



Project Implementation Report

(1 July 2022 – 30 June 2023)

Project Title:	Implementation of PCB Management Programs for Electric Cooperatives and Safe E-wastes Management
GEF ID:	9078
UNIDO ID:	150048
GEF Replenishment Cycle:	GEF-6
Country(ies):	Philippines
Region:	SA - Southeast Asia
GEF Focal Area:	Chemicals and Waste (CW)
Integrated Approach Pilot (IAP) Programs¹:	N/A
Stand-alone / Child Project:	N/A
Implementing Department/Division:	ENV / IPM
Co-Implementing Agency:	N/A
Executing Agency(ies):	Department of Environment and Natural Resources – Environmental Management Bureau (DENR-EMB Lead Executing Agency); National Electrification Administration (NEA); Natural Resources Development Corporation (NRDC)
Project Type:	Full-Sized Project (FSP)
Project Duration:	60 months
Extension(s):	Two (2)
GEF Project Financing:	6,200,000.00 \$
Agency Fee:	589,000 \$
Co-financing Amount:	35,868,712 \$
Date of CEO Endorsement/Approval:	12/21/2016
UNIDO Approval Date:	1/16/2027
Actual Implementation Start:	1/27/2017

¹ Only for **GEF-6 projects**, if applicable

Cumulative disbursement as of 30 June 2023:	\$ 5,495,048.85
Mid-term Review (MTR) Date:	10/1/2020
Original Project Completion Date:	1/27/2022
Project Completion Date as reported in FY22:	1/27/2023
Current SAP Completion Date:	1/31/2024
Expected Project Completion Date:	1/31/2024
Expected Terminal Evaluation (TE) Date:	3/31/2023
Expected Financial Closure Date:	1/31/2024
UNIDO Project Manager²:	Ms. Carmela CENTENO

I. Brief description of project and status overview

Project Objective
<p>The objective of the project is the protection of human health and environment through sound management of PCBs and PBDEs in e-wastes. The project grant will support segregation of PBDE-contaminated plastic from the general e-waste stream, and its disposal. It also aims to subsidize the disposal of PCBs from rural cooperatives and to further enhance the suitability of the existing facility to treat all PCB-contaminated materials including solids and metallic parts. Transformer replacement program will be financed through a loan package from DBP. Overall, the project is expected to achieve effective management of POPs-PBDE from WEEE, and PCB wastes and PCB-contaminated equipment assisting the Philippines to meet its obligation to the Stockholm Convention on POPs.</p>
Baseline
<p>The Philippines is a Party to the Stockholm Convention on POPs and is obliged to comply with the targets designed to reduce or eliminate releases from POPs. The Philippines, through the DENR has developed the National Implementation Plan (NIP) in 2006 and updated the NIP in 2014. In the updated NIP 2014, priority action plans identified include the need for the development and implementation of incentives for rural electric cooperatives to comply with the phase out of PCBs and the management of PBDEs from WEEE stream in the country.</p> <p>The project has three major components, namely: Component 1 - Management of POPs in Waste Electrical and Electronic Equipment (WEEE), Component 2- Sound management of PCB-contaminated equipment, PCB wastes and stockpiles from electric cooperatives and Component 3- Institutional Strengthening, capacity building and awareness raising. The baseline situation is as follows:</p> <p>A. E-waste management</p> <p>The DENR has existing policies on hazardous waste management, wherein E waste (M506 and M507) are classified as hazardous waste, however, there are no specific policies with POPs – related provisions, nor guidelines on the preparation of “WEEE Management Plans”. Furthermore, while the formal sector handling e-wastes are regulated by the government, there are no clear regulations on the informal sector. With the lack of specific policies on e-waste management and lack of technologies for the destruction of e waste with possible contamination of POPs-PBDEs, current practices in the informal recycling sector include dumping of plastic components of e-waste, dumping of the glass part of cathode ray tube (CRT) monitors, processing of integrated circuit boards from electronic waste (e-waste) with proper PPEs and the lack of environmental awareness on the hazards of e-waste processing is also apparent in the informal sector.</p> <p>B. PCB management</p>

² Person responsible for report content

The existing infrastructure on PCB management includes sound regulatory framework and the Non Com POPs facility which was established through a previous UNIDO project (GEF ID 2329) “Global Programmed to Demonstrate the 2 Person responsible for report content3 Viability and Removal of Barriers that Impede Adoption and Successful Implementation of Available, Non-combustion Technologies for Destroying Persistent Organic Pollutants (POPs)”. With the existing DENR policies, all owners of PCBs are required to submit a PCB Management Plan. The facility is under the management of the DENR corporate arm – Natural Resources Development Corporation (NRDC), and has the capacity to treat PCB oil but would need to be upgraded to be able to treat transformers. In the 2014 updated NIP, one of the identified priorities is the development and implementation of incentives for rural electric cooperatives (EC) to comply with the phased out of PCBs. During the PPG phase, 26/116 Electric Cooperatives in the country submitted an approved PCB Management Plan with data of 852 tons of PCB equipment and PCB oil safeguarded in their premises.

C. Capacity Building and Awareness Raising Activities

There are limited awareness and technical capacity in both e-waste and PCB sectors, thus, the need for a more systematic and wider implementation of training and awareness raising initiatives are needed. On the e-waste component, the informal sector lack technical capacity for the ESM of potentially POPs contaminated e-wastes, and there is no existing knowledge management system in place for e wastes. It was also reported that although there is awareness on POPs on the level of academe and some institutions, there is still lack of awareness on POPs – PBDE, HBB and PFOs among waste recyclers, and the general populace.

