

Significance of sustainability education in schools and communities towards attaining zero waste

Reema Banerjee

Programme Coordinator & WB-in-charge

Centre for Environment Education

Centre for Environment Education

- Established in 1984
- Centre of Excellence in EE
- Supported by Ministry of Environment and Forests, Government of India
- Affiliated to the Nehru Foundation for Development (NFD)



CEE's Primary Objective

- Developing programmes and material to increase awareness about the environment and sustainable development.
- To raise public awareness and understanding of environmental issues, with a view to promote the conservation and wise use of nature and natural resources.



Thrust Areas (28)

- Education for Children
- EE in Higher Education
- Education for Youth
- Communicating environment through the Media
- Experiencing Nature
- Industry Initiatives
- Waste Management
- Sustainable Urban and Rural Development



Thrust Areas (contd.)

- EE for Fragile Areas
- Biodiversity Conservation
- Eco-tourism
- Disaster Preparedness and Rehabilitation
- Water and Sanitation
- Initiatives for the UN Decade of Education for Sustainable Development



Reach..

Glimpses of Programmes and Activities

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Revolving Trust is an initiative to earthquake affected areas of Jharkhand to work with and capacity build communities to become more disaster-resilient and eco-friendly.

Along with water, CEE is working to strengthen EE in freshwater systems of 87 states.

Education for a Sustainable Future (ESF) was the first international event of the DEEG. More than 300 participants from over 30 countries gathered to share lessons, experiences and to agree on a common vision, non-traditional, high and cross-cutting.

Education and communication to support sustainable development and livelihoods in mountain regions is the focus of CEE's treasuries initiative.

CEE has distributed over 100 publications in over 15 languages. For a variety of readers. Through CEE's database organization helps disseminate the publications.

Formal and non-formal education programmes help in the emergence of youth in environmental improvement efforts.

Involving over 4000 to 10000 early CEE's National Environmental Education Programme in Schools (NEEPP) reaches out to students and teachers of over 3000 schools across the country.

Specialized school education is one way to create a dialogue with the community for reducing human-wildlife conflicts in and near forest areas.

Publications, websites and websites are part of a concerted effort to reach by 2007 readers.

South and South East Asia Network for EE (SASEAN) is a regional networking initiative launched in 1993 by CEE in collaboration with IIC, Commission on Education and Communication.

Training programmes for environmental educators and development professionals are organized across the country.

CEE is the 'Subject Matter Panel' from the Governmental Resource and Training for EE-CEP of the South Asia Cooperative Environment Programme.

As the National Trust institution for the blind runs programmes of ISEEP - Global Environment Pacific, CEE facilitates sustainable development programmes.

CEE, in association with Inermian Gurjar, has been set a multi-sectoral programme project titled 'Sustainable Living for the Deafened' benefited people at Tandi Nalla Andhra Pradesh and Pondicherry.

CEE is the Environmental Information System (EIS) of India. Negotiations and on important regions to address information needs and facilitate experience sharing.

CEE is facilitating the implementation of an Environmental Management Plan (EMMP) for tiger reserve reduction projects. Training on natural resource based livelihood activities.

In Gularbally, a Common Health care Centre (CHCC) has been established for rural health care services and disease control health care establishments.

CEE develops visitor centres, signage, exhibits, publications, guided trails and other interventions made for natural and heritage sites.

Participation of village students in environmental quality monitoring in Karnataka was CEE's first initiative in influencing EE in higher education.

Next Dehra is one of the camp sites set up by CEE in support of its Experiencing Nature Programme.

Nanda Industrial Estate in Almora is the site of an industrial response to hazardous production and environmental protection.

Sunderban, a Nature Discovery Centre, aims to stimulate a process of inquiry about nature through a variety of approaches that involve one-on-one shows.

CEE's experience in participatory rural development has been applied in post-earthquake rehabilitation programmes in Gujarat.

The Ranthambore project addresses CEE's central mission of promoting sustainable environmental management for sustainable natural resource management for communities living in environmentally sensitive areas.

CEE's programme build in a multi-tier effort to achieve maximum reach and impact.

Surveyed - A Dialogue on Rural Sustainable Development brought together more than 1200 community representatives from nearly 500 project villages to discuss their sustainable rural development experiences and plan for the future.

Recognitions

- The India NGO Award for the western region (joint) in the large scale NGO category.
- CEE's website for children was selected to be finalist for the Stockholm Challenge Award 2008 in the category of Environment.
- The Ryutaro Hashimoto APFED Awards for Good Practices, by the Asia-Pacific Forum for Environment and Development (APFED).
- Srishti Good Green Governance Award
- Plastic on Award: Recognizing Excellence Winner Awarded to Centre for Environment Education, New Delhi Innovation in Plastics.

Waste Management Scenario..



Unscientific disposal of waste leading to soil and groundwater pollution...



