



Environmental Management Bureau



Annual Report

CY 2021

Environmental Education and Information Division



Assessment of Physical and Financial Performance

The Environmental Education and Information Division (EEID) of the Environmental Management Bureau (EMB) of the Department of Environment and Natural Resources (DENR) has successfully worked towards the achievement of all its target for the CY 2021. As the education, information and communication arm of the EMB, the EEID has consistently supported the Bureau through its projects, programs, and activities.

To implement its 2021 approved Work Plan, the EEID was given fund of 14,045,000. These were distributed for education, information, and documentation and inventory programs and activities as well as support to regional IEC campaigns.

The Environmental Education program of the Division was able to obligate 1,564,200 at the end of the year. This amount was fully utilized with the conduct of the following activities: Capacity Building for Regional Information Officers, EMB employees, and Higher Educational Institutions, Production of Modules, Workshop for Schools, Forum for the National Search for Sustainable and Eco-friendly Schools and the Development of Environmental Education Programs for Teachers, Schools Heads and Supervisors.

Environmental Information program was conducted for multi-stakeholder participants. Support activities for environmental events were held, development and production of IEC and promotional materials were carried out and strengthening of the EMB website and social media pages was prioritized. These activities made use of 5,414,268.00 out of the total budget of the Division.

The Environmental Documentation and Inventory Section focused on the promotion, recognition and documentation of good environmental practices and IEC and mobilization activities for the Adopt-an-Estero Waterbody Program and the Manila Bay Rehabilitation. These activities were conducted with 1,157,140.71 funding from the Division.

Regional counterparts were also supported by the EEID. Through the 5,900,00.00-budget augmentation to all EMB Regional Offices, IEC campaigns were intensified.

Considering all this figures, an estimated 99% (1,384,600.71 from 14,045,000.00) of the allotted fund was obligated by end of December 2021. The balance from 100% is due to savings from procurements for goods that were below the approved agency budget costs.

The challenge brought by the COVID-19 pandemic may have continued yet the EEID faced it head-on. With its 100% physical accomplishment and 99% financial utilization, the EEID has proven that they are continuously improving and adapting to change.

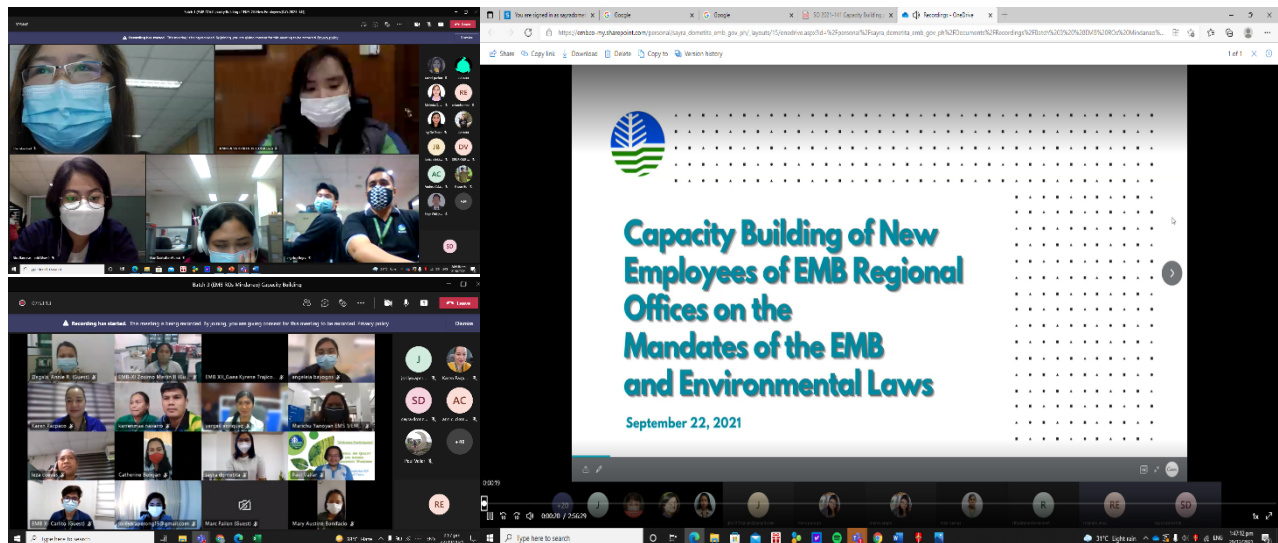
ENVIRONMENTAL EDUCATION SECTION

Assessment and Planning Meeting with the Regional Environmental Education

To conduct assessment of EMB Regional Offices' projects/program/activities for FY 2020 and to harmonize plan for FY 2021, the Environmental Education and Information Division (EEID) together with the Regional Environmental Education and Information Officers conducted the assessment and planning meeting on January 26-27, 2021.

The EEID led the activity with the presentation of key result areas for FY 2021 while the participants presented their accomplishment while also suggesting areas for improvements in the conduct of IEC campaigns.

Capacity Building of New Employees of EMB Central and Regional Offices on the Mandates of the EMB and Environmental Laws

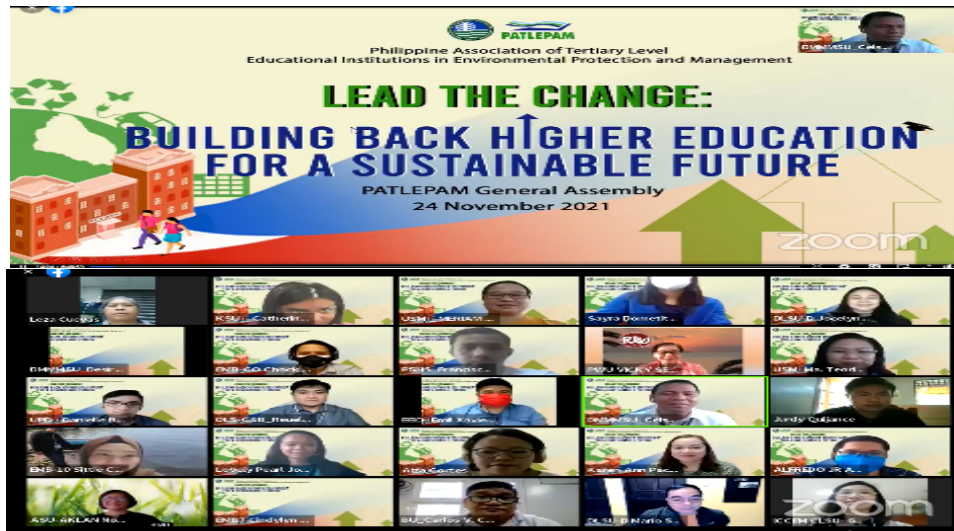


As part of the capacity building program of the Environmental Education and Information Division to orient new entrants of EMB Central and Regional Offices, the Division in coordination with the EMB – Human Resource Management Section conducted the “Webinar for The Capacity Building of New Entrants of EMB Central and Regional Offices on the Mandates of the EMB And Environmental Laws” in July 21, August 18, and September 22, 2021.

The webinar was an avenue to orient new employees of EMB Central and Regional Offices on the EMB Mandates and Environmental Laws and to equip new EMB employees with knowledge and skills in environmental management and to let them recognize applicable legal and regulatory requirements for the environmental compliance relevant to their functions.

