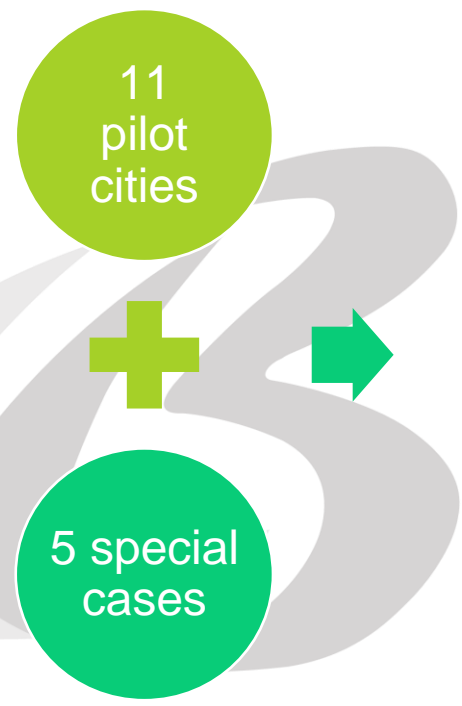
https://www.mee.gov.cn/xxgk2018/xxgk/xxgk06/202104/t20210419_829357.html

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4. National activities

"Zero waste city" is a new development concept featuring innovation, coordination, green, openness and sharing. By promoting the formation of **green development and lifestyle**, it continuously promotes the reduction of solid waste from sources, accelerates resource utilization, minimizes the amount of waste be landfilled and the environmental impact from waste.



BCRC China: 4/16, Sanyang development region, China. Plastic waste is one of management of cities.

Period	Number of cities
2019.1-2021.3	16 pilot cities
2021.1-2025.12:	~100 cities
2026-2030	~300 cities
2031-2035	all the country

5. Activities on going

Pj: Analysis of regulations on transboundary movement of plastic waste and their implementation in Asia

Source: BRS Secretariat

Countries of project implementation: China, Cambodia

Project duration: 2021.12-2023.12 (tbc)

Objectives: The project aims to provide understanding of the legal frameworks governing the transboundary movements (TBM) of plastic waste in South East Asia and the impact of the plastic waste amendments on such frameworks. It also seeks to identify good practices for implementing and enforcing such frameworks. The project aims to build capacity at the national level (China and Cambodia) and in the region on these topics that are central to implementation of the Basel Convention and the environmentally sound management of plastic waste.

5. Activities on going

Guidance Manual on Used and Waste EV Batteries — Case Studies in China

- with the support of the China Representative Office of UNEP

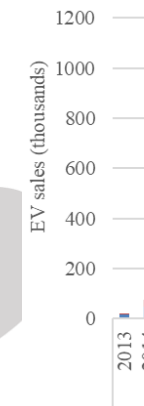
Chapter 1: *Overview of the EV industry*, introduces EV markets at the global, AP region and Chinese levels. It outlines policy measures to support relevant industrial development.

Chapter 2: *Overview of the EV battery industry*, provides an overview of production and sales of EV batteries in the at the global, AP region and Chinese levels., and outlines policy measures to support the development of the industry.

Chapter 3: *Overview of EV battery recycling*, introduces EV battery management systems and provides an overview of recycling, echelon use, and guidance for the EV battery recycling industry.

Chapter 4, Chapter 5, and Chapter 6: *Focus on Chinese case studies for used and waste batteries collection, echelon use, and recycling, respectively*. Chapter 4 introduces EV battery recycling policy, approaches to recycling and typical cases; Chapter 5 introduces EV battery echelon use policy standards, product applications and typical cases; Chapter 6 introduces recycling policies, technology, and typical cases.

Chapter 7: *Conclusion*, with an overview summarizing the key contents of each chapter and providing guidance.



Co-organized by:

- School of Environment, Tsinghua University
- Basel Convention Regional Center for Asia and the Pacific (BCRC China)
- Solid Waste Governance Research Center of Jiangsu Yancheng Environmental Protection Science and Technology City

The Symposium will invite the representatives from academic, business sector, associations and other stakeholders to talk about EV battery recycling and the linkages with carbon neutralization.

The EV battery recycling in some Asian countries and key information of the draft Guidance Manual on Used and Waste batteries - Case Studies in China, an output of the project on Sustainable Consumption and Production in partnership with UNEP China Office, will be shared during the event.

Construction requirements	Responsible body
Layout requirements	Automob manufact
	Echelon use manufact
Site requirements	Automob and echelon use manufact

The Symposium will be held as one of sub-forums of the "10TH China Yancheng Environmental Protection Industry Fair", which will take place in China from November 12th to 13th, 2021.

Join us, please click [HERE](#) to register.

Simultaneous interpretation in English and Chinese will be provided during the whole event.

For more information, please contact dongqingyin@tsinghua.edu.cn
 Registration link: https://forms.office.com/r/L_wxii_CiWq4

5. Activities on going

Carbon Peaking and Carbon Neutralization



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索引号: 000014349/2021-00098	主题分类: 城乡建设、环境保护\环境监测、保护与治理
发文机关: 国务院	成文日期: 2021年10月24日
标题: 国务院关于印发2030年前碳达峰行动方案的通知	发布日期: 2021年10月26日
发文字号: 国发〔2021〕23号	
主题词:	

国务院关于印发2030年前碳达峰行动方案的通知

国发〔2021〕23号

各省、自治区、直辖市人民政府，国务院各部委、各直属机构：

现将《2030年前碳达峰行动方案》印发给你们，请认真贯彻执行。

国务院

2021年10月24日

（本文有删减）

相关报道

• 国务院印发《2030年前碳达峰行动方案》

解读

• 2030年前碳达峰的总体部署——就《2030年前碳达峰行动方案》专访国家发展改革委负责人

3. 健全资源循环利用体系。完善废旧物资回收网络，推行“互联网+”回收模式，实现再生资源应收尽收。加强再生资源综合利用行业规范管理，促进产业集聚发展。高水平建设现代化“城市矿产”基地，推动再生资源规范化、规模化、清洁化利用。推进退役动力电池、光伏组件、风电机组叶片等新兴产业废物循环利用。促进汽车零部件、工程机械、文办设备等再制造产业高质量发展。加强资源再生产品和再制造产品推广应用。到2025年，废钢铁、废铜、废铝、废铅、废锌、废纸、废塑料、废橡胶、废玻璃等9种主要再生资源循环利用量达到4.5亿吨，到2030年达到5.1亿吨。

4. 大力推进生活垃圾减量化资源化。扎实推进生活垃圾分类，加快建立覆盖全社会的生活垃圾收运处置体系，全面实现分类投放、分类收集、分类运输、分类处理。加强塑料污染全链条治理，整治过度包装，推动生活垃圾源头减量。推进生活垃圾焚烧处理，降低填埋比例，探索适合我国厨余垃圾特性的资源化利用技术。推进污水资源化利用。到2025年，城市生活垃圾分类体系基本健全，生活垃圾资源化利用比例提升至60%左右。到2030年，城市生活垃圾分类实现全覆盖，生活垃圾资源化利用比例提升至65%。

- improve resources recycling system
- reduce and recycle municipal waste

THANK YOU

Basel Convention Regional Centre for Asia and the Pacific
Stockholm Convention Regional Centre for Capacity-building and the Transfer
of Technology in Asia and the Pacific

Address: School of Environment, Tsinghua University

Tel: +86 10 62794351; +86 10 62799061

Fax: +86 10 62772048

Website: <http://bcrc.tsinghua.edu.cn/>

Email: bccc@Tsinghua.edu.cn



WeChat Official Account



Website