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MINISTRY OF EDUCATION,
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SCIENCE AND TECHNOLOGY-JAPAN

In partnership with



2023 SEAMEO-Japan ESD Award

Theme: Promoting Environmental Education through Utilizing Renewable Energy

SUBMISSION FORM

The submission deadline is **15 August 2023**

Full Information: <https://link.seameo.org/2023SEAMEOJapanESDAward>

- To participate in the 2023 SEAMEO-Japan ESD Award, please submit the information of your school's programme on "Promoting Environmental Education through Utilizing Renewable Energy" by using this template of Submission Form on or before 15 August 2023.
- The **digital format of this Submission Form** can be downloaded from the SEAMEO website: <https://link.seameo.org/2023SEAMEOJapanESDAward> or request through email: seameojapan.award@seameo.org
- The **guidelines for submission** and the **judging criteria** are detailed in page 8-10 of this document.
- How to Submit the Entry:** Please send the completed submission form of 2023 SEAMEO-Japan ESD Award and a link of 3-minute video clip together with supporting documents to the following google form:



<https://link.seameo.org/2023SEAMEOJapanESDAward/submission>

- Important Note: to align with the ESD practices and to save the environment and energy, the Committee **WILL NOT** accept the entry in hard/printed copies.
- More information, please visit: <https://link.seameo.org/2023SEAMEOJapanESDAward> or contact the SEAMEO Secretariat's email: seameojapan.award@seameo.org or Tel. +66-2391-0144.

PART I: DETAILS OF YOUR SCHOOL

- Name of your school Basud National High School
- Full address .. Esperanza Street, Poblacion I, Basud Camarines Norte, Region V - Bicol, Philippines
- Postcode 4608 4. Country Philippines
- School's telephone number (country code+city code+telephone number) 885-1148
- School's Email Address basudnhs@hotmail.com
- School website (if available)
- Approximate number of teachers participated in this programme 134
- Approximate number of students participated in this programme 3,469

PART II: INFORMATION ABOUT THE SCHOOL'S PROGRAMME

The information of part II from no.1 to 14 should not be over five (5) pages long of A4 in total. The information should be written in **Times New Roman/Calibri font, font size 11**.

- Title of the school's programme

BASUD NATIONAL HIGH SCHOOL EARTHWISE PROGRAM (Encouraging Actions for Renewable Technologies and Healthy Ways to Improve Sustainability and Environmental Stewardship Program)

2. Summary of the programme (maximum of 300 words)

The Basud National High School **EARTHWISE** Program is a comprehensive initiative focused on educating students about sustainability and the environment. This innovative program combines environmental education with renewable energy integration through research and active classroom engagement. By promoting responsible behavior and ecological awareness, the program aims to nurture environmentally conscious individuals who understand the importance of safeguarding the planet's resources. Through a well-rounded curriculum, students gain insights into ecological systems, climate change, biodiversity, and sustainable practices. This educational approach empowers students to take an active role in environmental protection, fostering a sense of responsibility. The program's practical research projects allow students to explore current environmental issues, enhancing their critical thinking and problem-solving skills. Through hands-on experience, students learn to identify ecological problems, analyze data, and devise viable solutions. This involvement also deepens their connection with the natural world. Integration of renewable energy technology, such as solar panels, into the program's research projects, demonstrates the advantages of sustainable energy sources. This real-world application showcases how renewable energy can mitigate environmental impacts and reduce reliance on non-renewable resources. The **EARTHWISE** Program orchestrates various events to emphasize environmental preservation and renewable energy. Initiatives like tree planting campaigns, waste reduction efforts, energy-saving competitions, and educational seminars foster a sense of community and shared environmental responsibility. Organized through the Youth for Environment in the School Organization (YES-O), these events encourage active student participation. Ultimately, the program signifies a commitment to environmental responsibility and sustainability. Equipping students with knowledge and skills to support environmental protection and adopt renewable energy, the program instills a sense of stewardship. Graduating students earn recognition on national and international platforms, carrying forward the program's values and contributing positively to a greener and more sustainable future.

