





Activities in response to plastic waste and e-waste by BCRC China

Guoying Shi
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



UNEP BASEL CONVENTION STOCKHOLD CONVENTION

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Basic Information of BCRC China



14 Basel Convention Regional and Coordinating Centres Worldwide

17 Stockholm Convention Regional Centres Worldwide

South Africa

Indonesia

Basel Convention Regional Centre for the Asia and Pacific (BCRC China) was established in 1997, located in Beijing. In 2009, BCRC China had been endorsed as the Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology (SCRCAP China).

Basic Information of BCRC China

Core Functions

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

BCRC China



The work of the regional centres established under the is determined by the meetings of the Conference of the Parties to the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal(adopted on 22 March 1989 and entered into force on 5 May 1992).

SCRC China



Regional or subregional centres shall **provide capacity building and promote technology** transfer to assist developing country Parties and Parties with economies in transition in fulfilling their obligations under the Stockholm Convention.

The activities carried out by the centres shall follow the Guidelines on Technical Assistance and Transfer of Environmentally Sound Technologies, which are contained in the annex and appendix to decision SC-1/15 of the Conference of the Parties to the **Stockholm Convention on Persistent Organic Pollutants** (adopted on 22 May 2001 and entered into force on 17 May 2004).

Basic Information of BCRC China

The Stockholm Convention on Persistent Organic Pollutants (POPs) Network Award for the elimination of polychlorinated biphenyls (PCBs) in 2011



Contribution Award for the 4th Asia-Pacific Regional Meeting of the Strategic Approach to International Chemicals Management (SAICM)



Letter of thanks from the Secretariats of the three conventions



Li Jinhui was elected as Vice Chair of the Bureau of the Scientific and Policy Committee of the Open-ended Working Group (OEWG)



2011

2012

2014

2015

Received a

perfect score in

the 1st assessment

(<2013-2014>)

2023

Copper Award for the Strategic Approach to **International Chemicals** Management (SAICM)



Received a perfect score again in the 2nd assessment

2019

(<2015-2018>)

Received a perfect score in the 3rd assessment. The only regional center that received a perfect score in the assessment of both conventions (<2013-2014>, <2015-2018>, and <2019-2022>)

Project (SBC/UNEP)

Capacity building and awareness raising on ESM of e-waste under the Basel Convention (BRS-SSFA-2204)

March 2022-June 2023

Activity 1

Translation of materials related to the model workshops and compilation of documents

Activity 3

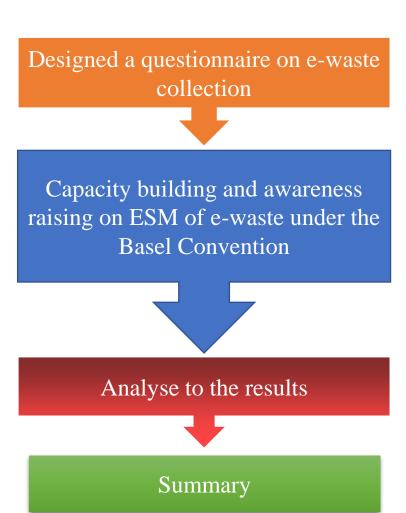
Testing of one PACE ESM guidelines and optimization of the whole process

Activity2

Awareness raising activities in conjunction with household waste separation training

Activity 4

E-waste regional workshop for national authorities in ewaste management sectors and recycling facilities in the Asia-Pacific region



□ Two activities

BCRC China partnered with **Huaxin Environmental Co., Ltd** to launch two awareness-raising activities and trainings on separating e-waste from household wasted in two communities.



- The first activity was held on 20th August, 2022 in Guofeng Meilun
 Community, Tongzhou District, Beijing, China.
- The second activity was held on 27th August, 2022 in Home Jisheng
 Community, Shunyi District, Beijing, China.



