



Education for
Sustainable Development
Good Practices from Pakistan



United Nations
Educational, Scientific and
Cultural Organization



Education for Sustainable Development

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Foreword

This publication is published under UNESCO's programme for Post Conflict and Post Disaster situations that aims to harness social cohesion in conflict affected areas of Khyber Pakhtunkhwa bordering between Pakistan and Afghanistan. The illustrations outlined in this publication are expected to promote ideas of "Practicing Education for Sustainable Development (ESD)" in Pakistan, particularly in the province of Khyber Pakhtunkhwa.

ESD entails a set of values that keeps respect for diversity at its very core-respect for others, for present and future generations, for differences and diversity, for the environment, and for the resources of the planet Earth. Education enables us to understand human lives in relation to the wider natural and social environment. Such an understanding lays a sustainable foundation for building the sense of respect within ourselves. Along with promoting a sense of responsibility, exploration and dialogue, ESD aims to move us to adopting behaviors and practices that enable all of us to live a full life without being deprived of basic necessities.

This publication is a documentation of some good practices of ESD already available in Islamabad College of Girls (ICG). The compilation of the ESD good practices is expected to serve as an advocacy tool for replicating similar interventions in the other schools. The outstanding ESD programmes being implemented in the College include installation of basic rain water harvesting system managed by students, operationalization of computer lab on solar energy, paper recycling, promoting culture & heritage and establishment of orchard area within educational facility.

We are hopeful with the use of this publication many schools and educators in Pakistan will be motivated and encouraged to mainstream ESD. ESD calls for re-orientating approaches to education from curriculum and textbook development to the processes of pedagogy, teacher training, examination and accreditation.

We believe that this publication will serve as a meaningful reference for educators and educational institutions in Pakistan to provide broad based learning opportunities for their respective students through the adaption of locally developed ESD practices.

On behalf of UNESCO Pakistan we are deeply thankful to the Ministry of Capital Administration and Development for their continued support and facilitation during the whole process of development of this publication. We also extend our appreciation to Islamabad College for Girls for their cooperation in the process and for technical inputs to the publication.

Dr. Kozue Kay Nagata
Director/Representative
United Nations Educational Scientific and Cultural Organization (UNESCO)



Change must start with Education for Sustainable Development.
UNESCO Director General
Irina Bokova.



Education is the most powerful weapon
you can use to change the world.
Nelson Mandela



Let us develop a new generation of sustainable development goals to pick up where the MDGs leave off. Let us agree on the means to achieve them
United Nations Secretary General
Ban Ki-moon

UN Decade of Education for Sustainable Development (DESD)

The UN Decade of Education for Sustainable Development (2005-2014) seeks to mobilize the educational resources of the world to help create a more sustainable future. Many paths to sustainability (e.g. sustainable agriculture and forestry, research and technology transfer, finance, sustainable production and consumption) exist and are mentioned in the 40 chapters of Agenda 21, the official document of the 1992 Earth Summit. Education is one of these paths. Education alone cannot achieve a more sustainable future; however, without education and learning for sustainable development, we will not be able to reach that goal.

The ESD Section acts as the Secretariat for the DESD. It offers oversight, advice, backstopping and coordination support to Member States, National Commissions, stakeholders, UNESCO programme and thematic areas, and UNESCO Field Offices while helping to ensure the coherence of organization-wide activities. Additionally, UNESCO convenes several ad hoc groups to participate in the implementation of the Decade including the UN Interagency Committee for the DESD (IAC), the DESD Reference Group and the Monitoring and Evaluation Expert Group (MEEG).

UNESCO is the lead agency for the UN Decade of Education for Sustainable Development (2005-2014).

Education for Sustainable Development

Education for Sustainable Development allows every human being to acquire the knowledge, skills, attitudes and values necessary to shape a sustainable future. Education for Sustainable Development means including key sustainable development issues into teaching and learning; for example, climate change, disaster risk reduction, biodiversity, poverty reduction, and sustainable consumption. It also requires participatory teaching and learning methods that motivate and empower learners to change their behavior and take action for sustainable development. Education for Sustainable Development consequently promotes competencies like critical thinking, imagining future scenarios and making decisions in a collaborative way. Education for Sustainable Development requires far-reaching changes in the way education is often practised today.

Four thrusts of ESD

ESD has four thrusts or areas of emphasis:

- Improving access and retention in quality basic education
- Reorienting existing educational programmes to address sustainability
- Increasing public understanding and awareness of sustainability
- Providing training

Solar Energy Project



Scientific and technological education must be inspired by the principles of sustainable development.