Please refer to the explanatory note at the end of the document and select corresponding ratings for the current reporting period, i.e. FY23. Please also provide a short justification for the selected ratings for FY23.

In view of the GEF Secretariat’s intent to start following the ability of projects to adopt the concept of adaptive management³, Agencies are expected to closely monitor changes that occur from year to year and demonstrate that they are not simply implementing plans but modifying them in response to developments and circumstances or understanding. In order to facilitate with this assessment, please introduce the ratings as reported in the previous reporting cycle, i.e. FY22, in the last column.

Overall Ratings ⁴	FY23	FY22
Global Environmental Objectives (GEOs) / Development Objectives (DOs) Rating	<i>Moderately Satisfactory (MS)</i>	<i>Moderately Satisfactory (MS)</i>
<p>Similar with FY 22 reporting period, the e-waste component has achieved most of its GEOs. The PCB component has achieved progress although very minimal, as it still faces political and administrative challenges that resulted into the delay of the GEOs.</p> <p>For component 1, e waste management, the project has already achieved the GEB of 550 kg PBDE coming from 50,000 cathode ray tubes (CRTs) and 816 tons of glass containing Pb. The XRF spectrometer was used to identify brominated plastic casings coming from the CRTs and a limit of higher than 1000 ppm bromine readings was established as the cut off for the determination of PBDE contaminated plastic casings. The project target GEB is 1.15 tons of PBDE and an associated benefit identified is 225 kg of glass containing Pb.</p> <p>For component 2, PCB component, the project has already achieved a GEB of 82.4 tons from 2020. The process of disposing PCB contaminated equipment requires the use of treated PCB oil, thus, the Non Com POPs facility has to have a sufficient quantity of treated PCB oil to decontaminate distribution transformers. Further, the dismantled distribution transformers were also taken into account. The project target is a a GEB of 600 tons of PCB oil and PCB containing equipment.</p>		
Implementation Progress (IP) Rating	<i>Moderately Satisfactory (MS)</i>	<i>Moderately Satisfactory (MS)</i>
Implementation progress, similar with FY 22, is rated as MS due to the delays suffered under the PCB component of the project.		

³ Adaptive management in the context of an intentional approach to decision-making and adjustments in response to new available information, evidence gathered from monitoring, evaluation or research, and experience acquired from implementation, to ensure that the goals of the activity are being reached efficiently

⁴ Please refer to the explanatory note at the end of the document and assure that the indicated ratings correspond to the narrative of the report

Overall Risk Rating	Moderate Risk (M)	Moderate Risk (M)
A rating of M is given for this reporting period as project stakeholders and proponents still struggle with the continuation of the PCB disposal operations in the country.		

II. Targeted results and progress to-date

Please describe the progress made in achieving the outputs against key performance indicator's targets in the project's **M&E Plan/Log-Frame at the time of CEO Endorsement/Approval**. Please expand the table as needed.

Please fill in the below table or make a reference to any supporting documents that may be submitted as annexes to this report.

Project Strategy	KPIs/Indicators	Baseline	Target level	Progress in FY23
Component 1. Management of POPs in Waste Electrical and Electronics Equipment (WEEE)				
<i>Outcome 1 Strengthened legislation and institutional capacity in implementing PBDE action plans</i>				
Output 1.1: Rationalized National Policy on WEEE Management formulated including incentive packages and Extended Producers' Responsibility (EPR) initiatives.	<p>Number of expanded/strengthened regulation incorporating quantitative criteria for POPs in WEEE guidelines and elements of EPR.</p> <p>Number of policies revised/strengthen relative to Ewaste Management</p>	Regulations on hazardous wastes (DAO 2013-22) existing where e-waste is classified as hazardous wastes; Guidelines on Environmentally sound management of WEEE drafted	Incentive Packages and EPR initiatives formulated and approved The Basel convention criteria related to the classification and management of hazardous E-waste are integrated in the existing or new regulations and guidelines	<ul style="list-style-type: none"> The draft Department Administrative Order (DAO) on the Technical Guidelines on the Environmental Sound Management of Waste Electrical and Electronic Equipment (WEEE) is under review of the DENR. The project is supporting the implementation of the recently passed legislation in the Philippines on Extended Producer's Responsibility by taking a lead on the components on innovation and technology and the management of non-environmentally acceptable products. A guidance document for PBDE was prepared by the UNIDO International Expert, for the DENR-EMB. The report includes the proposed Limits for PBDE in articles and biota, in other countries and recommendations for standards to be adopted (temporarily), subject to risk assessment and cost benefit study and review within EMB is on-going Review of the project's Environmental and Social Monitoring Framework (ESMF) and Gender Mainstreaming was completed by the UNIDO Consultant. As per report, the project has accomplished 80% compliance to applicable regulations. The project entered into a partnership with selected government units to ensure sustainability of the e-waste