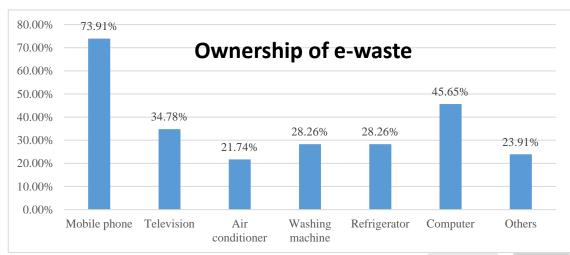


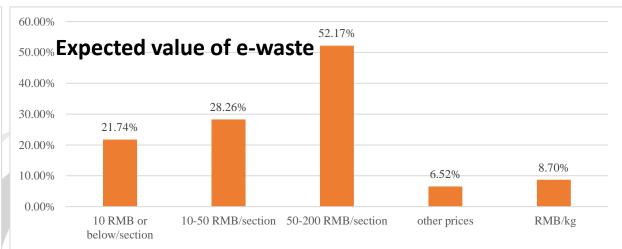


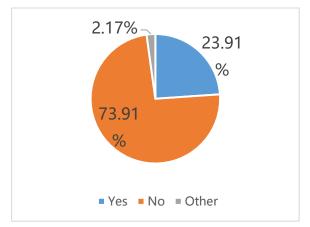




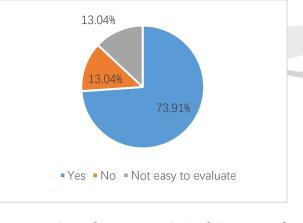
□ Questionnaire results



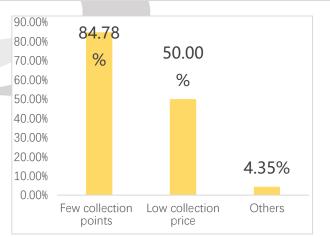




Willingness to buy repaired electronic products



Waste classification is helpful or not for e-waste collection



E-waste recycling has entered another new era with out subsidies. New situations impulse the producers to engage more.

Main problems faced by e-waste collection

Smart Video development

Partnered with



Close collect



Chapt I



Chapt II



A series of courses, including the *past and current E-waste situation*, a high residual value as well as *Environmental and health risks*, case study of waste mobile phone and how to recycling and ways to develop zero-waste technology innovation and makes them a comprehensive knowledge resource.

Chapt III



Chapt IV



Chapt V



Community and Students awareness raising

2021.7.9-2021.8.1, Each Weekend Night 16: 00 to 21: 00; Interesting science popularization in the Shopping Mall of Jingiao International Plaza





- 1. Public participation would be another channel for solving the e-waste collection dilemmas.
- 2. Awareness raising is still in need for communities, schools, etc. Due to lack of sufficient collection points, e-waste is not convenient for public to recycle. How to evaluate the real value is the main point.

Partnered with





Activity "Exploring the Scientific Journey of E-waste Recycling" in Pudong, Shanghai, Aug. 2022

Activity "Second life and Recycling of E-waste" in Jinqiao International Plaza in Pudong, Shanghai, Sep. 2022



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

Project founder: BRS/UNEP

Project period: February 2021 - March 2023

Implemented by **BCRC-SCRC China** in cooperation with 3 Asia-pacific countries.

Objectives

- Improve capacities of participating countries for the environmentally sound management of SUP and its waste, with sharing of lessons learned for all Asia-pacific countries;
- Prevent & minimize the generation and adverse impact of single-use plastic waste.



Key Outputs

- 1. Inventory and standards for single-use-plastic and its waste in participating countries;
- 2. Policy options for single-use-plastic and its waste in participating countries;
- 3. Regional strategy on single-use plastic and its waste in Asia-pacific region

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

01

Output1: Inventory and standards for single-use-plastic and its waste in participating countries;

- 1.Inventory of SUPs in partner countries(List of Restricted Single-use-plastics in Partner Countries)
- **2.**Public satisfaction survey on current policy (including Basic information of the respondent; Understanding of single-use-plastics and its impact; Knowledge and satisfaction with single-use plastic bans
- **3.**A few challenges were identified based on the collected LCA data

02

Output2:Policy options for singleuse-plastic and its waste in participating countries;

