

Development of Educational Material for Promoting 4R in Primary Education in Bhutan

Background, objectives, and workshop outline

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CCET

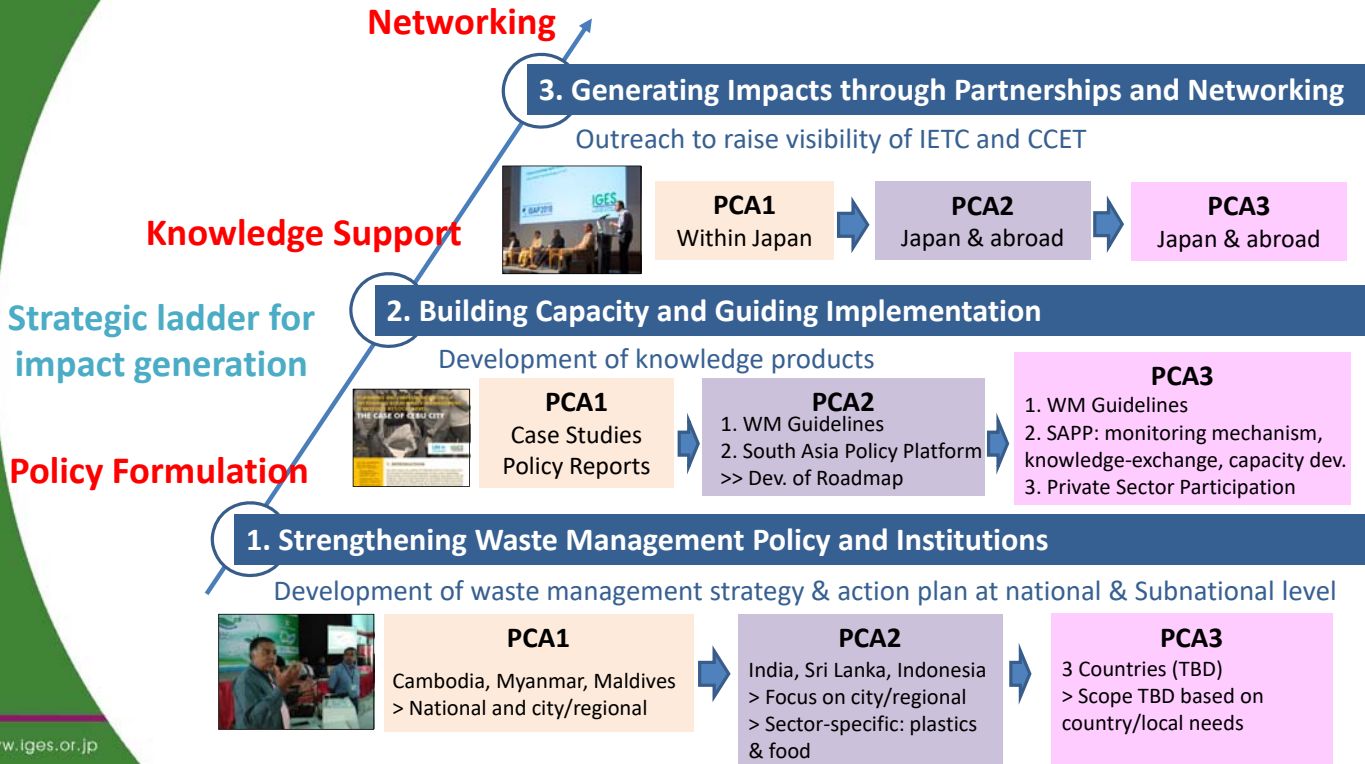
The IGES Centre Collaborating with UNEP on Environmental Technologies



- Established in 2014 as a **collaboration center to UNEP**
- Aim: assisting national, regional and local governments in developing sound **waste management** systems, and enabling the transition to resource efficient and sustainable societies.



