

ZHUB NEWSLETTER

Q4/2023
HA NOI CAPITAL, VIET NAM



Students of Experimental School of Education and Science participate in glass recycling at the "Plastic Talk show", Goethe-Institut, Ha Noi



At the ZHub GreenUp activity, young people learned how to classify and audit various types of waste, Thong Nhat Park, Ha Noi



Teenagers discover environmental messages through Nystic keychains (Mascot of the ZHub Programme) in the Film Screening and Discussion Event "Plastic Challenge" at the Goethe-Institut *, Hanoi

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“ZHUB GREENUP ” Community activities toward youth



ZHUB FUTURE PLAN (Q1 - 2024)

*The Goethe-Institut in Hanoi is a German registered charity organization supported by the German government. It provides cultural, language and educational activities, including public science literacy. It collaborates with and supports GreenHub's ZHub programme on waste management



Students of Experimental School of Education and Science share green messages through wall newspapers designed at the contest "Designing Wall -newspaper - Zero waste School " in the "Plastic Talk show"

I. TERMS AND DEFINITIONS

1. ZHUB This program is developed and implemented by GreenHub, to raise student and community awareness towards behaviour change about environmental protection, limiting Single-Use Plastics, and encouraging product reuse, recovery and environmentally friendly materials.

2. ZERO WASTE The conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging, and materials without burning and with no discharges to land, water, or air that threaten the environment or human health. (Source: Zero Waste International Alliance - <https://zwia.org/zero-waste-definition/>).

3. "ZERO WASTE SCHOOLS" MODEL The Zero waste concept implemented by schools and universities with practical activities by students, teachers, and staff, seeking to raise awareness and minimize waste impacts on the environment or human health.

4. MRF MODEL A "Material Recovery Facility" (physical structure, equipment, and operation) adapted to each school's capacity, to convert organic solid waste to compost, and collect recyclable materials from other solid waste.

5. COMPOSTING Composting is the natural process of recycling organic matter, such as leaves, stems and food scraps, into a valuable fertilizer that can enrich soil and plants.

6. STEM The international abbreviation for Science, Technology, Engineering and Mathematics. STEM education is an educational approach that aims to provide students with scientific knowledge and improve their ability to integrate and apply it to real life. (Reference from source: Official dispatch No.3089/BGDĐT-GDTrH - Ministry of Education)



The judges are scoring each team's recycling waste bin in the contest "**Designing waste bin from recyclable waste: BINNOVATION**" at Phenikaa University

II. COMPETITIONS IN SCHOOLS

Enhance awareness of environmental protection



ESES student presents and explains her submission in the contest "**Designing wall-newspapers: Zero waste School**"

The contest "**Designing waste bin from recyclable waste: BINNOVATION**" was held at Phenikaa University, and the contest "**Designing wall-newspapers: Zero waste School**" was held at Experimental School of Education and Science (ESES) from November to December 2023.

Although organised with different content, both competitions are learning playgrounds for students to show their creativity and express their love for the environment and the knowledge gained from the ZHub Programme.



Students from Phenikaa University share ideas about their waste bin models made from recyclable waste in the contest "**Designing waste bin from recyclable waste: BINNOVATION**"

The Phenikaa University contest "**Designing wastebin from recyclable waste: BINNOVATION**" had the practical goal of designing models of bins from recyclable waste, to separate waste in the University.