				<p>facilities established. In the absence of harmonized policy on the regular collection of e wastes from households in the local government units (LGU) and to ensure support of the LGU who have the mandate on the management of materials recovery facility (MRF) in their respective municipalities or barangays, the agreement with the City of San Jose del Monte City (CSJDM) and the e waste facility in Bagong Silang was signed. Further, based on a directive from the EMB central office to initiate e waste collection events, EMB Regional Directors in Regions 1, 5 and CAR engaged their LGU counterparts to have the Cooperation Agreement signed by the following: a. Province of La Union b. City of Legazpi, Albay c. City of Baguio, all located in the Luzon area. The aim of the Cooperation Agreement is for the project to assist the LGUs in initiating e waste collection events and for the latter to adopt resolutions or ordinances pertinent to e waste management. Consultations within EMB are on-going to update and harmonize policies that would enable the LGUs to replicate the MRF/e waste facilities established by the project.</p> <ul style="list-style-type: none"> • The ordinances of San Jose del Monte and Caloocan City supporting e-waste management has been prepared and are awaiting adoption by their respective City Councils.
Outcome 1.2 Reduction and eventual elimination of POPs PBDEs releases from WEEE to mitigate their health impact				
Output 1.2.1. <i>Systematized and standardized system for inventory of POP PBDEs and HBB in WEEE in the country</i>	<p>Number of men and women; boys/girls protected from potential harm of E-waste.</p> <p>Presence of a standardized system for inventory of POPs-PBDEs in the country including enhanced capacity for screening and laboratory analysis</p>	<p>Absence or lack of consolidated and reliable data on generation, collection, disposal and management schemes, while environmental awareness on the hazards associated with WEEE is low.</p> <p>The absence of specific limits for the</p>	<p>Equal opportunities to jobs generated in this outcome ensured.</p> <p>Equal access to training, awareness raising event and information for women and men ensured.</p> <p>Systematic inventory of POPs in E-waste</p>	<p><u>Operations in the e-waste facilities</u></p> <ul style="list-style-type: none"> • The project has established the following: MRF/TSD facility for e waste in Bagong Silang, Caloocan City (e-waste facility Bagong Silang) and MRF/TSD facility for e waste in Dampalit, in Malabon City (e-waste facility Dampalit). The facilities are under the administrative control of the Barangay chairman while the

		<p>characterization of POPs containing plastic hinders their segregation for non POPs wastes</p>	<p>established. ESM of POPs contaminated E-waste demonstrated.</p> <p>A system for the monitoring and inventory of POPs in E-waste, based on practical handbook, sampling and analytical methodology, prepared and demonstrated through:</p> <ul style="list-style-type: none"> • at least 10,000 analyses with portable xrf; • 5% of xrf analysis confirmed by GC/MS or GC ECD method 	<p>operations are being monitored by the Integrated Recycling Industries, Inc. who have been contracted by UNIDO to provide technical guidance to the e waste facilities to ensure the outcome of the project.</p> <ul style="list-style-type: none"> • The implementation of standardized system of monitoring of e-waste coming in (i.e. weight noted) as well as using the XRF spectrometer to ensure the reading of bromine and other heavy metals is incorporated in the Work Instructions of the 2 facilities. • Additional five (5) units of Xray fluorescence spectrometer (XRF) were procured for the project partners to enable them to continue with the bromine readings for the plastic casings of the CRTs. • Subsequently, training on the use of the XRF spectrometer was provided to the end users, including EMB. • Simplified manuals on the care and use of the XRF spectrometer were prepared and posted in the walls of the e waste facilities. • Continuous trainings are provided to the operators, including the drivers and the Pollution Control Officer (PCO). The trainings are part of the requirement of EMB prior to the renewal of the Permit to Transport and accreditation of PCOs. <p><u>Collection of Household e wastes</u></p> <ul style="list-style-type: none"> • To promote the collection of e waste from households, several meetings were undertaken by the project management unit from EMB and UNIDO and EcoWaste Coalition with several local government units and private companies, within and outside Metro Manila. • In November 2022, e waste collection events were organized in the 3 sites of LGUs and as a result of that event, at least 3 tons of e wastes (i.e. refrigerator, TV, washing machine, computers) were collected. The collected e waste were brought to IRI and Barangay Bagong Silang e waste facility, who has already started to
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				<p>accept and dismantle “other e waste” in preparation for its sustainability phase since 2022. All the operators were trained by IRI to dismantle e waste other than CRTs.</p> <ul style="list-style-type: none"> As the permitting system for the hauling of e wastes from the households or LGUs is not yet in place, a special permit to transport (SPTT) to the organizers is being issued by EMB. EMB is currently working on the institutionalization of the e waste collection from households. The project is supporting the DENR’s implementation of the Extended Producer’s Responsibility.
<p>Output 1.2.2</p> <p>BAT/BEP demonstrated for the sustainable sound management of WEEE at selected waste recycling facilities</p>	<p>Number of operators adopting systems for the segregation of POP-PDEs from WEEE recycling operations.</p>	<p>Collection and recycling of household WEEE largely in the hands of informal recyclers, with a limited presence of formal recyclers processing mostly WEEE from corporations and institutions.</p>	<p>Incentive mechanisms developed under 1.1.1 to promote the collection of household E-waste, and the association of informal recyclers into formal organizations of collectors demonstrated.</p>	<p><u>Financial Mechanism</u></p> <ul style="list-style-type: none"> The project has been collecting CRTs from the association of dismantlers already engaged by Eco Waste Coalition. 27,000/50,000 CRTs were collected. At least 35 workers (16 women, 19 men) are working in the e waste facilities, as PCOs, operators, admin officers and drivers: There are 800 members of the association of waste pickers who benefitted from the financial subsidies <p><u>BAT/BEP in place in the e waste facilities</u></p> <ul style="list-style-type: none"> A cumulative total of 77,000/100,000 CRT units collected for screening for presence of bromine was collected. All recyclable and residuals are being handled by IRI. Recyclable materials such as yoke, copper, printed circuit boards and plastic casings with less than 1000 ppm bromine reading are safeguarded by IRI. The recycling rate for the CRTs ranges from 20-30% while that of other e waste is estimated to be at 80-90%. The recyclables collected from the dismantling facility include copper, printed circuit board, speaker, metal and plastic casings (lower than 1000 ppm bromine). From the 77,000 units of CRTs, revenues generated is estimated at \$93,688.74. The revenues from the recyclables are earmarked for the sustainability phase of the e waste facilities. From the revenues, a truck was purchased for the e waste facility in