Technical personnel from the EMB Central Office were invited to educate the participants about environmental laws.

Capacity Building of Higher Educational Institutions in Environmental Protection and Management



The Environmental Management Bureau (EMB) in collaboration with the Philippine Association of Tertiary Level Education Institutions in Environmental Protection and Management (PATLEPAM) conducted Webinar for Environmental Educators with the theme “Lead the Change: Building Back Higher Education for a Sustainable Future”. The Webinar, held on November 24, 2021 became an avenue for the presentation of researches/studies on environmental education, sustainable development for the new normal, technology, environmental impacts due to pandemics, and “building back better” programs that may be adapted by the government for environmental recovery.

National Search for Sustainable and Eco-friendly Schools Partners Forum

In support to the celebration of the National Environmental Awareness Month, the EMB-EEID organized the National Search for Sustainable and Eco-friendly School Partners Forum on November 10, 2021.

With the theme Advancing Sustainable Schools for the New Normal, the forum presented the National Search for Sustainable and Eco-friendly School Program's accomplishment and milestone and the winning schools for the last 10 years' notable programs. The Department of Education and Nestle Philippines also showed their support through their organizations various projects and programs.

With this forum, partnership with the national, local and private sectors in advancing NSSEFS for the new normal is encouraged.



GLOBAL SEARCH FOR SUSTAINABLE SCHOOLS

The Global Search for Sustainable Schools is a project under the Sustainable Lifestyles and Education (SLE) Programme, part of the One Planet Network for the implementation of the 10-Year Framework of Programmes on Sustainable Consumption and Production Patterns (10YFP). Launched in 2019, the program continued with five schools from the NSSEFS winners, Agusan Del Sur National High School, Caranan North Elementary School, Concepcion L. Cazeñas Memorial School, Santiago City National High School, and Santiago North Central School-SPED Center, implementing their sustainability plan with the grant received.

A culminating activity was also conducted on June 30, 2021. With the theme "Mainstreaming Sustainable Lifestyles into Formal Education in the Philippines", the activity showed the accomplishments of the GSSS Philippines participating schools in teaching students and integrating sustainable development and sustainable lifestyles in their lessons and school programs despite the challenges faced in the midst of a global pandemic.

SUPPORT TO SOLID WASTE MANAGEMENT CONCERNS

Printing of Solid Waste Management Modules for Grades 1-10

The EMB-EEID has printed 3000 copies of Solid Waste Management Modules for Grades 1-10. These modules were developed by Nestle Philippines and approved by the National Solid Waste Management Commission.

Study on Face Mask Management in the Philippines

In coordination with the Philippine Association of Tertiary Level Education Institutions in Environmental Protection and Management (PATLEPAM), a study on Face Mask Management in the Philippines was conducted.

The study estimates that the Philippines currently disposes roughly **25 million face masks a day**, with pre-disposal practices varying in terms of segregation, temporary storage, disinfection, and mode of collection, among others.

Based on the surveys conducted among the General Public, it was found out that:

- 7 in 10 Filipinos throw their disposable face masks after only one use.
- Most households do not have separate garbage bins for used face masks and general wastes.
- 1 in 10 respondents reported a separate collection of face masks wastes in their locality.
- Most households do not cut, disinfect or temporarily store face masks prior to disposal.

From the survey among Local Government Units, the following are the main findings:

- 1 in 2 LGUs provided complete sets of PPEs to waste collectors
- 7 in 10 LGUs dispose of their face masks and other medical wastes together with municipal wastes.
- Most LGUs have no local policies/ordinances regarding the segregation of face masks and other medical wastes.
- Almost half of the LGUs store collected face masks and other medical wastes prior to final disposal for up to 8 days.

Data collection was done through two online surveys - one for the general public and another for the LGUs, a focus group discussion with stakeholders, and a review of related literature

Development of Environmental Education Professional Development Program/Course for Teachers, School Heads and Supervisors for the Department of Education - National Educators Academy of the Philippines Recognition System

In preparation for the EMB's application to the National Educators Academy of the Philippines Accreditation and Recognition System, the EEID has started the development of Professional Development Program/Course for Teachers, School Heads and Supervisors.

The program/courses will help the EMB in achieving the National Environmental Education Action Plan key result on capacity building of educators on Environmental Education aligned to the

development needs of educators in the Philippines.

The develop program/course on Environmental Education and Sustainable Development, Solid Waste Management and Water Quality Management will be used for teachers, school heads and supervisors' training next year.

Environmental Education Partnership with the Technical Education and Skills Development Authority

The EMB through the EEID has conducted exploratory meetings with the TESDA to encourage them to apply to the EMB Accreditation of Pollution Control Officers' Training Organization. The meetings also sought the assistance of TESDA in the enhancement of the existing EMB-prescribed PCO modules to address the needs of the small and medium enterprises (SMEs) as well as the development of competency standards, competency-based curriculum, learning materials, and competency assessment tools for operators and technicians of air pollution control facilities, wastewater treatment facilities and other environmental management-related programs.

Moments for Environment

With the directive of the DENR through the Strategic Communication and Initiatives Service, the EMB-EEID has participated as one of the Technical Working Group in the crafting of presentation guide for teachers and students. The program dubbed as Moments for Environment will focus on Wednesdays as EE learning sessions for the education sector.

ENVIRONMENTAL INFORMATION SECTION

A. Special Environmental Events

January – Zero Waste Month



As mandated by Presidential Proclamation no. 760, dated May 5, 2014, January is also known as the Zero Waste Month. This is also the 20th signing anniversary of the Republic Act 9003 or the Ecological Solid Waste Management Act of 2000 with the theme **“Bouncing Back from the Pandemic to a Greener and Healthier Environment.”**

Zero waste is an advocacy that promotes the designing and managing of products and processes to avoid and eliminate the volume and toxicity of waste and materials.

This January, amidst the pandemic and despite the increase of healthcare and special wastes, we urge everyone to keep in mind that this is not a set-back from our Zero Waste advocacy.

The Department of Environment and Natural Resources thru the Environmental Management Bureau aims to provide guidance on the proper management of all COVID-19 related health care waste in all health facilities, community quarantine units, and temporary treatment and monitoring facilities. The EMB thru the Solid Waste Management Division and the Environmental Education and Information Division will also continue the strengthening of its IEC campaign on the proper management of solid waste management as well as the campaign to a sustainable lifestyle.



Conducted the Zero Waste Trivia Contest all throughout the month of January. Winners are given promotional materials as prizes.

Due to the heightened threat of COVID-19 the Environmental Education and Information Division mainstreamed its information dissemination, environmental activities, and celebration using social media platforms, specifically EMB Central Office's Official Facebook Page. There has been a **significant increase of 81% in the EMB's Facebook Page followers/audience** from 32,600 last 2020 to 57, 870 in December 2021.