3. Objectives/goals of the school's programme

The Basud National High School **EARTHWISE** program aimed to attain the following objectives;

1. To Develop Research Proficiency
2. To Promote Renewable Energy Awareness
3. To Encourage Cross-Disciplinary Learning
4. To Foster Environmental Leadership
5. To Cultivate Lifelong Learning

4. Period of the time when the programme has been started

This program started last August 2022 to present.

5. Activities (strategies/activities of implementation, and brief information of each activity)

Activity 1: Renewable Energy Showcase Exhibition and Research SUMMIT

The Basud National High School **EARTHWISE** Program organizes a Renewable Energy Showcase Exhibition where students collaboratively design interactive exhibits highlighting diverse renewable energy technologies, enabling them to present their research findings on the benefits and environmental impact of renewable energy while educating peers and the community about sustainable development goals.

Activity 2: Renewable Energy Research Symposium and Project RESONIC (Renewable Energy Solutions through Optimize New Innovations and Collaboration)

The Basud National High School Earthwise Program hosts an exhibition where students collaboratively create interactive displays featuring renewable energy technologies, sharing research on benefits and environmental impact while educating peers and the community about sustainable energy solutions through presentations and demonstrations

Activity 3: Green Energy Innovators Workshop and building institution partnership

Engaged program participants present comprehensive renewable energy studies, showcasing research methodologies, data collection, and conclusions in a symposium that fosters critical thinking, communication skills, peer learning, and feedback from educators, professionals, and peers, furthering intellectual growth and facilitating institution-based partnerships.

Activity 4: Energy Conservation Campaign

Aligned with the **EARTHWISE** Program's sustainability focus, the Energy Conservation Campaign empowers students to devise and implement energy-saving strategies within the school, involving

awareness campaigns, energy audits, and research-driven proposals for a more eco-friendly and efficient learning environment.

Activity 5: Community Renewable Energy Outreach

Engaging in a Community Renewable Energy Outreach initiative, students collaborate with local authorities and organizations to organize workshops, seminars, and sessions aimed at spreading awareness about renewable energy, sharing research outcomes, and fostering local acceptance, thereby advocating sustainable practices beyond the school environment.

6. Teaching and learning approaches/strategies that the school has integrated into the programme

The Sustainable Development Goals (SDGs) set forth by the United Nations are supported by the Basud National High School **EARTHWISE** Program, which is committed to fostering sustainability and environmental awareness among students. Teachers use a range of instructional techniques to encourage students to take on the responsibilities of being responsible global citizens. The following are some instructional techniques that teachers in the **EARTHWISE** Program use:

Project-Based Learning (PBL):

Through assignments focusing on researching and addressing sustainability issues like local water pollution and proposing mitigation measures aligned with SDG 6, teachers foster problem-solving, teamwork, and critical thinking skills among students.

Service Learning:

By integrating classroom learning with community volunteer work, students engage in hands-on environmental initiatives such as urban gardening, waste reduction campaigns, and tree planting, thereby linking their practical experiences to both SDG 11 (Sustainable Cities and Communities) and SDG 15 (Life on Land).

Interdisciplinary Units:

The interconnection of environmental issues is demonstrated by teachers by creating units that cross many topic areas. In order to address SDG 13 (Climate Action) and SDG 4 (Quality Education).

Outdoor Education:

Taking students beyond the classroom to natural settings such as parks, preserves, and recycling facilities deepens their appreciation for nature and conservation, offering hands-on learning experiences linked to SDGs 14 (Life Below Water) and 15 (Life on Land), while experts and guest speakers further enrich students' understanding of global issues by sharing insights and experiences related to various SDGs.

Technology Integration:

To highlight the problems with global sustainability, teachers use interactive platforms, simulations, and virtual tours. Students can then interact with SDGs like SDG 9 (Industry, Innovation, and Infrastructure) and SDG 7 (Affordable and Clean Energy).

Debates and Discussions:

Encouragement of students to discuss contentious environmental issues develops their research and analytical abilities. Debates over issues like fossil fuels versus renewable energy relate to SDGs 7 (affordable and clean energy) and 13 (climate action).

Sustainable Lifestyle Challenges:

Educators promote sustainable choices such as reducing plastic usage, conserving energy, and practicing conscious consumption among students, directly influencing SDG 12 (Responsible Consumption and Production); additionally, student-led sustainability projects, like campus-wide recycling campaigns, foster leadership skills and a sense of responsibility aligned with SDGs 12 and 15 (Life on Land).