Solar panel installed at the roof top of ICG, the IT lab of ICG is being run through solar energy

Education for Sustainable Development is not an option
but a priority.

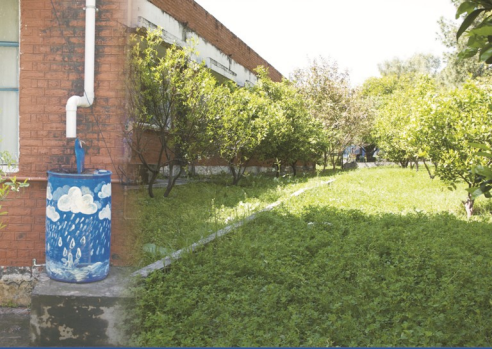


Solar energy: A brighter alternative

Change towards a better quality of life starts with education.



Class in progress: Computer lab of ICG being run through solar energy



Rain Water Harvesting Project

Water education is the strategic entry point in ensuring integrated water resources management for sustainable development at all levels.



Rain water catchment: harvested water being stored in multiple use

Education for sustainable development must be integrated into existing education frameworks, and not be treated as a separate subject matter



Harvested water being supplied into toilets



Connecting Classroom Project: Vegetable Patch

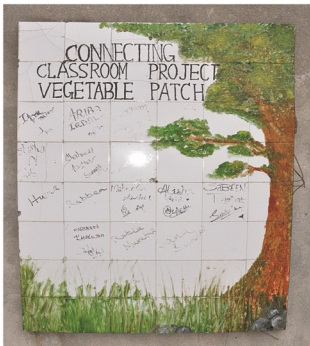
What is Education for Sustainable Development?

It is education that banks on the future. It is designed to enable us to face the major challenges of today: preserving the environment, respecting biodiversity, protecting human rights.



Organic farming of ICG making use of rain water

ESD is, indeed, education for the future



Students' project on education for sustainable development

ESD emphasises the need to change personal/individual and social relations to the local and global ecosystems that we inhabit, including relations of consumption and production.



Greening the college premise through project on ESD.

Teaching society how to behave responsibly towards the environment lies at the core of education for sustainable development



Elegant gathering of Loquat in the college orchard

DISASTER MASTER



Disaster Risk Reduction Project

ESD, through its interdisciplinary and holistic approach to learning, helps create resilient societies.



UNESCO produced Disaster Master Game

Teachers are the cornerstone of effective ESD programmes



Playing Disaster master game is fun

ESD is about promoting values that will enable learners to become real agents of change



All smiles with the sense of accomplishment



Paper Recycling Project

Education for Sustainable Development requires far-reaching changes
in the way education is often practised today



Left to right:

1. Mulberry bark soften with caustic soda being blended.
2. Adding paper pulp to the water suspension.
3. Lowering mould and dackle in water suspension.
4. Lifting mould and dackle and cleaning with squeegee.
5. Pasting the paper for drying.

ESD brings new relevance, quality, meaning and purpose to education and training systems. It involves formal, non-formal and informal education contexts, and all sectors of society in a lifelong learning process.



Artistic products of paper recycling project

Education for sustainable development must be more than just a slogan, it must be a concrete reality for all of us.



Wall clock made out of recycled paper

ESD provides the skills to find solutions and draws on practices and knowledge embedded in local cultures as well as in new ideas and technologies.




Creativity with functionality-paper recycled project

Education for sustainable development concerns all levels, settings and types of education. It must therefore not be conceived as a stand-alone action, but rather as an integral part of any education system and capacity building strategy.



Calligraphy on recycled paper by girl students



Culture
for Peace
Project

ESD highlights the interdependence of environment, economy, society, and cultural diversity from local to global levels, and takes account of past, present and future.



Student drawing the Tomb of Shah Rukne Alam Multan

ESD is fundamentally about values, with respect at the centre:
respect for others, including those of present and future
generations, for difference and diversity, for the environment,
for the resources of the planet we inhabit.



Depiction of diverse cultural heritage in the art work of a girl student

Sustainability: Our Challenge. Our Future



Smile and begin the pinch method to learn pottery

And what about you,
what will be your next action
in favour of Education
for
Sustainable Development?



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UNESCO Islamabad (Serena Business Complex G-9/1, Islamabad, Pakistan,
Ph: +92 (011) 331-718-145 ext 64

Fax: +92 (011) 33000038

www.unesco.org.pk

islatombat@unesco.org

Educational for Sustainable Development: Good Practices from Pakistan (UNESCO Islamabad 2013)