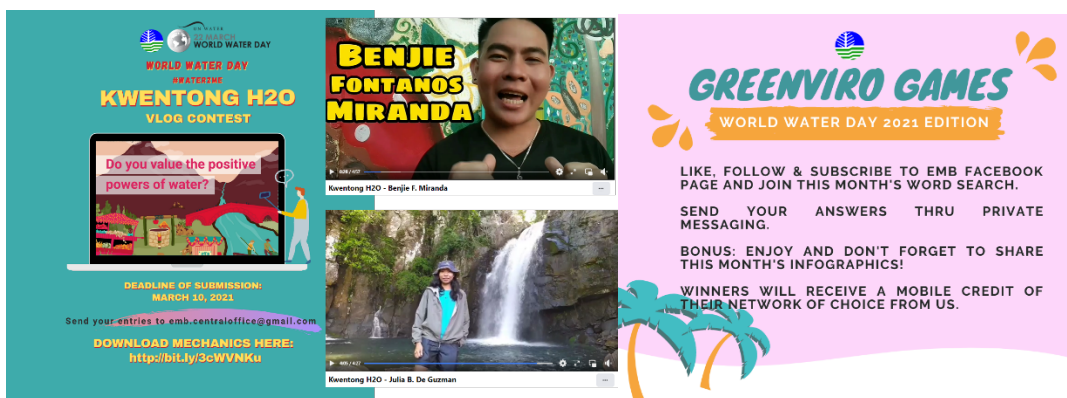
Philippine Water Week and World Water Day Celebration



From March 15-18, and March 22, 2021, the Environmental Management Bureau supported two events that focused on the importance of water: Philippine Water Week and World Water Day. This year's theme is about **Valuing Water**.

World Water Day celebrates water and raises awareness of the 2.2 billion people living without access to safe water. It is about taking action to tackle the global water crisis. The central narrative of 2021's campaign is designed to encourage people to contribute their stories, thoughts, and experiences on the value of water.

In support of the celebration, the Environmental Education and Information Division conducted the following activities:



Kwentong H2O Vlog Contest, Greenviro Games, and Trivia

Earth Day/Earth Month Celebration



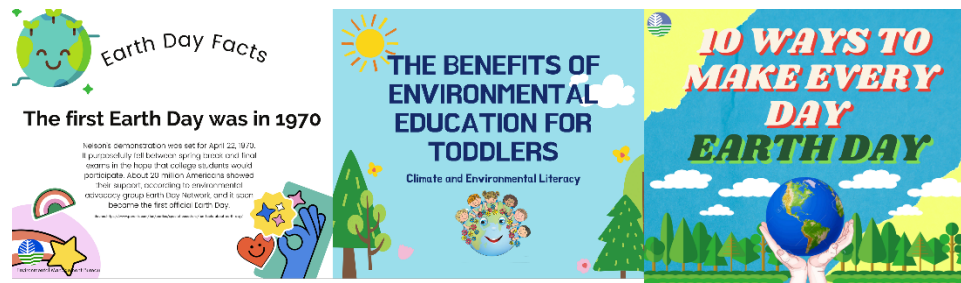
In the 51st celebration of Earth Day, the DENR-EMB Central Office spearheaded the campaign to **#RestoreOurEarth**.

The COVID-19 pandemic persists to this day, and we know that this global disruption has brought about several effects on the environment and climate. This includes the increased usage of face masks, face shields, and other personal protective equipment not only in hospitals but also in households and the workplace. This also led to quarantine protocols that aided in the rise of online shops that use plastic in their packaging. The continuous disinfecting of

roads, commercial, and residential areas also negatively affected non-targeted beneficial species which may create ecological imbalance (US National Library of Medicine).

Despite the negative effects of the virus, the DENR-EMB is one with the celebration of Earth Day and its theme to #RestoreOurEarth. We can make a difference in every industry, but that can only happen when we work together to help our Earth recover.

In support of Earth Day, the EEID conducted the following activities:



Earth Day Trivia/Infographics



E-Doodle Mo, Kid is a doodle art contest in solidarity of Earth Day 2021 celebration.

In line with Earth Day's theme, Restore Our Earth, this contest aims to inspire children ages 5-12 years old to cultivate their care for the Earth and the environment through art from the safety of their homes amidst the pandemic.



Mind Your Business is a webinar that would help MSMEs improve business enterprises' relationship with the environment thru responsible interaction with the planet to maintain natural resources and not jeopardize the ability for future generations to meet their needs. This webinar featured Mr. Joel Cruz, President and Chief Branding Officer of JLC Communications and Engr. Mary Therese Gonzales, EnP of EIA-EMB.

World Environment Day



There is no taking back time. All we can do is move forward. This World Environment Day and Philippine Environment Month, let us take action to restore the earth.

In the Philippines, to complement the celebration of World Environment Day, the month of June every year is also declared the Philippine Environment Month, by virtue of Presidential Proclamation No. 237, signed in 1988.

The EMB Central Office invites everyone to revive the natural world that sustains us all by imbibing the local theme, **Sama-samang Pagkilos, Sama-samang Paghilom, (Ikaw, Ako, Tayo ang Kalikasan).**

A united movement brings forth a ripple of change. Let us be at the helm of restoration. Empower yourself, reimagine a better world, and revive the strength of our rivers, oceans, and coasts and rethink our plastic consumption.

Together we can make change, together we can heal.

The activities conducted in support to this event are the following:



Stop the GIF Contest, Greenviro Games: Scavenger Hunt, and Marine Plastic infographics/trivia



In the past years, there is a rising number of MSME inclined to sustainable and ecofriendly living. This further influences communities and individuals in shifting to sustainable practices. United Nations Organization study shows that MSMEs in general, and women-led MSMEs, have been especially vulnerable to the impacts of the COVID-19 pandemic. However, the pandemic has also caused a dramatic shift in the business-as-usual approach and paved the

way for innovations, green growth, and sustainable development.

The presence of MSMEs is important in sustaining the communities especially women by providing essential services. They also help in providing alternatives source of livelihood for men and women who lost their jobs because of the pandemic and quarantine protocols. MSMEs served as engines driving local economies, and a key for post-pandemic recovery and rebuilding.

In this purpose, the EMB viewed MSMEs as important partners to continuously increase environmental awareness and promote climate action through their business, products and services, clients, and communities.

The Earthpreneur Award is a recognition award that aims to reward MSMEs initiatives and actions to promote sustainable living through MSMEs.



Aside from highlighting Filipino's artistic talent, this Digital Poster Making Contest 2021, aims to showcase various interpretations of environmentalism and encourage more youth to join the action to restore the earth.

Sama-samang Pagkilos, Sama-samang Paghilom also encompasses the challenges we encountered during these trying times. A united movement brings forth a ripple of change. Let us be at the helm of restoration.

All entries must be created with digital technology and presented in the following formats: Graphic Poster, Vector Art, 2D3D Digital Painting, Vector Art, 2D/3D Computer Graphics.

International Day of Clean Air for Blue Skies



The theme for this year's International Day of Clean Air for blue skies is "Healthy Air, Healthy Planet" which emphasizes the health effects of air pollution, particularly during the COVID-19 pandemic.

The Day aims to prioritize the need for healthy air for all while keeping conversations broad enough to encompass other critical issues such as climate change, human and planetary health as well as the

Sustainable Development Goals. It serves as a rallying call to action to collectively align efforts and claim the right to clean air.

Take action to reduce air pollution and bring a transformative change in our lifestyles. In support of the celebration, the EEID also posted trivia/infographics on the EMB Facebook Page.

International Coastal Clean Up (Sept. 16) and September as National Clean Up Month

The Montreal Protocol started life as a global agreement to protect the ozone layer, a job it has done well, making it one of the most successful environmental agreements to date.