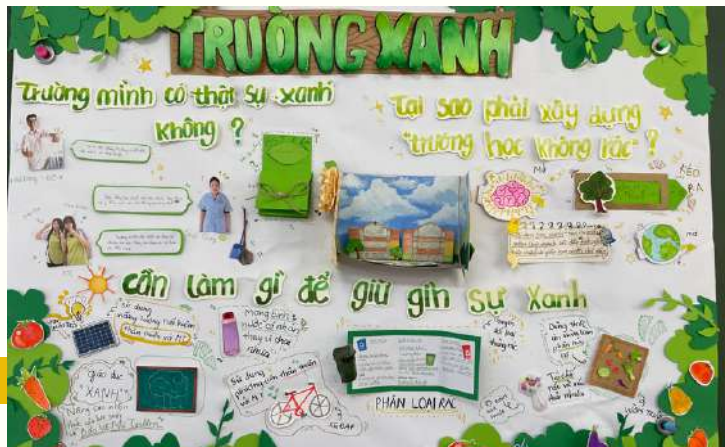
Waste bin models represented students' perspectives on designs for collection and separation and separation of valuable recyclable waste, especially relevant for a technological university as Phenikaa. This contest proved to be a valuable learning experience in design and understanding of waste separation for Phenikaa students.

Potentially useful waste bin models will be replicated in larger numbers for waste separation within the university. This will be combined with a training programme, so that an effective waste separation system will be ensured.

The ESES contest "**Designing wall-newspapers: Zero waste School**" was designed for high school students.

The contest is launched annually to celebrate National Teachers' Day in November. However, in 2023, this contest was supplemented with an additional topic: "Zero Waste School", which incorporated opportunities to express student opinions and useful information on waste management learned through the ZHub programme.

The ZHub Programme is structured so that in addition to training, student communication activities are promoted play an important role in raising awareness and amplifying the spirit of environmental protection



One product of ESES student in the contest "**Designing wall-newspapers: Zero waste School**"



ESES student is sharing the image of her class's vision of "green" Experimental School, in the contest "**Designing wall-newspapers: Zero waste School**"

III. GUIDANCE SET FOR WASTE SEPARATION, ZERO WASTE PRACTICE AND ORGANIC WASTE TREATMENT

The visible sustainability of the Programme



Student from ESES is sharing knowledge about waste separation in class assembly hours for classmates

ESES is the second school to successfully complete its goals from the beginning of "Zero waste" journey.

After a series of training sessions and practice activities on waste separation, as well as on composting methods at the school's Material Recovery Facility model (MRF) area, the ZHub Programme compiled a Guidance Set ("Guidance Set for waste Separation, Zero waste practice and organic waste treatment"), including 4 instructional videos on waste separation, practicing "Zero waste" and composting technique; as well as lesson plans about plastic and its path after disposal with instructions for applying this document set. These materials were handed over to the ESES teachers.



Waste separation guiding board installed at the ESES



Meeting between ESES and GreenHub, surveyed the results of 2 years of cooperation, and implementation plans to integrate Zero waste school knowledge into future lessons

The **Guidance Set** includes:

- Visual teaching aids
- Material Recovery model (MRF)
- Waste Separation model (installed at the school before)
- Different media (video, PowerPoints, Pictures...) and scientific knowledge integrated and applied to real life (eg. STEM education)

This set of materials is designed to contain both formal presentations and short videos, facilitating use by teachers during official class-room exercises, or training students in outdoor activities, class assembly hours, even as co-curricular sessions.

Students learn about Zero waste through videos/visual teaching aids, then determine how to apply what they have learned in daily life, and practice this right in the installed MRF and composting models in their school.

Changing student habits and sustaining them can also have a great impact on their families and the surrounding environment.

In addition, the teachers can use the materials of the “**Guidance set for Waste Separation, Zero waste practice and organic waste treatment**” for future classes with new students, contributing to sustainability of the programme.



Students of ESES approached Zero waste knowledge through videos provided by ZHub programme



IV. “ZHUB GREENUP”

Community activities building youth awareness and behavior about environmental protection



Students from 35 Schools and Universities in Ha Noi were instructed to use waste separation tools at ZHub GreenUp activity, Thong Nhat Park, Ha Noi on December 3rd

As a development of the ZHub programme, starting from the fourth quarter of 2023, not only targeting students, the ZHub programme expanded its outreach with direct participation to young people in local communities, creating community connection and values, and connecting communities with schools.

On a warm Sunday morning of December 3, 2023, 59 young persons from different schools, universities, areas and ages participated in the “ZHub GreenUp” activity, to clean up the landscape of Thong Nhat Park, Hanoi city, transferring and sharing a lot of useful environmental protection knowledge.