CCET's Joint Project Activities



Highlight of Generated Impacts

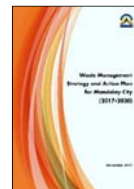
Developed Strategies paving the way for on-the-ground implementation

National Strategy of Myanmar submitted to State Counselor. Aung San Suu Kyi, attracting strong political commitment



The draft national strategy was handed over to H.E. Suu Kyi timed with the visit by the UNEP ED Erik Solheim.

Mandalay Strategy opened up a path for JCM project formulation

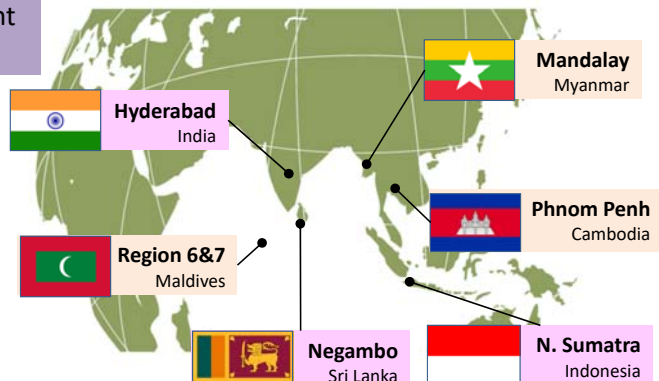


JCM projects are increasingly formulated as the city strategy officialised as guiding document for improving waste management of Mandalay.

Mandalay Strategy attract development financing for implementation



Harmonization of development assistance in progress as ADB joined Mandalay City Development Committee and CCET to finance infrastructure development, while CCET provide support from "soft approach".



Plan of Strategic Impact Generation

2. Building Capacity and Guiding Implementation

Development of knowledge products for waste management professionals

Assisting policy planning through publication of data and recommendations



- Participatory Approach
- Cebu & Surabaya
- Mitigation
- Battambang
- Waste Mgt to Resource Mgt
- Oki Machi

Assisting policy planning & implementation through Waste Management Guidelines



- Composting
- Anaerobic Digestion Systems
- Source segregation
- Mechanical Biological Treatment
- Incineration
- Semi-aerobic Landfill management

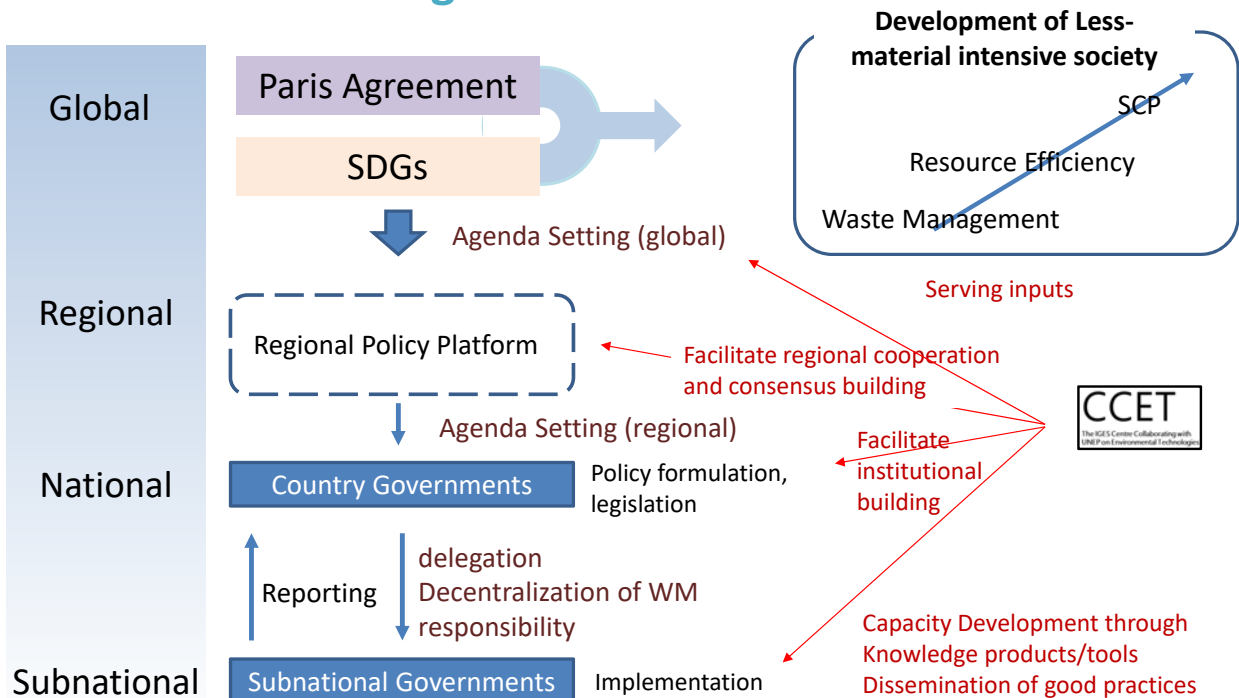
Facilitating political discussion and implementation through at regional level