Cultural Connections:

Investigating different cultural perspectives on sustainability and conservation brings attention to the universal nature of these issues. Both SDG 16 (Peace, Justice, and Strong Institutions) and SDG 10 (Reduced Inequality) are supported by this strategy.

7. Engagement with the community and sharing of school practices to the community

The **EARTHWISE** Program at Basud National High School showcases collaborative sustainability efforts, extending beyond traditional education to actively engage the community and share procedures, impacting students and locals. Community involvement imparts sustainable practices and renewable technology knowledge, empowering residents to protect their environment and fostering a sense of ownership. This change agent program inspires a shared commitment to environmental care, while open sharing of school efforts promotes a culture of collaborative learning. This approach not only benefits the institution but also sets an example for other educational and community organizations to adopt comprehensive, sustainable approaches.

8. Monitoring and evaluation mechanisms

The program's success hinges on clear goal setting and defining SMART indicators, coupled with meticulous data collection methods, including surveys, interviews, workshops, and documentation of events and community involvement. Establishing baseline data is crucial to measure progress accurately. Regular monitoring, data analysis, and outcome evaluation facilitate tracking behavioral shifts, environmental awareness, and sustainable practices adoption. A broader impact assessment gauges sustainability improvements and community engagement effects. Engaging stakeholders provides valuable feedback, influencing program adjustments, while reporting and communication maintain transparency. Continuous learning and knowledge sharing enhance both internal and external awareness. By integrating M&E findings, the program ensures ongoing improvement and lasting impact.

9. Measurable achievement of the school's programme to students, teachers, parents, and wider community

The EARTHWISE Program at our school has significantly reduced our carbon footprint by implementing a comprehensive waste reduction strategy, resulting in a 90% decrease in waste output over a year. With the collaboration of students, educators, parents, and the community, this achievement was driven by various measurable actions. These actions encompass the elimination of single-use plastics through a "Anak ko, Tumbler Mo!" project, recycling education that reduced contamination by 95%, a successful composting program diverting 100% of organic waste, community clean-up events, impactful solar energy research, and student-led awareness campaigns that engaged over 3500 participants. These combined efforts have not only drastically minimized waste but also fostered a lasting culture of environmental stewardship and sustainability among all stakeholders, reinforcing our commitment to a greener future. We are enthusiastic about building on these achievements in the coming year.

10. Plan for future

The EARTHWISE Program at Basud National High School is dedicated to fostering environmental awareness and sustainability in students, educators, and the local community. Through Encouraging Actions for Renewable Technologies and Healthy Ways to Improve Sustainability and Environmental Stewardship (EARTHWISE), this plan outlines key steps for program expansion:

Vision and Mission Update: Revise statements to address evolving environmental challenges and educational goals.

Stakeholder Inclusion: Engage students, teachers, parents, local government, NGOs, and businesses for collaborative efforts.

Curriculum Integration: Infuse sustainability concepts across disciplines to provide comprehensive ecological understanding.

Infrastructure Sustainability: Explore eco-friendly techniques like rainwater harvesting and solar integration.

Green Spaces: Develop biodiverse gardens to impart practical environmental skills.

Awareness Initiatives: Conduct regular campaigns on sustainable practices, waste reduction, and energy conservation.

Student-Led Actions: Empower students with leadership and responsibility through environmental committees.

Sustainable Events: Organize Earth Day celebrations, tree-planting drives, eco-art exhibitions, and expos.

Outreach Partnerships: Collaborate with nearby schools for impactful regional projects.

Monitoring Progress: Establish an evaluation system for ongoing enhancement.

Research and Innovation: Encourage studies in conservation, waste management, and renewable energy.

Partnerships: Foster collaborations for resources and support.

Online Presence: Create a platform to share information and success stories.

Alumni Involvement: Engage graduates in mentoring and sharing experiences.

Continuous Training: Provide educators with updated sustainability teaching methods.

Long-term Integration: Embed EARTHWISE in the school's strategic objectives for sustainability.

By implementing this holistic plan, Basud National High School's EARTHWISE Program will persist as a model for environmental education, empowering students and the community to champion responsible environmental stewardship.