- 1.Typical management measures of SUPs(Ban on specific SUP items, Promoting substitutes, Placing a mandatory fee, Introducing specifications, Extended producer responsibility (EPR)
- 2.Current status of SUPs in the Asia-pacific region(Production, Collection, Recycling, Disposal)

03

Output3:Regional strategy on single-use plastic and its waste in Asia-pacific region

- 1.Production: improve quality control, boost recycling
- 2.Consumption: reduce the volume of single-use plastics
- 3. Waste management and final disposal: separate and collect plastic waste for ESM
- 4.Recycling: keep plastics in the economy

Project title: Analysis of the Regulations on the Transboundary Movement of Plastic Waste in Asia and Their Implementation under the Basel Convention

Project founder: BRS/UNEP

Project period: April 2022 - June 2023

Key partners: Hazardous Substances Management Department, Ministry of Environment, Cambodia

Objectives

- providing understanding of the legal frameworks governing the transboundary movements (TBM) of plastic waste in Southeast Asia and the impact of the Plastic Waste Amendments on suchframeworks. It also seeks to identify good practices for implementing and enforcing suchframeworks.
- assisting the Ministry of Environment of Cambodia inanalysing the impacts of the 'Plastic Waste Amendments' on the plastic waste recyclingindustry in Cambodia, and at identifying the changes needed to improve environmentallysound recycling and implementation of these amendments.
- building capacity at the national level (China and Cambodia) and in the region on these topics, which are central to the implementation of the Basel Conventionand to the environmentally sound management of plastic waste.

Project title: Analysis of the Regulations on the Transboundary Movement of Plastic Waste in Asia and Their Implementation under the Basel Convention

01

Activity1: Evaluate the legal framework for the cross-border transfer of plastic waste and its implementation in Cambodia and China.

BCRC China and Ministry of Environment of Cambodia have each assessed their legal frameworks on the TBM of plastic waste management, analyzed the effectiveness of TBM regulations for plastic waste in China and Cambodia, and identified gaps in implementation and enforcement.

Suggestions have been made on elements that can be coordinated among countries in the Asian region. Good practices for effective implementation and enforcement of plastic waste TBM regulations were identified and case studies were conducted.

02

Activity2:Evaluate the impact of the plastic waste amendment on the cross-border movement and recycling industry of plastic waste in Cambodia.

Ministry of Environment of Cambodia compiled and analysed the information on plastic waste import & export and practices for monitoring shipments of plastic waste, assessed the infrastructure and capacity for environmentally sound management of plastic waste management to determine the impact of the plastic waste amendments on TBM of plastic waste and on the recycling industry in Cambodia.

03

Activity3:Carry out capacity building activities to promote the effective implementation of TBM regulations and amendments to plastic waste in Asia.

BCRC China and Ministry of Environment of Cambodia developed 4 training courses on the TBM of plastic waste, national stakeholder consultation in China and Cambodia and a regional workshop on the TBM of plastic waste for the Asia-Pacific region to strengthen capacity building, promoting effective implementation of regulations on TBM of plastic waste and the plastic waste amendments in Asia.

Outputs:

	Materials List					
1		Assessment of the legal framework on the TBM of plastic waste management in China.				
2		Assessment of legal framework on the TBM of plastic waste in Cambodia.				
3	Report	Effectiveness of regulations on the TBM of plastic waste and gaps in implementation and enforcement, on recommendations on elements that could be harmonized among countries in the Asian region to promote effective implementation and enforcement of regulations on TBM of plastic waste.				
4		Good practices for effective implementation and enforcement of regulations on TBM of plastic waste and case studies.				
5		Compilation and analysis of information in Cambodia before and after January 2021 and documentation of measures in place and practices for monitoring and controlling the shipments of plastic waste.				
6		Assessment of the infrastructure and capacity for ESM of plastic waste management in Cambodia and recommendations improvement				
7		The national stakeholder Meeting on Plastic Waste Import and Export in China				
8	Maritan	The national stakeholder Meeting on Plastic Waste Import and Export in Cambodia				
9	Meetings	The workshop on implementation of the plastic waste amendments and workshop materials				
10		Assessment of the legal framework on TBM of plastic waste in China				
11	Training Modules	Collection of information on legal and illegal TBM of plastic waste				
12		Good practices in implementation of TBM Regulations for plastic waste in China and Cambodia				
13		Good practices in enforcement of TBM Regulations for plastic waste in China and Cambodia				