				<p>Bagong Silang. UNIDO in its website featured the project with the title "The Philippines making money, making e wastes safe", after the site was visited by the UNIDO Director General</p> <ul style="list-style-type: none"> • The e waste facility in Dampalit started its operations in June 2022 and through a co-financing from Globe Telecom, Inc. the facility was able to purchase a truck. This modality of the project's partnership with the private sector is expected to be replicated by PLDT/Smart Telecom and will be reported by the 3rd/4th quarter 2023. The aforementioned Telecoms are 2 of the major service providers of telecommunications in the country. • The PSC in its meeting in November 2022, directed the project team to establish another e-wastes facility. After several meetings with stakeholders and project partners, an e waste facility in Baguio City was selected. <p><u>Sustainability Plan</u></p> <ul style="list-style-type: none"> • Sustainability Plans are being developed for the two (2) e-waste facilities. • Tripartite agreement signed between Brgy Bagong Silang and the informal waste sector in Bagong Silang and Capulong. • MOA between Brgy. Bagong Silang and Samahan ng Mambabaklas signed in May 2023 wherein the latter will assist the barangay in the operations of the e-waste facility, beyond the project phase. • As part of the sustainability of e waste management household which was initiated by the project, the EMB is looking into the following: a. harmonizing policies of solid waste division, Hazardous waste section and EIA division on MRF that are used as e waste facilities that will be limited to dismantling b. upgrading of an MRF per Region to be used as an e waste facility.
Output 1.2.3 Safe Disposal of material containing PBDE and other hazardous chemicals	Amount of waste containing POP-PBDEs segregated and disposed.	Technologies for the destruction of POPs PBDEs is missing in the country, and plastic from WEEE is frequently dumped or burnt in the open, with release of POP-	Two E-waste recycling plants upgraded to improve the identification and the segregation and safe storage of POPs of containing waste and preventing the exposure of	<ul style="list-style-type: none"> • A total of 254.8 tons of cathode ray tubes (CRTs from TVs and computers) were collected from households. • A total of 56.4 tons of plastic casings were recovered, 32.8 tons of which have bromine content readings that are greater than 1000 ppm (PBDE contaminated plastic casing).

		PBDEs and U-POPs	workers to hazardous material and substances. At least 50,000 CRT computer monitors or TV recycled with identification and segregation and disposal of PBDEs containing plastic containing 1,150 kg of PBDE	<ul style="list-style-type: none"> At least 39 tons of PBDE contaminated plastic casings were disposed, corresponding environmental sampling was undertaken before and during the treatment process (co-processing in Holcim Company as an alternative fuel). The assessment results of environmental monitoring is being prepared by the UNIDO consultant. As an associated benefit, 246.85 tons for this period or a total of 816.5 tons of glass containing Pb were disposed through encapsulation.
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Component 2 – Sound Management of PCB-contaminated equipment, PCB wastes and stockpiles from electric cooperatives

Outcome 2.1: PCB management plans of selected rural cooperatives effectively implemented.

Output 2.1.1 Screening criteria and financial mechanism formulated for subsidized funding for qualified electric cooperatives to implement PCB Management Plan	<p>Number of policies relevant to PCB management for electric cooperatives harmonized</p> <p>Number of man/women trained</p> <p>Number of ECs cooperatives identified and committed to disposing PCBs</p> <p>Existence of a Financial mechanism for the replacement of PCB contaminated transformer</p>	The Chemical Control PCB legislation already in force in the Philippine. Around 119 electric cooperatives (ECs) operates in the country, however, only 26 submitted data on their PCB equipment	At least 20 Electric Cooperatives joining the project Policies of the DENR integrated in the policies of NEA and ERC	<ul style="list-style-type: none"> As a follow up to the previous study on the “management of PCB transformers” by UNIDO international consultant, the EMB requested for specific policies clarifying retrofilling. The consultation process for the draft policy, is still on-going. A business plan for the operations of the Non Com Pops facility was prepared by UNIDO consultant for NRD and this is being updated and used as reference by NRDC to prepare the facility's financial forecast. NRDC is the operating entity of the Non Com POPs facility. Based on the approved Project Document, at least 852 tons of PCB oil and PCB containing equipment have been committed to the project from 26 Electric Cooperatives (ECs). For this reporting period, there are now 34 ECs that committed to the project, 21 ECs (200 tons PCB) have signed contracts with NRDC.
Output 2.1.2. The PCB disposal facility at Limay, Bataan upgraded for undertaking further disposal of 600 t of PCB equipment coming from the Electric Cooperative	Availability of additional equipment for the treatment of low contaminated PCB transformers at the disposal facility in Bataan	The PCB Dechlorination facility built in 2014 under the GEF project 2329 is currently operational and is completing the disposal of 1500 t of PCBs as envisaged as Co-financed contribution for that project. This does not include the PCB	The PCB dechlorination facility upgraded to treat also solid waste contaminated by PCB (transformers, insulating materials) in addition to PCB contaminated oil. 600 tons of PCB or PCB equipment safely disposed during the project	<p><u>Sampling of PCB oil and Equipment</u></p> <ul style="list-style-type: none"> As part of the validation activities, EMB has analyzed (82) samples of PCB oil using the CISE analyzer to determine the PCB content of several transformers from ECs. The brand of the transformers where the samples were taken were noted and included in the project's database. <p><u>Maintenance of the Facility</u></p> <ul style="list-style-type: none"> Periodic maintenance of the facility electrical system, pumps, motors,