A united global effort to phase out ozone-depleting substances means that today, the hole in the ozone layer is healing, in turn protecting human health, economies and ecosystems. But, as this year's World Ozone Day seeks to highlight, the Montreal Protocol does so much more – such as slowing climate change and helping to boost energy efficiency in the cooling sector, which contributes to food security.



The theme for this year is **Montreal Protocol – keeping us, our food and vaccines cool.**

International Coastal Clean Up (Sept. 16) and September as National Clean Up Month



Presidential Proclamation No. 470 series of 2003 declares the third Saturday of September of each year as the International Coastal Cleanup (ICC) Day in observance of the Global Coastal Clean-up celebrations.

International Coastal Cleanup is the largest annual gathering of volunteers dedicated to cleaning our shores, rivers, waterways and underwater dive sites to remove trash and record information on the debris collected.

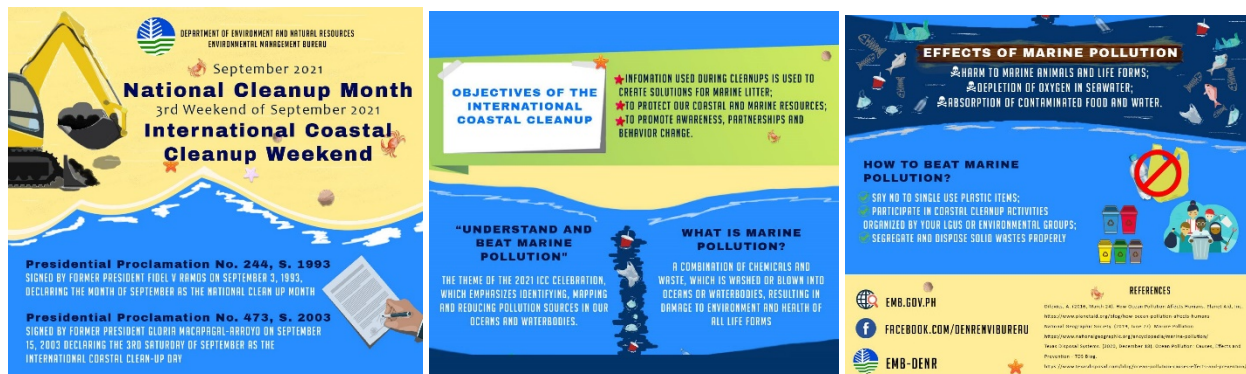
Activities conducted for these environmental events are the following:



The 16th of September 2021 marks the 36th Anniversary Celebration of the Montreal Protocol on Substances that Deplete the Ozone Layer, a Multilateral Environmental Agreement (MEA) created on 16 September 1987. Member countries of the Montreal Protocol committed to gradually reduce and eventually eliminate production and consumption of ozone-depleting substances (ODS) following a phase-out schedule for different chemicals. It

is considered as the most successful international agreement to date because all 197 countries of the world have ratified the Protocol. The theme for this year's celebration is Montreal Protocol – keeping us, our food and vaccines cool.

In line with this, the Department of Environment and Natural Resource, the Environmental Management Bureau-Philippine Ozone Desk and the United Nations Industrial Development Organization would like to cordially invite you to attend the upcoming DENR-UNIDO WEBINAR SESSION: “OZONE PROTECTION, CLIMATE ACTION AND SDGs”.



National Clean Up Month and International Coastal Cleanup Weekend infographics



#GreenViroGames Quiz Bee Challenge is back on its second year with the theme: Ozone to Climate. This virtual quiz bee supports the celebration of the International Day for the Preservation of the Ozone Layer and aims to increase the youth's awareness on ozone protection and preservation.

World Environmental Health Day



In celebration of World Environmental Health Day, the EMB-EEID held a webinar entitled, K-onnect²: Kalikasan at Kalusugan Para sa Likas-Kayang Kinabukasan on September 28, 2021.

The webinar was livestreamed on Zoom and Facebook Live and was joined by our experts Dr. Geminn Louis C. Apostol, MD, MBA, Environmental Health Specialist Center for Research and Innovation of the Ateneo School of Medicine and Public Health and Mr. Jon Alfonso P. Horvidalla, Coastal Resources and Ecotourism Research, Development and Extension Center-ERDB DENR.

International E-Waste Day



October 14 is the International E-Waste Day.

E-waste is any kind of discarded electronic devices, such as cellphones, computers, keyboards, game consoles, TVs, and households. Tossing these things out in the open can cause hazardous and toxic chemicals to seep into the environment.

This growing crisis poses a threat to our environmental wellbeing. That being said, toxic waste can contaminate water and soil, affect our health, and contribute to carbon emissions.

This year's International E-Waste Day will focus on the crucial part each of us has in making circularity a reality for e-products, with the theme "Consumer is the key to Circular Economy!"

International Lead Poisoning Prevention Week



especially in relation to children. A particular focus of the campaign week is to urge further action by governments, industry and consumers to eliminate lead paint.

International Lead Poisoning Prevention Week is an initiative of the Lead Paint Alliance, and takes place every year during the last week of October. The purpose of the campaign week is to raise awareness of the need for action to address the human health effects of exposure to lead,

Are we safe from Lead Poisoning?

Join us in celebrating International Lead Poisoning Prevention Week thru our webinar #kNowLEAD, a lead poisoning prevention webinar.

Learn from our experts Dr. Geminn Louis C. Apostol, MD, MBA from the Ateneo School of Medicine and Public Health, and Engr. Jose Joel Maleon, Sr. Environmental Management Specialist of the Chemical Management Section-DENR EMB about the health impacts of lead exposure and how to prevent them.



November – National Clean Air Month/National Environmental Awareness Month and Climate Change Consciousness Week



This November, the DENR-EMB Central Office invites everyone to join our triple environmental celebration: Environmental Awareness Month, National Clean Air Month, and Climate Change Consciousness Week. This month's theme is "Nurture Nature for a Sustainable Future".

When we were young, we were taught to be compassionate, sympathetic, and kind, not just to our inner circle of friends and families, but to others as well. This November, let us reconnect with our roots and extend our nurturing nature to our environment and create a sustainable future for the next generation.

The **Luntiang Puso Awarding Ceremony** aims to honor and recognize the Youth Sector and Micro, Small and Medium Enterprises for their outstanding contribution in environmental management and protection and in promoting sustainable living. The ceremony will also feature the winners of the various environmental education contests conducted by the Bureau such as: **Greenvir Games Quiz Bee 2021**, **Digital Poster Making Contest**, **Pagkaing Lokal Plant-Based Recipe Contest: Healthy Food from Scrap**, **Earthpreneur Award 2021** and **2021 EMB Youth Envi Icon**.

Support to Solid Waste Management



Promotion of the Webinar on Household Healthcare Wastes and Special Waste Management in partnership with Engr. Gerardo Mogol of the Department of Health held thru Zoom last January 8, 2021 attended by various stakeholders.



Produced and promoted the Waste-To-Energy Guidelines Webinar Series.

Support to Air Quality Management



Launching of the Online Permitting and Monitoring System (OPMS) Permit to Operate (PTO) last August 18, 2021. Aside from hosting the event, the EEID also produced and released a walkthrough video (AVP) of the OPMS for PTO. The video may be viewed on the EMB Facebook Page and its Youtube channel.



