Mainstreaming Sustainability in Education and Skills Development in the Education Sector in India

Kartikeya V. Sarabhai
Centre for Environment Education, Ahmedabad

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Environment and Development

“The environment cannot be improved in conditions of poverty.”

Mrs. Indira Gandhi the then Prime Minister of India speaking at the UN Conference on the Human Environment, Stockholm, 1972
“The real challenge of development is not how to get there, but how not to.”
- India’s report to the UN CED, Rio 1992
The Direction of Development

Developed

Underdeveloped

Unsustainable

Sustainable Development

Leapfrog

Centre for Environment Education
Online Dialogue Process

“Put Education in the core of the Sustainable Development Agenda”
Fundamental duty of Indian Citizen

“To protect and improve the natural environment including forests, lakes, rivers and wild life, and to have compassion for living creatures”

Constitution of India, Part IV A, Article 51A
Curriculum – Environment Education

Supreme Court 1992
Environmental Education
Compulsory at all levels
of Formal Education

National Curriculum Framework (NCF) 2005
developed through a participatory consultation
Project Based Learning

As part of the implementation strategy for environmental education it is now required that in grades 6 to 12, each child does two projects every year.
Sarva Shiksha Abhiyan (SSA)

- Government of India's flagship programme

- To achieve Universalization of Elementary Education making free and compulsory Education to the Children of 6-14 years age group, a Fundamental Right

- Right to Education
  - Teacher Education – Professional qualification a must
  - Teacher Pupil Ratio : 1: 40
  - School infrastructure
  - School management committee – participation of parents
Major Achievements of SSA

- Infrastructure improvement – water and sanitation, classroom, teaching learning material
- Quality education
- Linkages with National programme for child nutrition (MDMS)
- Reduction in no. of out of school children – from 32 million in 2002-03 to 8.15 million in 2011
- Decline in gender and social gaps
- Reduction in drop-out rates (from 39.88 % to 24.82 % for girls)
CEE School Programmes

- Curriculum change
- Teacher Training
- Development of Educational Materials
- Eco-Clubs
- Links with Community
- Whole school approach
- NGOs as a resource
- Recognitions, awards
Hand Print

HAND PRINT™
action towards sustainability

Centre for Environment Education
Reaching out to over 100,000 schools
Themes

- Energy
- Water & Sanitation
- Greening & Biodiversity
- Waste management
- Culture & Heritage
School Plantation Projects

Medicinal plant gardens at Schools
Paryavaran Mitra - India
Through this programme CEE will reach to 20 million students
Eco-Clubs in Schools

**National Green Corps**

Eco-clubs initiative of the Ministry of Environment & Forests involving over 100 thousand schools.

CEE and 6 other NGOs as Resource agency.

Supporting the Nodal Agency in the overall implementation of the programme by developing resource material, training of Key Resource Persons, Master Trainers and teachers.
Capacity Building Teachers

- Capacity building key multipliers (Modes – Direct, Distance learning through technology mediation)
  - **Green Teacher Diploma in Environmental Education**
- Developing material for Teacher Education and training at the national level
  - **Offering EE as a part of the Foundation course in D Ed., B Ed. and M Ed. courses. (NCTE)**
School –Community relationship for ESD

- Compost pits are present in 421 schools who did this activity and on an average, 1 compost pit has been developed in the village whose school has done this activity.
- 1359 families of 185 villages are using Neem oil as mosquito repellent including families from 18 non project villages due to the NGO’s efforts.
From Schools to the Village

- Community members of 671 project villages have been repaired leaking taps as a result of ‘Every Drop Counts’ activity.

- 354 farmers of 129 project villages are using bucket drip system of irrigation by getting information from schools during School Level Annual Event.
Outreach to Community Institutions

- In 10% project schools, the SHG leader has approached the project teacher to discuss about SD activities being implemented in the schools.
- 100% of the activities conducted in schools had involvement of Village head, Self Help Groups and Youth members.
- Financial and material support from village.
Whole school approach

Anandshala – sustainability interventions

- Programme in partnership with the Government of Gujarat and UNICEF
- An integrated initiative in rural tribal schools to help improve the quality of education through capacity building teachers, students and parents
- Focusing on the software aspects (infusion, teaching-learning styles, teaching resources), and hardware (facilities for water, sanitation and hygiene) aspects in the schools
Linking Corporates to Schools

Orientation programme for volunteers who will work with schools
Camping Experience

Education through "Experiencing Nature" Programmes

1. Camps have been started with the objective to
   1. Expose young people to powerful experiences
   2. Introduce concepts normally taught in schools
   3. Develop understanding of immediate
Building Model Green Colleges

- It is a project of South Asia Youth Environment Network (SAYEN) supported by UNEP.
- Focus on major issues – energy conservation, water conservation, waste management and managing green spaces within their college and neighbourhood community.
Regional Centres of Expertise (RCE)

- A network of formal, non-formal and informal education organizations
- Provides innovative platform for multi-sectoral and interdisciplinary information sharing, dialogue and collaborating for promoting ESD among regional and local stakeholders
Environmental Quality Monitoring

- Aim to develop and test a practical approach for gathering and analyzing local specific information
- Students involved due to familiarity with the local environment, good rapport with the local people, better skills for generating scientific information
- Manuals prepared and professors were trained
- The status report prepared based on the information gathered were helpful to the local governing bodies and decision makers
Management Education Centre on Climate Change (MECCC)

- Established with the aim of creating awareness and building capacities in order to address new emerging challenges like climate change.
- Centre offers long term and short term courses (MSc. in Climate Change Impacts Management) along with research and development activities.
- Action projects are part of course and students have done different projects (for eg. project related to calculating carbon footprint of their institution, locality etc.)
Energy Clubs in ITIs

- Sensitize and capacity build a key stakeholder group - ITI students, who have the potential of bringing about a major impact in the way energy is used and conserved in the industrial world.
- Develop model ‘Energy Club’ in vocational education system
- Project activities - orientation workshop for faculty in-charge and GIS mapping of ITI campuses
Science Express Biodiversity

- 8 coaches on Biodiversity
- Will be seen by 1.5 million people (75% children) over 2 years
- Platform activities, one coach for experiments
- Linked to school follow-up
- Part of COP 11 activities
Increase your Handprint!
Decrease your Footprint!