		equipment from the ECs		<p>switches are undertaken lead by Non Com POPs operators.</p> <ul style="list-style-type: none"> • Prior to the issuance of the Entry Permit to NRDC, preventive maintenance for the compressor, SCADA, field instruments, pumps and GC ECD were undertaken to ensure that all equipment were up and running. The laboratory set up had to be completed and with a new chemist in the facility, the completion of the set up was only realized in April 2023. <p><u>Permits from the DENR and other government permits</u></p> <ul style="list-style-type: none"> • Transport Storage and Disposal (TSD) permit of the Non-Com POPs Facility has been renewed by the DENR- EMB in November 2022, this is being renewed annually. • The ESMP report for the facility was updated by their designated Pollution Control Officer.
Output 2.1.3. PCB wastes screened, transported, treated and disposed at the existing Non-Combustion Facility at Limay, Bataan	Amount of PCB wastes disposed of in an environmentally sound way.	During PPG, more than 852 tons of PCB contaminated equipment were identified from 26 ECs. Very limited amount of analytical data is available.	At least 600 tons of PCB containing equipment ready for disposal or treatment identified	<ul style="list-style-type: none"> • PNOC Industrial Park, where the Non- Com POPs facility is located allowed the entry of PCBs to the facility only in February 2023. From February 2023, NRDC has hauled 157 transformers (distribution and power) and 80 drums of PCB contaminated oil. • The production plan for the PCB oil and equipment expected to be brought to the facility was updated, as well as the list of supplies and materials that they needed to purchase. • The facility resumed the manufacturing of Na dispersion. The Non Com POPs lab is expected to undertake wipe sampling of the metals, to confirm that the carcasses are already decontaminated and these metals could already be sold for recycling • The facility dismantled 106 distribution transformers (36 tons) and treated 10.29 tons low level PCB oil with concentrations ranging from 60 – 100 ppm to less than 2 ppm. • The use of these transformers have been discontinued, thus, the quantity of 36 tons will be reflected in the SCD. • The facility is processing PCB stockpile from both ECs and non ECs, as the oil treated needs to be reused to treat the metals. Thus, the facility is ensuring that there is enough treated oil to treat all the distribution transformers coming from the ECs.

Component 3 AND COMPONENT 4 – Component 3: Institutional strengthening, capacity building and awareness raising

Outcome 3.1 Increased capacity for and awareness on sustainable and effective WEEE and PCB wastes management by relevant stakeholders

Output 3.1.1 Training programs on sustainable and effective WEEE and PCB waste management by relevant stakeholders	Documentary evidence of training carried out available. Funds allocated for gender capacity building activities. No. of men and women participating in workshops or capacity building events Presence of a Knowledge Management infrastructure (websites, online databases) operational and updated with relevant information on POPs and project activities	There are no knowledge management system implemented for the Ewaste sectors, whilst there is an online PCB management system under the DENR website philpcbtracker.com The EC cooperatives lacks technical capacity on POPs management Informal operator lacks completely the technical capacity for the ESM management of potentially POPs contaminated E-waste	Training delivered to all the ECs joining the project. Training sessions on E-Waste management and POPs for at least 50 trainees including operators and control authorities. Website and online database for POPs and E.waste	<u>Training for PCB/WEEE Stakeholders</u> <ul style="list-style-type: none"> On line training on hazardous waste management was provided to the operators of the TSD facility. Train the Trainers Training on PCB Management was held in November 2022 with 29 participants (13 female, 16 male), which was organized by EcoWaste Coalition. A refresher's course was given to the new trainers in preparation for the resumption of operations of the Non Com POPs facility. The new operators needed to be equipped to handle all equipment in the Non Com POPs facility, a training was provided to them by the UNIDO Non Com POPs expert from January to February 2023. The refresher's included plant operations, lab instruments maintenance and and lab analysis. There were 11 participants to the training (5 female and 6 male). Further, training was given to the chemist in the EmB lab on the ASTM/Kinectrics methodology of PCB analysis. In December 2022, a stakeholder's workshop was convened to enable the project team to report achievements for the year. The event was participated in by the UNIDO Project manager, UNIDO Country Representative, GEF OFP and the chairman of the PSC, EMB and FASPS director and key officials and staff who are part of the project team. All project partners from the 2 components and 3 project sites were invited as well as partners from the private sector.
Output 3.1.2: Awareness programs on WEEE and PCB waste management formulated and conducted	Presence of awareness programs and materials on WEEE and PCBs. Increase of the awareness on PCB and POPs in e waste of relevant stakeholders measured through interviews and questionnaires.	The awareness on POPs is mainly limited to the academic society and some institutions. PCB awareness is very limited among managers of ECs, although it increases in the last years thanks to GEF initiatives. The awareness on POP-PBDEs, HBB and PFOs among waste recycler is	Awareness program on WEE and PCB waste management broadcasted via television and the web.	<u>Websites/Social Media</u> <ul style="list-style-type: none"> The project's website has been updated by EMB and the IEC materials have been published (ewaste.emb.gov.ph) The project has launched its own youtube channel where all the project videos are posted (E-Waste 'to, Iwasto!) Project has been featured in the DENR FASPS website, EMB website, UNIDO website, GEF website, PHILRECA website The EMB regional offices and LGUs of the city of San Jose del Monte, city of Baguio, city of Legaspi and the province of La Union and San Fernando City