A Study Presentation: Air Quality Impact of the Jeepney Modernization Program

Support to COVID 19 Awareness Campaign



This World Environmental Healthy Day #WEHD2021, let us put to spotlight the status of generated healthcare waste in the Philippines. Healthcare wastes have increased tremendously during COVID-19 pandemic. Let us be conscious on how we dispose of our face masks, face shields, and other personal protective equipment.

- Seventy-eight (78) speech and twenty (20) press releases were done.
- Monthly monitoring of regional website and monthly updating of EMB – Central Office website

ENVIRONMENTAL DOCUMENTATION AND INVENTORY SECTION

GAME CHANGER COMMUNITIES AWARD EMB NATIONAL CHAMPIONS ON ENVIRONMENTAL MANAGEMENT



Launched by the Environmental Management Bureau of the Department of Environment and Natural resources (EMB-DENR) in April 2021, the EMB Regional Champion on Environmental Management or the Game Changer Communities Award aims to recognize regional champions on solid waste, air quality, water quality management, and climate change mitigation, compile and update good practices on ENR management database of EMB, and to further encourage innovative projects, programs, and activities on environmental management. After the nomination period, the EMB received a total

of 46 entries. The Game Changer Communities Awarding Ceremony held last September 1, 2021, via Zoom app and Facebook Live. The winners are San Carlos City Environmental Management Office (1st prize), Provincial Government of South Cotabato (2nd prize), City Government of Santiago, Isabela and 7 consolation prize winners.

“BOUNCE BACK GREENER: ONLINE FORUM ON ECO-FRIENDLY PACKAGING SOLUTIONS”

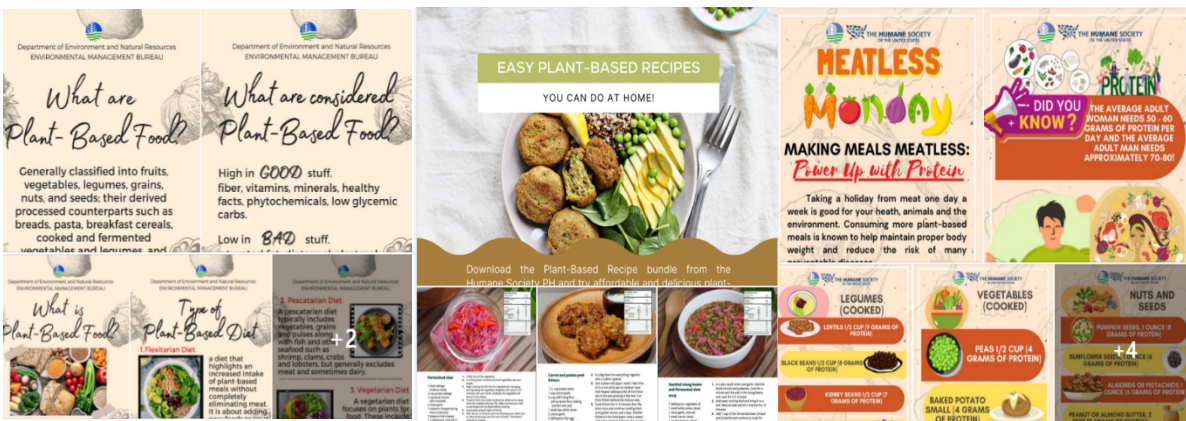
In celebration of Philippine Environment Month this June the Environmental Management Bureau of the Department of Environment and Natural Resources conducts a “Bounce Back Greener: Online Forum on Ecofriendly Packaging Solutions” held last June 22, 2021, via Zoom and Facebook Live. This online forum aimed to provide learning opportunities in response to the alarming rate of plastic waste generation from online delivery services in the new normal.

The resource speakers were Ms. Francheska Zaide -Founder of Orera Technology, Ms. Ren Santos - Founder & CEO of Fifth Express, Ms. Marge Orpilla - Head of Marketing and Communications and Ms.



Domique Sevilla- Founder & CEO of EcoNest PH shared their experiences and expertise on sustainable packaging solutions. Our invited panel of reactors were from EMB Solid Waste Management Division, DENR-Climate Change Service and Go Negosyo Entrepreneurship Coaching, to also discuss concerns and challenges on sustainable packaging. This online forum attended by 118 participants.

“SERIES OF PLANT-BASED INFOGRAPHICS”



In support of the Philippine Nutrition Month, Environmental management Bureau - DENR produced series of infographics about Plant-Based Solutions for Climate Action. Eating healthy and helping alleviate the effects of climate change. “What are the plant-based food?, Easy Plant-based recipes and Meatless Monday infographics posted in EMB facebook page.

“PLANT BASED FOOD WEBINAR”



In support of Nutrition Month, Environmental management Bureau – DENR, conducts a webinar about Plant based food with the objective to promote plant-based solutions for climate action. It aimed to give importance on eating healthy at the same time helping alleviate the effects of climate change. The resource speakers are Mr. Jake Brandon Andal, RND and Asst. Prof. Luz Felicidad Callanta, RND, MSN, plant-based nutritionists of Human Society International. The webinar held last July 14, 2021, via Zoom app and Facebook live. This webinar was attended by 98 participants.

“#UOTD ULAM OF THE DAY FOOD PHOTO CONTEST”

In celebration of Nutrition Month, Environmental Management Bureau – DENR launched a contest “#UOTD ULAM OF THE DAY FOOD PHOTO CONTEST” last July 2021. This contest aimed to promote plant-based meals at an affordable price point, highlight the contribution of food production and consumption to climate change, and inspire behavior change in the stakeholders’ diet. After the submission period, the EMB received 25 entries. The winners announced thru Facebook page of EMB last September 2021. The Top 5 winners received cash prize of PHP 3,000 and PHP2,000 for the 2 People’s Choice Award winners.



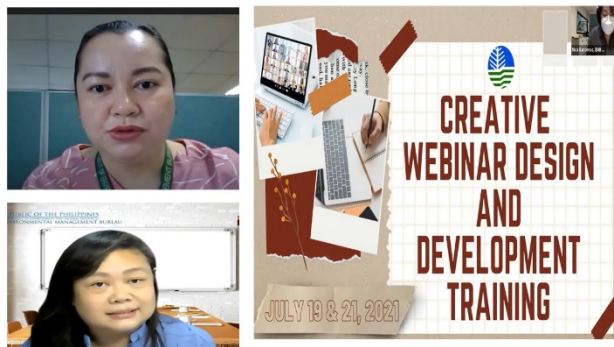
“2nd PAGKAING LOKAL, PLANT-BASED RECIPE CONTEST HEALTHY FOOD FROM SCRAP: PLANT-BASED FOOD LEFTOVERS, AND VEGETABLE SCRAPS”



food/meals for their family as well as for livelihood. The EMB received 38 entries. The winners announced in the Luntiang Puso Awarding Ceremony last November 22, 2021, via Zoom app and Facebook live.

“CREATIVE WEBINAR DESIGN AND DEVELOPMENT TRAINING COURSE FOR THE ENVIRONMENTAL MANAGEMENT BUREAU: HOW TO CREATE AND FACILITATE YOUR OWN WEBINAR SERIES.”