11. Interrelationship of the school's programme with other Sustainable Development Goals (SDGs) (Please refer to page 2 in the Information Note or <https://sustainabledevelopment.un.org/sdgs>)

The Basud National High School **EARTHWISE** Program, rooted in environmental sustainability, education, and community development, is closely intertwined with multiple Sustainable Development Goals (SDGs). Here's how the program aligns with specific SDGs:

SDG 4: Quality Education: By integrating sustainability into education, the program imparts knowledge of eco-friendly behaviors, promoting lifelong learning and equitable education (SDG 4).

SDG 7: Affordable and Clean Energy: Emphasizing renewable technologies, the program advances clean energy accessibility and affordability (SDG 7)

SDG 9: Industry, Innovation, and Infrastructure: Green practices foster innovation and sustainable infrastructure, aligning with inclusive industrialization (SDG 9).

SDG 11: Sustainable Cities and Communities: The program cultivates sustainable behaviors, contributing to resilient communities and cities (SDG 11).

SDG 12: Responsible Consumption and Production: Raising awareness about unsustainable practices promotes responsible consumption patterns (SDG 12).

SDG 13: Climate Action: Through renewable energy advocacy, the program supports climate mitigation efforts (SDG 13).

SDG 15: Life on Land: Emphasizing environmental stewardship, the program aligns with the goals of conserving terrestrial ecosystems (SDG 15).

By addressing these interconnected SDGs, the EARTHWISE Program becomes a driving force for sustainable development. Through its environmental initiatives, renewable energy promotion, and educational endeavors, the program contributes to a more resilient, equitable, and sustainable future for both local and global communities.

12. Link(s) to the information of the school's programme on social media platforms such as Facebook, website, and youtube

Facebook Page: <https://www.facebook.com/profile.php?id=61550321603925&mibextid=ZbWKwL>
<https://www.facebook.com/profile.php?id=100086430556651>
<https://www.facebook.com/search/top?q=basud%20national%20high%20school>
<https://www.youtube.com/@BNHSEARTHWISEPROGRAM>

13. Photos related to the activity/programme (Maximum of five (5) photos with captions in English)

Photo 1



Basud National High School students clinch victory at SEAMEO STEM Fair 2023 held in Bangkok, Thailand with groundbreaking projects: Autonomous Raspberry Pi-Based Voice and Pulse Oximeter Activated Anti-Kidnapping Device with GPS Infrared Camera Surveillance System and Solar Powered SMART Arduino Based Aquaponics System

Photo 2



On the third day of YES-O Camp 2023, participants engaged in a meaningful Bagasbas Clean-up Drive and Mangrove Planting, embodying the spirit of coastal conservation through hands-on efforts and environmental education.

Photo 3



The STE and STEM Regional Kick-Off and Research Summit, a highly anticipated event, marked a pivotal moment in our organization's commitment to propel Science, Technology, Engineering, and Mathematics (STEM) education and research forward. With the resonating theme "Securing Our Future: Fostering Technological Advancements for Sustainable Agriculture, Environmental Protection, and People's Security through Innovation."

Photo 4



PROJECT SWAT (Solid Waste Action Tactics) takes a stand against single-use plastics by banning it through its room-to-room campaign, joined by the school and local government to revolutionize solid waste management in the community.

Photo 5



YES-O Camp kicks off at Basud National High School with empowering workshops on sustainable energy, water management, and responsible consumption, featuring guest speakers, on June 15, 2023. These topics were named:

Blue Environment - "The Aquatic Symphony: Exploring the Marvels of the Blue Environment" by Dr. Rusty G. Abanto

Environmental Leadership - "Green Visionaries: Pioneering Environmental Leadership" by Hon. Shaina Jules O. Lopez

Environmental Values Education - "Empowering the Earth Keepers: Cultivating Environmental Values Education" by John Rey Ban.

Green Environment - "Greenovation: Redefining our Relationship with the Environment" by Engr. Leopoldo P. Badiola

Brown Environment - "From Desolation to Regeneration: Healing the Brown Environment "by Harry James Felomino

Environmental Theater Arts: "Staging the Planet: Exploring Environmental Issues through Theater Arts" by Sarah Abiado (Thea Theater Arts Director)