South Asia Sub-regional Policy Platform for achieving SDGs



Strategic Context and Role of CCET



Environmental Education Project in Phnom Penh, Cambodia



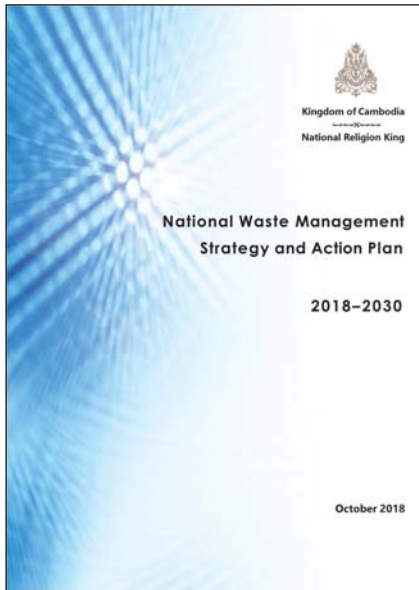
Since 2015



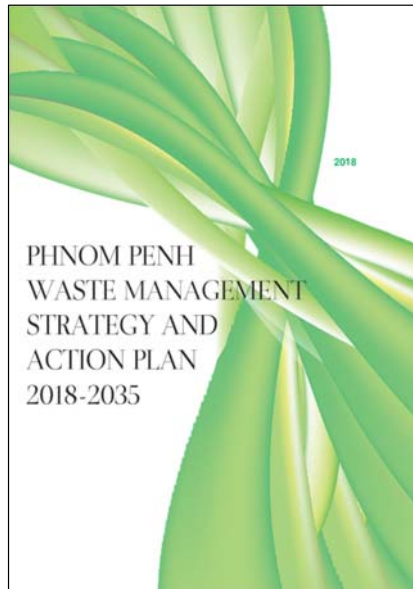
Ministry of Environment, Cambodia



Phnom Penh Capital Administration



Awaiting final approval



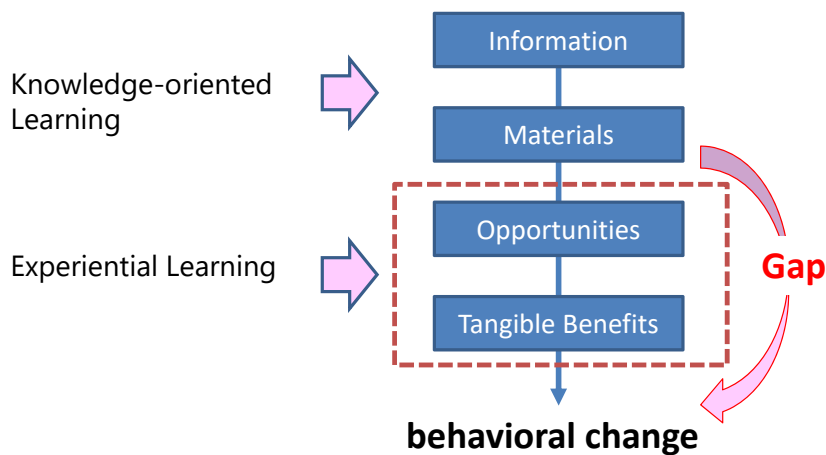
Approved August 2018



Action Area 5 Engaging Stakeholders

Action 5.2: Educating Youth through Environmental Education

Challenge of inducing Behavioral Change



Active-Learning Approach

Experiential Learning Participatory Waste Management Activities

Waste Audit Source Segregation Composting

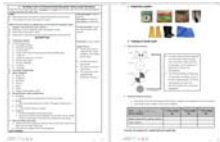


Classroom Lecture



Combining WM improvement and Env. Edu.

Teachers' Guide on Waste
Audit, Source Segregation,
and Composting



Ecology Note
Supplementary
material for Env. Edu.



NEC-CCET Joint Project on Environmental Education

Collaboration between NEC and CCET

March 2019	Initial Contact @ Dhaka
May 2019	Scoping mission and bilateral meeting Joint project confirmed
September 2019	Consultative Workshop
October 2019	Development of Draft
November 2019	Translation into Dzongkha
December 2019	Finalization and dissemination



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Environmental Technologies

Development of Supplementary Tool for Environmental Education

- ❑ Target: primary school students, monastic institutions...etc.
- ❑ Nation-wide implementation
- ❑ Complement Env. Science
- ❑ Youth Action for 4Rs
- ❑ National Waste Management Strategy

Workshop Objectives

1. Share the current state of and policy responses to the **present waste management challenges** in Bhutan, and thereby establish a common understanding on the rationale for promoting E.E. from the perspective of waste management.