This training’s objectives were to become aware of the necessary steps in running a webinar based on the various perspectives of a program designer, content creator, host and technical manager, to be introduced on the latest software applications necessary to run a successful webinar and to gain confidence in skills of webinar concept development, webinar hosting and technical support held last July 19 and 21, 2021, via Zoom app and the participants of this webinar are The Environmental Management Bureau Regional and Central Offices.



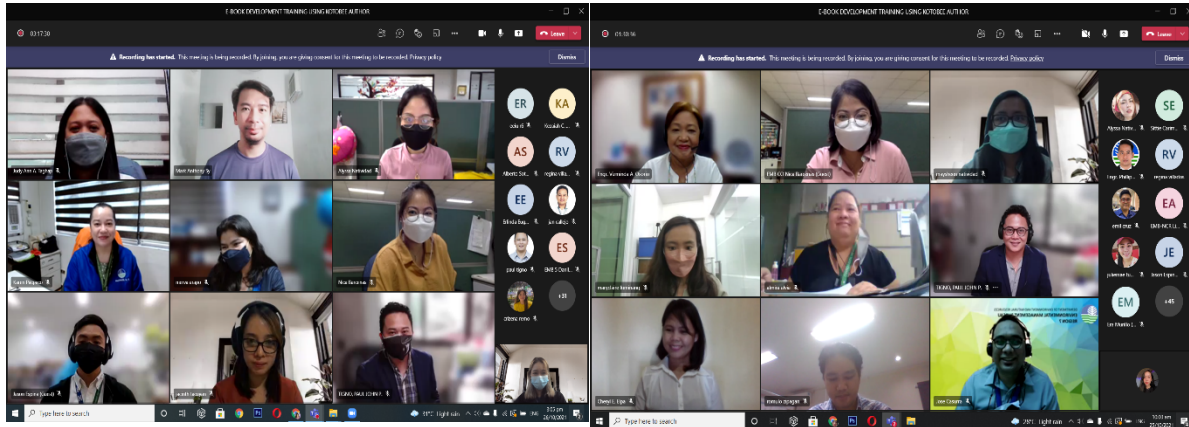
“TECH TO PROTECT GREEN APPS FOR SUSTAINABLE LIVING”



Zoom app and Facebook

Environmental Management Bureau – DENR conducts two-part webinar series about Tech to Protect Green Apps for Sustainable Living. This webinar aimed to maximize the use of digital tools (social media) and technology (apps) in strengthening the environmental advocacy. This limited webinar series will also feature the positive impact of digital technology on environmental management and protection. The resource speakers were Ms. Allison Tan of The Plaf, a social enterprise that develops a replicable solution to fight marine plastic pollution in emerging countries. Ms. Melody N. Melo-Rijk of WWF-Philippines, SoilMate: An IT Solution on Food Waste Diversion through Composting. Mr. Benjoe Rivera Vidal of Trash Cash PH, a mobile application that will orient, educate, and incentivize Filipinos to know the value and impact of their trash. By simply scanning their trash, it will analyze and display the value of it. This webinar held last August 24, 2021, via Live, attended by 196 participants.

“TRAINING ON ELECTRONIC BOOK DEVELOPMENT FOR EMB CENTRAL AND REGIONAL ENVIRONMENTAL EDUCATION AND INFORMATION OFFICERS”



Environmental Education and Information Division of Environmental management Bureau - DENR conducted a two-day Training on Electronic Book Development For EMB Central And Regional Environmental Education and Information officers last October 25-26, 2021, via Microsoft Teams. This training aimed to present Ebook format and design as a digital tool for a more engaging IEC materials and to capacitate Central and Regional Information Officers in developing electronic book for environmental awareness IEC Campaign. The resource speaker for this training was Mr. Mark Anthony C. Sy – Head of ICTS-Educational Technology Unit of Department of Education.

“AUDIO VISUAL PRESENTATIONS”



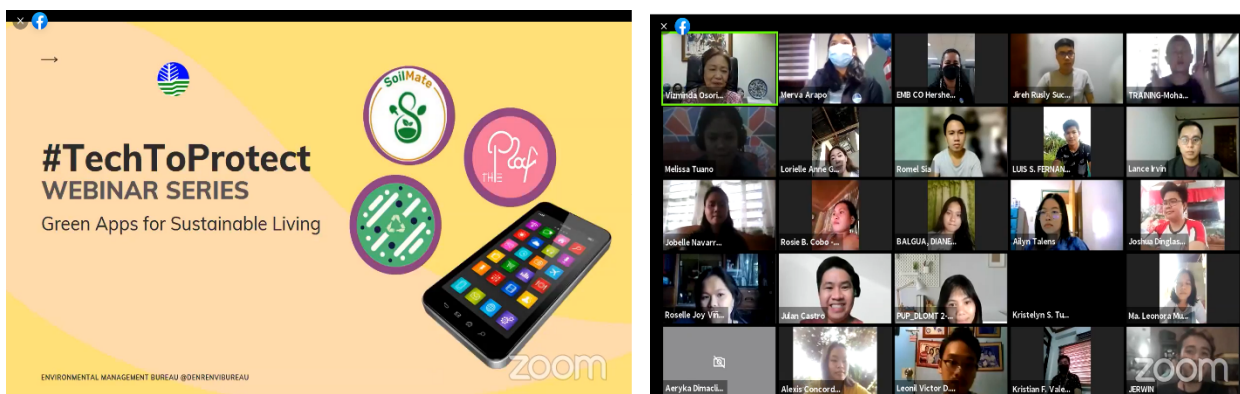
Environmental Education and Information Division of Environmental management Bureau produced AVPs in support to the EMB mandates, Celebration of Zero Waste Month, Women's Month, Earth Day celebration, Philippine Environment Month, World ozone Day, Youth Program of EMB, National Environment awareness Month.

List of AVPs produced by EEID:

- Women's Day AVP
- Zero Waste Month AVP
- Eco-Friendly Packaging AVP
- Youth Icon 2021 AVP
- EMB Opening Billboard
- EMB website AVP
- OPMS and PTO AVP
- Youth Envi Icon Awarding AVP
- WTE Series AVP
- Game Changer Awarding AVP
- Earthpreneur Awarding AVP
- Greenviro Game – Quizbee Awarding AVP
- Battle for Manila Bay AVP
- EMB – ERLSD Function
- EMB – EQMS Function

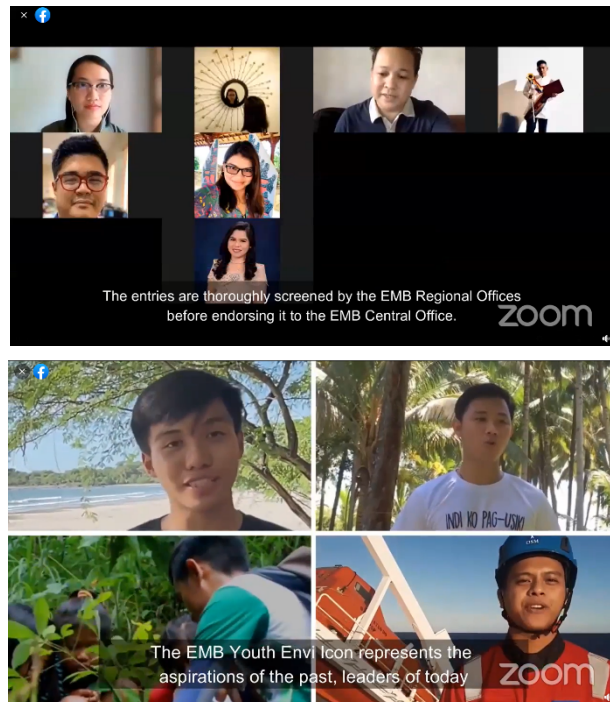
YOUTH PROGRAM

- **#Techtoprotect: Taking Advantage of Digital Technology for a Clean and Green Environment Webinar Series**