		substantially absent.		<p>featured in their social media accounts activities on e waste collection.</p> <ul style="list-style-type: none"> • Private companies such as Globe Telecom and Smart PLDT, SyCip Law Offices featured the project in their social media accounts • PHILRECA featured the PCB component of the project in its website. <p>Press Release/ Publications</p> <ul style="list-style-type: none"> • A total of 14 Press Releases were prepared and published during the PIR period highlighting most of the activities pertinent to the ewaste component of the project • 1 Story Feature Article on the Women of E-Waste was published in the GEF Website (In Manila, the safe disposal of electronics helps women and their communities GEF (thegef.org)) • Project has been featured in the cover page of the quarterly bulletin of DENR FASPS, and in the 2023 calendar of DENR • Project is also featured in the UNIDO Country Office Newsletter during the PIR Period <p><u>Missions organized by UNIDO/DENR or GEF</u></p> <ul style="list-style-type: none"> • The e waste facility was visited by the GEF secretariat during their Mission in the Philippines. A meeting with the stakeholders, in particular the women from the informal sector who are assisting the project as e waste busters was organized, as a result of the visit the project was featured in the GEF website. • UNIDO Director General visited the e waste facility of Bagong Silang in September 2022 as part of his mission to the Philippines. BAT/BEP interventions provided by UNIDO to the operators were presented during his visit. (link: The Philippines: making money making e-waste safe UNIDO) <p><u>High-Level Events</u></p> <ul style="list-style-type: none"> • Cooperation agreement signing and E waste Collection Event between the CSJDM and Bagong Silang TSD Facility. The event was participated in by the Mayor of CSJDM, Undersecretary Jonas Leones, UNIDO Country Representative Ted Monroy, Director Al Orolfo, Asst. Director Vizmindia Osorio and Kapitan Joel Bacolod.
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				<ul style="list-style-type: none"> • Cooperation agreement signing in Baguio City was lead by Mayor Benjamin Magalong and participated in by the highest DENR executive in the region (Regional Executive Director Pablo and EMB regional director Abrera) • Cooperation agreement signing in the province of La Union lead by the governor and EMB Regional Director. • Cooperation Agreement signing in the city of Legazpi with the representative of the Mayor and EMB Regional Director • Attached in the Knowledge Management Section are the activity report of the said activities. <p><u>Learning Mission</u></p> <ul style="list-style-type: none"> • Learning Mission from Baguio City LGU and Barangay Bakakeng LGU visited the facility in May 2023, prior to their decision to host the 3rd e waste facility • Learning Mission from Indonesia to the e waste facility in Dampalit was organized by EcoWaste Coalition • Learning Mission to the PCB facility by international delegates from the Stockholm Regional Convention Centre in South Africa was organized in June 2023 to enable the delegates to decide on the type of technology that they could adopt in their country. • PhD Students from the University of the Philippines visited the PCB and e waste facilities as part of their academic requirements. <p><u>Other Awareness Raising Activities</u></p> <ul style="list-style-type: none"> • Webinar on How to Operate a Barangay-led TSD Facility for E waste conducted • E waste Collection Activities from September to November 2022 • Simultaneous e-waste Collection Events and Culminating Activity in celebration of Earth Month • The project participated in the Side Event of the 2023 COPS/BRD in Geneva. A PCB Booth was set up to feature the Non-Com POPs Facility in the Philippines, among other PCB Plants in India and Indonesia. • Copies of the Activity Reports are included in the knowledge management section.
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III. Project Risk Management

1. Please indicate the overall project-level risks and the related risk management measures: (i) as identified in the CEO Endorsement document, and (ii) progress to-date. Please expand the table as needed.

Describe in tabular form the risks observed and priority mitigation activities undertaken during the reporting period in line with the project document. Note that risks, risk level and mitigations measures should be consistent with the ones identified in the CEO Endorsement/Approval document. Please also consider the project's ability to adopt the adaptive management approach in remediating any of the risks that had been sub-optimally rated (H, S) in the previous reporting cycle.