ZHub GreenUp participants react with the questions about waste issues



(1) GreenHub coordinator guiding youth in waste separation



(2) Sorted waste is transported to weighing station



(3) Bagging the collected waste to weigh

Students from 35 Schools and Universities in Ha Noi learn how to separate and audit waste after collection at ZHub GreenUp activity, Thong Nhat Park, Ha Noi

Participating youth grasped Zero waste concepts, rules, practices, waste separation technique, and at the same time, shared within the group, their daily actions to reduce plastic at home such as carrying their personal water bottle, food containers, and cloth bags when going out, using bicycles instead of motorbikes when possible, and separating waste with high recycling value to develop the recycling chains. Some also composted organic waste for plants at home.

It is these practical educational activities that increase motivation for the ZHub Programme to expand our network and positive impacts



The young volunteer shares the knowledge about waste that she has learned with other participants

These outreach events are expected to be held quarterly by the ZHub programme, using many different forms such as talk show, seminars, visits, trips to “green” production models, raising community awareness, towards focusing on changing behaviours.

As a result, initiating new Zero Waste communities through youthful interventions, and strengthening similar interests, sharing environmental knowledge and reducing environmental impacts.

They will become core factors in spreading "Green" values to their families and localities. This is the wider community value that the ZHub programme targets from the beginning.



Teenagers learn information about waste at the ZHub GreenUp activity

V. ZHUB FUTURE PLAN (Q1 - 2024)

Expanding ZHub partnership in Ho Chi Minh City

Partnership expansion to other cities, especially Ho Chi Minh City (HCMC) is in the first quarter 2024 plan of the ZHub Programme.

After successful Zero waste School models in Hanoi, ZHub has the experience and solid foundation to apply, expand and customize this model to other schools and universities. HCMC is the largest city in Vietnam, and bordering with the sea, so focusing on solving waste problems at schools and on the mainland here can contribute to limiting solid waste leaking into the marine environment.

The ZHub program has received many invitations to cooperate from potential partners. We expect that the development and signing of cooperation agreements with new schools in Ho Chi Minh City will take place in the first quarter of 2024.

Implementing a MEL System** (Monitoring, Evaluation and Learning) to monitoring the ESES Zero waste school model in Hanoi capital

ESES has achieved 2-year partnership with the ZHub programme, with many admirable results.

To broaden those results and connect schools in Ha Noi city in practicing waste reduction, a talk show on Zero waste School topic at ESES will also be held in January 2024, with the participation of participation of all 4 core schools in the ZHub Programme.

The successful model of the ESES will be maintained and developed through a **MEL system**, including:

- Additional training about waste separation and Zero waste practice
- Technical support for MRF model
- Teaching materials about Zero waste to apply at school

The ZHub programme implements the **MEL System** as a key section of its to evaluate, maintain and improve successful Zero waste School models.

Establishing a waste separation model at Phenikaa University and the Academy of Policy and Development (APD) in Ha Noi capital

After receiving and approving suitable designs from the contest "**Designing waste bin from recyclable waste: BINNOVATION**", Phenikaa University will adapt a practical waste separation model technique to their University campus. This helps to reduce campus waste into the environment. This also increases the amount of waste with high recyclable value entering the recycling chain

At The APD, the Academy leadership board realises that the number of batteries (from microphones, mobile speakers, projectors, computer mice ..) discharged every day from teaching activities and APD staff and student households is quite large. To address this electronic waste problem, the ZHub programme will organise with APD and qualified collection party to collect and process this hazardous electronic waste to reduce pollution from inadequate waste disposal on public health and the environment

**MEL system (Monitoring, evaluation, and learning) is a system or cycle with all three components, monitoring, evaluation, and learning, working in tandem and as a thread through all programme phases - from early design through implementation and completion.





H&M is the first and main sponsor of ZHub programme - Zero waste Schools and More

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