Key findings and conclusions

- ◆ The transboundary movement of plastic wastes involves multiple countries and multiple actors, and may increase the complexity of transboundary movement due to different plastic waste management systems, standards for recycling plastics, and monitoring and verification procedures for plastic wastes in various countries, hindering the implementation and enforcement of regulations.
- ◆ The lack of sound regulatory mechanisms, waste management resources, technical and sustainable financial deficiencies also affect the effectiveness of the regulations.
- ♦ the impact of the waste import ban and the plastic waste amendment on plastic waste trade in China is obvious, and the plastic waste trade in the entire Asia-Pacific region has been significantly reduced. Underdeveloped countries in the Asia-Pacific region has limited plastic waste treatment technology, their export competitiveness is weak.

Project title: Testing of inventory guidance of plastic waste and testing of technical guidelines on the ESM of plastic

waste

Project founder: BRS/UNEP

Project period: December 2023 - June 2024

Objectives

- Establishment of a national consultative working group and the organisation of a project inception workshop.
- ◆ Pilot testing of the practical guidance on developing inventories of plastic waste, in the two target countries of Mongolia and the State of Palestine.
- ◆ Pilot testing of selected sections of the technical guidelines on the environmentally sound management of plastic waste the version prepared for the Conference of the Parties to the Basel Convention at its sixteenth meeting in 2023 of plastic waste in the target countries: Evaluate the status of management of plastic waste on the basis of the information and recommendations contained in the selected parts of the guidelines; Provide feedback on the usefulness and completeness of the tested parts of the document.
- Organisation of a final project meeting to gather feedback from national authorities and stakeholders, on the outputs of the pilot testing of the practical guidance on developing inventories and of the technical guidelines on the environmentally sound management of plastic waste..

Activity

01

Activity1 :Project Initiation

Establish national consultative working groups;
Organise inception workshop

02

Activity2:Pilot testing of the guidance on inventory on plastic waste.

1.Organise training for a national inventory team on the application of methodologies in collaboration with SBC/UNEP;

- 2. Estimation of plastic products put on the market (consumption) based on import/export and production statistics;
- 3. Calculation of plastic waste generated based on the age of products (lifespan) and the probability of such products becoming waste;
- 4.Data collection for assessing the flow of plastics in the waste management system and leakages to the environment, including on the TBM of plastic waste;
- 5.Prepare report on the inventory of plastic waste for each target country;
- 6.Prepare case study on the inventory of plastic waste for each targe country.

03

Activity3:Testing the technical guidelines on the ESM of plastic waste.

04

Activity4 :Feedback and report

- 1.Testing and evaluating existing policy, legal framework and strategy;
- 2. Testing and evaluating the part of the technical guidelines on "waste prevention and minimisation";
- 3. Testing and evaluating parts of technical guideline aimed for the ESM of plastic waste;
- 4. Prepare report on the testing of the technical guidelines for each target country;
- 5. Prepare case study on the testing of the technical guidelines for each targe country.

1.Organise a final project validation meeting to gather feedback from national authorities and stakeholders on the outputs of activities 2.1.2 and 2.1.3 above;

2.Prepare feedback and report.