	(i) Risks at CEO stage	(i) Risk level FY 22	(i) Risk level FY 23	(i) Mitigation measures	(ii) Progress to-date	New defined risk ⁵
1	Resistance from informal sectors involved in WEEE collection and dismantling to modify their operations	M	M	Partnering with NGOs with very specific experience in cooperating with informal sectors with the specific role to increase awareness and promote the shifting toward the establishment of formal waste collection operation, linking them to the formal network or providing alternative livelihood options	<ul style="list-style-type: none"> As a result of the MoA entered into by the Junkshop Cooperatives and Bagong Silang, the junkshop operators in Bagong Silang and Camarin stopped from receiving CRTS for dismantling, however, there are some junkshop owners who are not members of the Samahan ng Mangangalakal who were reported to resist buying or accepting e wastes. During a meeting organized by EcoWaste Coalition wherein the operations of the e wastes facility in Bagong Silang was assessed, the junkshop in Bagong Silang reiterated in the meeting that they will cooperate with the activities of the e waste facility, even if this is run by a Cooperative. In a dialogue with the Chairman of Bagong Silang in November 2021, the barangay was requested to issue a resolution or an executive order banning the junkshops from receiving e wastes (CRTs, refrigerators). Draft resolution was already prepared There are still some informal dismantlers (not member of the association engaged by the project) who are buying e wastes and this was already reported to the government who had the mandate to regulate them To continually support the informal sector and for the sustainability of the e waste facility in Bagong Silang, an agreement was reached with the Village Chief and the association of dismantlers and junkshops, wherein the latter will operate the e waste facility after the project. 	<input type="checkbox"/>

⁵ New risk added in reporting period. Check only if applicable.

2	Segregation scheme impractical or not sustainable	L	L	<p>The technical and financial support from the GEF is aimed to cover the incremental cost associated with the segregation of POPs containing E waste.</p> <p>Beyond the project calculations (2 to 5 years) showed positive revenues in the continuous operation of the TSD facility with the assumption that the e-waste volume is doubled, disposal costs are doubled, and operational expenses have 10% increase per year</p>	<ul style="list-style-type: none"> For the transition phase to sustainability, of the e waste facility in Bagong Silang which collected at least 35,000 CRTs (TVs and computers), a feasibility study/financial forecast was prepared taken into consideration the data from the operations. The input of IRI, and other experts were incorporated in the financial study and in the operational strategy developed. Recommendations incorporated in the Operational Strategy are as follows: a. agreement between the Barangay unit and the TSD Operator be considered. B. Project to turn over the operations to the Parties c. project to provide seed funds to finance the operations. Using the input from the financial experts and the lessons learned during the operations, the civil society was tasked to ensure that specific actions leading to the sustainability of the e wastes facility is achieved. Several dialogues had been arranged with IRI, barangay Bagong Silang, the project team and the experts, wherein it was relayed that the Samahan would like to avail of a vehicle for the transport of e wastes using the income from recyclables as seed money. The said seed money is being safeguarded by IRI. The barangay has committed to provide counterpart staff for the operations from 2023 onwards. Barangay Bagong Silang has prepared an Executive Order banning dismantling on the roads Prior to the establishment of the 2nd e waste facility, a cost benefit study was undertaken. The recommendations include the following: a. the barangay must draft ordinances that would ultimately ban informal dismantlers from processing ewaste, b. instill in residents the importance of e-waste management through campaigns. C. In partnership with Globe Telecom, the project could be provided with more initial funding and its impact could be further increased through promotions by Globe Telecom communities. Co-financing in cash was infused by Globe/Telecom for the 	<input type="checkbox"/>
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					<p>operations of the E waste facility in Dampalit, Malabon</p> <ul style="list-style-type: none"> Although the UNIDO international expert recommended a cut off of 1000 ppm bromine content for plastic casings, instead of 500 ppm as used now, EMB requested the World Trade Organization's comment, as this may have an impact to trade Segregation is being done in the e waste facility as this is already part of their work instructions, the e waste are segregated based on the bromine content of the plastic casings. Correlation study on PBDE and Bromine already completed, but the policy still would need to be drafted by the TWG/experts for adoption of EMB. Given sufficient data, i.e. brands and year manufactured with reading above the threshold limit, the use of XRF may be limited. If this is to be implemented nationwide then operation can start without purchasing an XRF right away. 	
3	POPs contaminated E-waste not reaching the project target	M	L	Although this risk cannot be completely excluded due to the fact the inventory are based on indirect measurement of POPs, it is very likely that the inventoried POPs contaminated E wastes are an underestimation of the actual situation	<ul style="list-style-type: none"> Based on the correlation study of bromine and PBDE and the 22,372 bromine readings done by the project, it was calculated that the amount of PBDE in the plastic casings is at 563 kg. The project has a target of 1.12 tons and half is already achieved. The PBDE content of the remaining plastic casings will be calculated. At least 39 tons of PBDE contaminated plastic casings, which is estimated to contain 550 kg of PBDE has been disposed, additional 50,000 CRTS will be collected which is an additional source of about 31 tons of PBDE contaminated plastic casings 	<input type="checkbox"/>
4	Disposal technology for POPs contaminated plastic not available in the country or too expensive compared to available funds	L	L	Market research will be undertaken to ensure that all possibilities have been studied	<ul style="list-style-type: none"> A policy allowing co processing of e wastes was issued by EMB. The PSC directed the preparation of the Tor for the disposal of plastic casings and a mission was undertaken in March to enable the project to develop the ToR for the disposal of plastic casings and ToR for environmental monitoring. 39 tons of PBDE contaminated plastic casings were disposed through co-processing as alternative fuel in a cement kiln; UNIDO subcontracted CRL Environmental Corporation to 	<input type="checkbox"/>