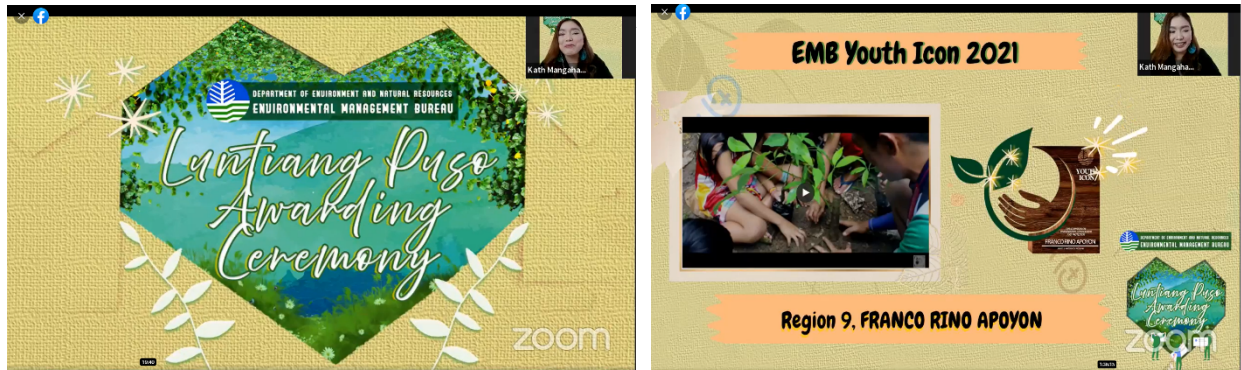
- In support to the celebration of International Youth Day and to strengthen the Bureau's advocacy in empowering youth leaders in the country, the Environmental Management Bureau conducted a series of webinar entitled “#TechtoProtect: Taking Advantage of Digital Technology for a Clean and Green Environment” on August 17 and 24, 2021 thru Zoom and Facebook Live.
- The webinar series aimed to encourage the use of digital tools and technology in strengthening environmental advocacy. It featured the use and positive impact of digital technology to environmental management and protection. In this way, the EMB promoted that digitalization may not be the lone answer to our environmental problems but along with behavior change it can be an important part of the solution.
- The first part highlighted the use of social media for environmental advocacy while the second part presented green mobile applications for sustainable living. About 250 youth were engaged during the webinar series.

2021 Youth Envi Icon: Recognition of Youth Environmental Champions



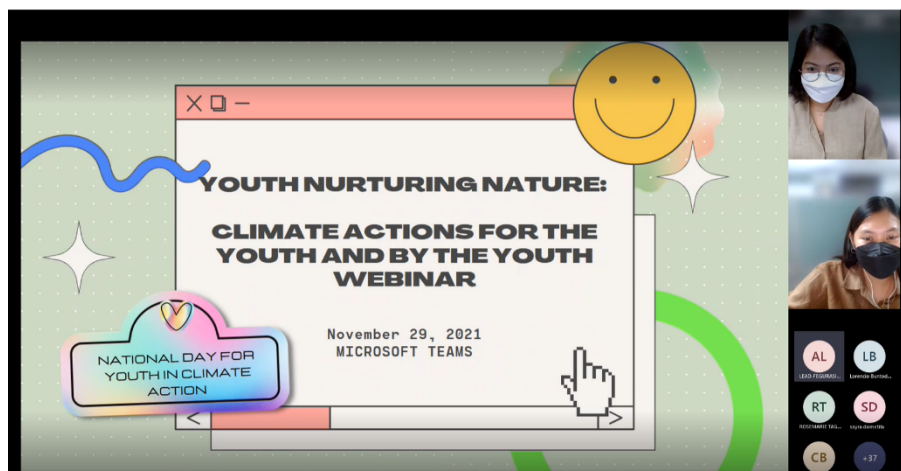
- The EMB through the EEID the EEID continued to acknowledge the vital role our youth plays in society through the second run the “Youth Envi Icon”, Recognition of Youth Environmental Champions. The activity aimed to: (1) recognize youth with outstanding contribution in environmental management and protection; (2) highlight youth efforts, green initiatives and contribution in environmental conservation; and (3) encourage and inspire more youth to be leaders and partners in environmental protection and management.
- The Environmental Education and Information Division received 40 nominees from the EMB Regional Offices with projects focused on water quality management, solid waste management, climate change, environmental education and environmental policy formulation. From 40 nominees, 5 youth champions were awarded – Clarence Almoite, Steven Angelo, Aprille Roselle Vince Juanillo, Franco Rino Apoyon, and Raxiey Adolfo.

Luntiang Puso Awarding Ceremony



- In support to the annual celebration of the National Environmental Awareness Month, the Climate Change Consciousness Week, and the National Day for Youth in Climate Action, the Environmental Management Bureau held the Luntiang Puso Awarding Ceremony on November 22, 2021 thru Zoom.
- Luntiang Puso is the overall identified theme for various efforts towards environmental education and sustainable development. It conveys the message that love towards our planet Earth and local cultural heritage should be in the heart of every Filipino. In this event, the EMB showed appreciation for the many ways environmentalism is being embodied by their partners and stakeholders.
- Recognized during the ceremony were the Youth Sector and Micro, Small and Medium Enterprises for their outstanding contribution in environmental management and protection and in promoting sustainable living. The ceremony also featured the winners of the various environmental education contests conducted by the Bureau to promote environmental awareness, show the love for the environment, and to take green actions.

Nurture Nature for a Sustainable Future: Webinar on Climate Action for the Youth and by the Youth



- The EMB concluded the celebration of the National Environmental Awareness Month and the National Climate Change Consciousness Week through the webinar Youth Nurturing Nature: Climate Actions for The Youth and by the Youth on November 29, 2021 thru MS Teams.
- With the discussion on climate science, the various responses to the climate crisis and youth-led climate actions, this event appealed to the youth sector for them to effectively communicate the concepts of climate change adaptation and mitigation to others, to encourage them to take climate actions through adoption of climate-resilient and climate-smart lifestyle and to engage them to be leaders of and partners for the environment.

GENDER AND DEVELOPMENT

“SERIES OF GENDER AND DEVELOPMENT INFOGRAPHICS IN CELEBRATION OF WOMEN’S MONTH”



In support for the celebration of Women's Month, Environmental management Bureau – DENR produced series of infographics about Gender and development – Women for their contribution to environmental protection.