Mixing of General and Hospital waste with animal feeding on it (Zoonosis)



Vulnerable group at health risk



CEE's waste management education initiatives

Started in 1990's and have been aimed at policy interventions, awareness and implementing pilot level best practices on waste management in various cities of the country



HAND PRINTTM
action towards
sustainability

Objectives of the Interventions

- In achieving the principles of Reduce, Reuse and Recycling of waste to divert maximum amount of waste from going to landfill.
- Piloting best practices on waste management.
- Education and capacity building on various aspects of waste management for behavioral change.

Intervention in schools and community

Approach

- **Club Approach**

Activities are done with eco club students as regular class lessons. These activities provide alternative ways of teaching/complementing/supporting - what is already there in the textbooks, and thus does not require additional time.

- **Whole School Approach**

Students of Eco/Energy Clubs are expected to take their learnings to the entire school. Members of the Eco/Energy Clubs share their learnings with other students on a regular basis through various activities in built within the programme.

Beyond School

This includes a menu of actions, ideas and guidelines that helps students and teachers go beyond their role as Class and Club teacher, to take the lead in transforming and taking the awareness and action to society and community outside the school.

CLUB APPROACH

Peer group/Eco club training and education..

Participatory and Informal Education..



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WHOLE SCHOOL APPROACH

Implementation and sustaining
waste management activities at
school level.

Waste Audit and Waste Paper Recycling



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Recycled papers made by students



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Composting at School Level



End use of compost



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Vertical Gardens using used PET Bottles..



Whole school awareness on waste management



Competitions related to waste management



BEYOND SCHOOL..

Involving communities..

Exposure Visits to Recycling Units



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IEC Campaigns



Student Reporters



Convergence with National Schemes



Environment Education

Extensive education and capacity building of resident associations



Behavioral Education: must for segregation at source



Inclusion of informal sector- Ragpickers/Waste retrievers



Capacity building of sanitary workers of ULBs



Education for Waste Based Entrepreneurship



Paper Waste Recycling



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Up-cycling of Waste Polybags

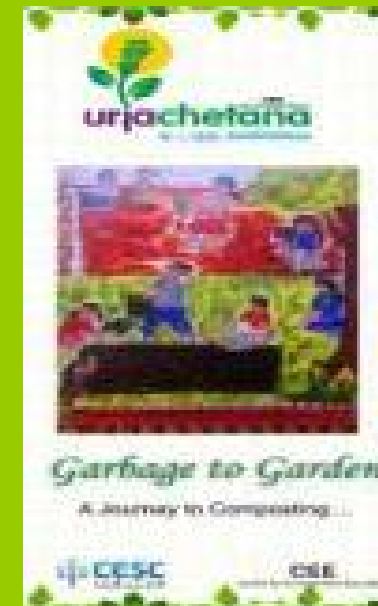
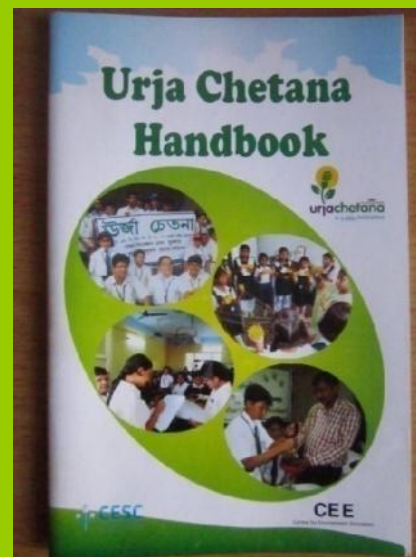


Education for replication to other organisations



IEC on Waste Management





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Impact

- Around a total of 200 kgs of organic waste and 50 kgs of paper waste is being recycled/diverted from going into landfill in 6 months through the composting and handmade paper making by 30 schools.
- As a result of awareness and motivation, few schools are collecting 500 kg of waste paper and send to Paper Recycling Mill in a year regularly.

- Schools have been able to reduce the waste generation through conducting waste audits on regular basis.
- Most of the schools have declared their premise Polybag free zones. The polybags collected through campaigns are routed to the units who uses polybags with bitumen for road construction.
- Exposure trips have has led to increased practical knowledge of the students on the various aspect of waste management as per curriculum/studies in school.

- In 1994-95 PMC became the first ULB to officially register waste pickers through KKKPKP (Kagad Kacg Patra Kashkari Panchyat, a registered trade union). Currently 2300 waste pickers provide segregated waste collection services to 4 lac households.
- PMC has been able to divert 60MT of waste away from landfills. 80-85% waste generated is recycled/processed

- The waste based entrepreneurship has lead to more empowerment of the people who are already involved in the waste management.
- The behavioural change education has also lead to increased reduction and segregation practices in many localities, which in turn lead to improvement treatment and thus towards zero waste.

The education towards attaining zero waste is leading the schools and communities towards a sustainable future..



Thank You

Reema Banerjee

Programme Coordinator, WB in-charge

reema.banerjee@ceeindia.org

www.ceeindia.org