Progress of work

Activities	Deliverables by BCRC China	Deliverables by CCRC of Mongolia	Delivery dates				
Activity 1 - Project Initiation.							
Establish national consultative working groups	Establishment of national consultative working group for each country		November2023				
Organise inception workshop	Reports from workshop Date: 16:00-18:00 February 27, 2024 (Beijing Time, GM)	November2023					
Activity 2 - Pilot testing of the guidance on inventory on plastic waste.							
Organise training for a national inventory team on the application of methodologies in collaboration with SBC/UNEP.	Training of national inventory team is organised Date: 9:00-11:00 AM, April 16, 2024 (CET, GMT+2) /15 GMT+8)	November 2023					
Estimation of plastic products put on the market (consumption) based on import/export and production statistics.	Draft Report for Estimation of Plastic Products Put on the Market (Consumption) Based On Import/Export and Production in Hainan, China	TBC	April 2024				
Calculation of plastic waste generated based on the age of products (lifespan) and the probability of such products becoming waste.	Draft Report for Calculation of plastic waste generated based on the age of products (lifespan) and the probability of such products becoming waste in Hainan, China.	TBC	April 2024				
Data collection for assessing the flow of plastics in the waste management system and leakages to the environment, including on the transboundary movements (TBM) of plastic waste.	Ongoing	Ongoing	April 2024				

Progress of work

Activities	Deliverables by BCRC China	Deliverables by CCRC of Mongolia	Delivery dates			
Prepare report on the inventory of plastic waste for each target country.	Ongoing	Ongoing	July 2024			
Prepare case study on the inventory of plastic waste for each target country.	Ongoing	Ongoing	July 2024			
Activity 3 - Testing the technical guidelines on the ESM of plastic waste.						
Testing and evaluating existing policy, legal framework and strategy.	Testing and evaluating existing policy, legal framework and strategy in Hainan, China. (In Chinese)	TBC	July 2024			
Testing and evaluating the part of the technical guidelines on "waste prevention and minimisation".	Testing and evaluating the part of the technical guidelines on "waste prevention and minimisation" in Hainan, China. (In Chinese)	TBC	July 2024			
Testing and evaluating parts of technical guideline aimed for the ESM of plastic waste.	Ongoing	Ongoing	August 2024			
Prepare report on the testing of the technical guidelines for each target country.	Ongoing	Ongoing	September 2024			
Prepare case study on the testing of the technical guidelines for each targe country.	Ongoing	Ongoing	September 2024			
Activity 4 - Feedback and report						
Organise a final project validation meeting to gather feedback from national authorities and stakeholders on the outputs of activities 2.1.2 and 2.1.3 above	Ongoing	Ongoing	November 2024			
Prepare feedback and report	Ongoing	Ongoing	November 2024			

Project title: SINOPLAST capacity building for reducing plastic and microplastic pollution

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

Countries: China

Timeframe: 45 months (from 10/2019 to 06/2023)

Budget: US\$2,384,200 (Norway)



- Project title: : Sino-Norwegian cooperation project on capacity building for reducing plastic and microplastic pollution (SINOPLAST) II
- Countries: China, Norwegian
- Timeframe: 3 years and 8 months

Establish whole life-cycle framework of plastics for policy makers

Improved capacity for integrated land-ocean management of plastic

Improved knowledge of plastics from a global perspective

Awareness raising, training, mutual learning and dissemination

- Identify life cycle of selected plastic products, and develop a toolkit to
- quantifiy plastic materials flows in whole life cycle.

 Exchange of international experience
- in life cycle management of plastic for selected polymers.

 Develop policies options for recycled plastics from the perspective of

circular economy

- Field training
- Establish monitoring programme for selected case study sites.
- Further develop the catchment plastic management tool to integrate the plastic waste streams from land to ocean.
- Assess the reduction potential of plastic waste from land to ocean based on the plasticrelated policies for selected catchments.
- Develop the standard on microplastic detection

- Study on the interaction of Chinese plastic policies with relevant multilateral environmental agreements
- Exchange on European experiences of plastic related policy development and implementation
- Study on the potential impacts of plastic policies on the carbon emission policies

- Contribute to international conferences on plastic and marine debris
- Organize study tours to Norway and EU
- Improve participation of various stakeholders
- Share experience on sciencepolicy communication in the form of policy briefing to policy makers





Thanks for your attention

Basel Convention Asia Pacific Regional Center

Stockholm Convention on Persistent Organic Pollutants Asia Pacific Centre for Capacity Building and Technology Transfer

Address: Tsinghua University Sino Italian Environmental Energy Conservation

Building

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