2. Establish a common understanding on the current **policy framework and state of E.E.** in primary education in Bhutan, both curricular and non-curricular activities.
3. Share **an exploratory case of E.E.** based on active learning approach.
4. Explore how Ecology Note can be utilized in the current context, and **how the tool can be customized** to serve teachers in Bhutan
5. Identify **future actions** for mainstreaming E.E. (waste management education) in primary school education and others in Bhutan

Session 1: The State of Waste Management and Environmental Education (E.E) in Primary Schools

6	11:10-11:25 am	The State of Waste Management, National Waste Management Strategy, and the Role of Education for Promoting 4R	Ugyen Tshomo, NEC
7	11:25–11:35am	Waste Management in Environmental Education in Bhutan	Wangpo Tenzin, REC, Ministry of Education
8	11:35-12:05 pm	Current State and Issues of Waste Management in Primary Schools in Bhutan	1. Clean Bhutan 2. Sarpang Environment Officer 3. Royal Society for Protection of Nature
9	12:05-12:15 pm	Q&A	

Session 2: Responding to Waste Management Challenges through Action and Learning

10	12:15-12:30 pm	Youth Action for 4R: Cultivating Pro-environmental Behavior through extra-curricular activities: Current Situation and the Way Forward	Ugyen Tshomo, NEC
11	12:30-12:50 pm	Promoting E.E on Waste Issues through Active Learning for Solving Waste Management Problems: A Case Study from Phnom Penh and Proposal of Ecology Note of Bhutan	Ran Yagasa, Policy Researcher, CCET
12	12:50-1:50 pm	Q&A and Facilitated Discussion <ul style="list-style-type: none"> - How can Ecology Note be utilized in the current context? - How can Ecology Note complement the ongoing E.E efforts? - Integration of GNH Concept? - How the tool can be customized to serve better 	Facilitator: Premakumara, Programme Manager, CCET

Thank you

<https://www.ccet.jp>