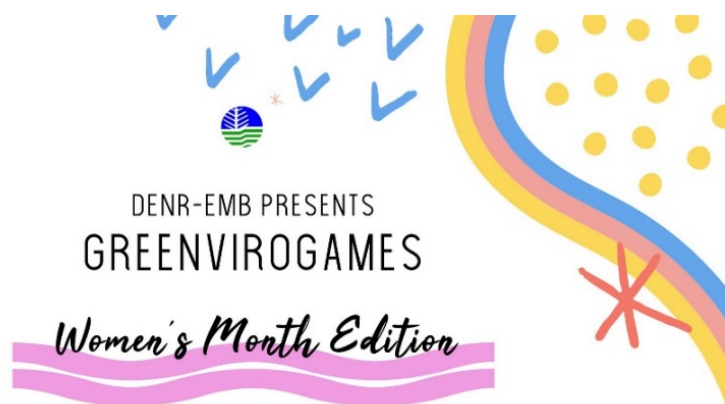
“DENR-EMB CENTRAL OFFICE WEBSITE LAUNCHES ITS GENDER AND DEVELOPMENT CORNER”



In celebration of Women's Month and International Women's Day, the EMB Central Office launches its Gender and Development Corner in the official website. In October 21, 2011, the Memorandum Circular No. 2011 was released to address all Government Departments including their attached agencies, offices, bureaus, State Universities and Colleges (SUCs), Government-Owned and Controlled Corporations (GOCCs) and all other government instrumentalities as their guidelines and procedures for the establishment, strengthening and institutionalization of the GAD Focal Point System (GFPS). As part of Gender and Development mainstreaming, visitors of the DENR-EMB Central Office Website can now interact with the following features: Gender and Development (GAD) Report from different EMB Regional Offices, GAD Laws and Policies, GAD Focal Point System, GAD Plans and Budgets, GAD Information, Education, and Communication Materials, The website also contains news, announcements, and GAD trivia.

In addition to the website, the EMB-DENR also revamped the GAD Corner found in every bulletin in the Office's buildings.

“GREENVIROGAMES- WOMEN'S MONTH EDITION”



Environmental Education and Information Division conducted Greenvirogames – Womens Month Edition In support for the celebration of Women's Month. This Greenvirogames was posted in EMB Facebook Page.

“ASSESSMENT-CUMPLANNING WORKSHOP FOR EMB CENTRAL AND REGIONAL GAD FOCAL POINTS AND PLANNING STAFF ON FEBRUARY 23-24, 2021 AND AUGUST 10-11, 2021”



In support to the implementation of Gender and Development (GAD) program, EMB-Environmental Education and Information Division as GAD Secretariat conducted an Assessment-cum-Planning Workshop for EMB Central and Regional GAD focal points on February 23-24, 2021 and August 10-11, 2021 thru MS Teams. The participants were EMB Regional GAD Focal Points and Planning Staff Members, EMB GAD Secretariat (EMB-Environmental Education and Information Division) and EMB Central Offices GAD Committee Members. The resource speaker was Ms. Katherine Vinegas – PCW, GAD Resource Pool. The EMB Central and Regional focal points presented their GMEF results. Plans and Budgets for year 2022.

“FROM VACANT TO VIBRANT: URBAN GARDENING WEBINAR FT HYDROPONICS, AQUAPONICS, AND SQUARE-FOOT GARDENING”

This event was part of the Environmental Management Bureau's celebration of Women's Month with the theme Juana Laban sa Pandemya: Kaya!. This webinar From Vacant to Vibrant: Urban Gardening Webinar Ft Hydroponics, Aquaponics, And Square-Foot Gardening also aims to inspire and empower participants to successfully design and implement sustainable urban gardening in their homes or in their communities held last April 13, 2021, via Zoom app and Facebook live. The resource speakers are Mr. Jomar Tabor Agricultural Training Institute of the Department of Agriculture demonstrated an online training-workshop on basics of urban gardening, how to plant using recycled materials, and square foot gardening and Dr. Chito Sace of Agricultural Training Institute of the Department of Agriculture demonstrated an online



training- workshop the Hydroponics and aquaponics. This webinar attended by 256 participants.

“Community Livelihood Training on Upcycling”

This is one of EMB’s activities in celebration of Environment Month with a theme, Sama Samang Pagkilos, Sama Samang Paghilom-Ikaw, Ako, Tayo ang Kalikasan, that aimed to encourage everyone to do their part in managing household solid waste and to provide an online training with demonstration on Upcycling single use plastics to marketable products. This livelihood online training focused on the Upcycling single use plastics to marketable products. Its main objective is to raise awareness and solve some issues of plastic waste pollution and being able to provide livelihood to the community in the process. Our resource person was Idr. Wilhelmina ‘Willie’ Garcia, the Founder of Junk Not a Philippines based furniture company that is converting plastic waste into cool furniture pieces and table accents. The participants of this training are Women’s groups, barangay youth leaders, barangay officials of Barangay San Agustin, Novaliches, Quezon City that held last June 8, 2021 (Tuesday), June 15, 2021 (Tuesday) and June 22, 2021 (Tuesday) via Zoom app.

“SPECIAL PRIZE FOR WOMEN EMPOWERMENT ON EARTHPRENEUR AWARD: RECOGNITION AWARD FOR OUTSTANDING MICRO, SMALL AND MEDIUM ENTERPRISES IN PROMOTING SUSTAINABLE LIVING”



In support for the Sustainable action, Environmental Management Bureau launched the Earthpreneur Award: Recognition Award for Outstanding Micro, Small and Medium Enterprises in Promoting Sustainable Living last June 2021. The objectives of this award are to recognize MSMEs initiatives and actions to promote sustainable living through their businesses, to further encourage enterprises/businesses to contribute to promoting sustainability and ecofriendly practices, to acknowledge the role of MSMEs in community building, women economic empowerment and economic recovery during/after the Covid-19 pandemic. The Gender and development program of EMB-DENR partnered with Philippine Commission on Women to judge the 15 participants to give special prizes to Three winners of Women Empowerment Initiatives Special Award with a cash prize of Php 20,000.00 and a plaque of recognition. The winners announced in the Luntiang Puso Awarding Ceremony last November 22, 2021, via Zoom app and Facebook live.

PUT WASTE IN THE RIGHT PLACE: AN ECOFRIENDLY OPTION FOR USED COOKING OIL”

Gender and Development of Environmental management Bureau – DENR conducts a webinar about “Put Waste in the Right Place: An Ecofriendly Option for Used Cooking Oil”. Learn how to dispose your hazardous household waste from Engr. Geri-Geronimo Sañez, Chief of the Hazardous Waste Management Section Environmental Quality Management Division-EMB and see the best practices of the Marikina City LGU on household hazwaste through a presentation by Mr. Oliver Villamena, City Environmental Officer, CEMO Marikina. Mr. Jett Severa and Mr. Jerome Dueñas of Renergy System Inc will also share their Community Livelihood Training on Used Cooking Oil via Zoom app and Facebook Live last October 12, 2021. This webinar was attended by 563 participants.

“CRACKING THE MUSHROOM FARMING SECRET WEBINAR”



Gender and Development of Environmental management Bureau – DENR conducts a webinar about “Cracking the Mushroom Farming Secret”. The objectives of this webinar are to inform community leaders on the basic ways and techniques of mushroom farming and how it can contribute to a clean and healthy environment and to provide knowledge on how mushroom farming can provide a source of livelihood and sustainable income, with the resource speaker Ms. Hazel Pacis of Department of Agriculture- Bureau of Plant and Industries via Zoom app and Facebook live last November 23, 2021. This webinar was attended by 116 participants.