					<p>undertake environmental testing; assessment of which is being prepared by UNIDO international consultant.</p> <ul style="list-style-type: none"> On the sustainability part, the number of Co-processing sites may be limited especially in some Regions. Alternative technologies may be reviewed where PBDE contaminated plastics may be disposed. This may be beyond the project but it may be worth looking at this. 	
5	Disposal cost not competitive	M	M	An international bidding to improve the capacity of the plant will be held so that the technology improvement adopted will fulfill strict and financial requirements. The project will subsidize disposal costs for the ECS to ensure the competitiveness of disposal services	<ul style="list-style-type: none"> The project did not see the need to undergo international bidding as there were service providers in the country who were capable to upgrade the capacity of the PCB facility. UNIDO international and national experts were requested to prepare the ToR for the upgrading of the equipment. The subsidy being offered by the project is considered by the ECs as an incentive, however, due to budgetary constraints e.g. brought about by typhoon, at least 4/30 ECs withdrew from the project. PHILRECA's assistance was requested to organize meetings with the Electric Cooperatives. A total of 50 ECs were already met by the project, however, most of them had concerns on their budgetary constraints and most of them have no approved PCB management plan nor actual analysis of their PCB stockpile NRDC is reviewing possible conditions in their contractual agreements so as it will be more financially be feasible for the electric cooperatives. 	<input type="checkbox"/>
6	Low participation and interest from the stakeholders to participate in awareness raising activities or training	L	L	Different methodologies and targeted materials will be developed to generate interests among stakeholders	<ul style="list-style-type: none"> E waste stakeholders particularly the informal sector participate in trainings, despite their limited access to internet connection and zoom platform. E waste collection were held to raise the awareness of the populace on the importance of household e waste management, selecting of the right partner is important. The EMB has tapped its counterparts in the Regional Offices to continuously meet with ECs and NRDC. For this Reporting Period, the project has conducted 7 Consultation Meeting with NRDC, the ECs and EMB Regional Offices. An excel file to monitor the progress 	

					<p>of contracts with Electric Cooperatives are updated on a weekly basis by the NRDC project team and presented during project team meetings.</p> <ul style="list-style-type: none"> Project will be collaborating with PHILRECA for the remaining 5 months for the conduct of meetings with the ECs. 	
7	Climate change associated risks	L	L	The Philippines is a country prone to natural disasters associated with climate change. The disposal facility is, however, located in an area with very low hydrologic risk. The project will reduce the environmental effect of flood by removing sources of POPs	<ul style="list-style-type: none"> Bataan is always frequented with rain and storm, all transformers are inside the building of the facility. The 2nd e wastes facility located in Malabon is prone to flood, thus, this was incorporated in the actual upgrading ensured that the area is elevated. The road going to the facility though is flooded during high tide. The schedule of hauling is harmonized with the weather conditions. Through e waste collection events, at least 14.5 tons have been collected and at least 250 tons of glass containing Pb had been disposed properly, which means that this waste was diverted from the landfill or creeks and rivers to the proper disposal facilities. 	
8	Activities stalled due to the lockdown brought about by COVID 19	L	L	Some activities could be delayed or could no longer be implemented.	<ul style="list-style-type: none"> In relation to Covid 19, the operators in the e waste facilities and Non Com Pops facility still maintain basic PPEs such as masks 	

2. If the project received a sub-optimal risk rating (H, S) in the previous reporting period, please state the actions taken since then to mitigate the relevant risks and improve the related risk rating. Please also elaborate on reasons that may have impeded any of the sub-optimal risk ratings from improving in the current reporting cycle; please indicate actions planned for the next reporting cycle to remediate this.

NA

3. Please indicate any implication of the **COVID-19** pandemic on the progress of the project.

The pandemic caused delay in the deliveries of the project for all components, thus, catch up plans were prepared.

Component 1

- In the TSD facility for e-wastes, safety protocols were adopted, so as for the operations to proceed despite the COVID 19- pandemic. For the informal waste sector, they continued to collect e-waste despite the pandemic, as they were on a "hand to mouth" situation. In several meetings, they emphasized that the presence of the "financial incentive mechanism" enabled them to have a regular income, and focus their work only on the collection of e-wastes, instead of also "dismantling" the e wastes/TVs.
- The 7 operators in the TSD facility, IRI staff undertaking the hauling, informal sector delivering e-wastes, are wearing masks and face shield and are complying with the COVID 19 management protocol. In addition, staff from IRI are required to take a weekly medical clearance.

- Some activities were delayed due to the pandemic, including hands on training.

Component 2

- There was a training for the operators by Kinectrics, however, due to the Covid situation, the training was conducted via zoom and a national expert on the operations was engaged to assist NRDC in the hands on training. Further to this, there were several materials for the laboratory (i.e. standards, isooctane) that were required by Kinectrics for the training, however, this could not easily be delivered on time due to the lockdown and restriction in Bataan in August. 2021. NRDC had to loan some chemicals from the EMB laboratory (i.e. hexane). Entry into Bataan was allowed only in October 2021.
- With the pandemic, all validation works could only be done in January 2022 after the lockdowns in 2021 which lasted from June to October 2021. In Bataan, entry were restricted until October 2021, so trips to the facility were limited to the residents of Bataan unless clearance from IATF were obtained.
- The validation or sampling of transformers from the ECs were requested prior to their signing of contracts with NRDC.
- Hauling activities were derailed after one of the Non Com POPs personnel was found to be positive. This resulted in the non pull out of at least 11 tons of PCB transformers from NGCP.
- In September 2021, when the NRDC raised to the DENR that they encountered issues with the PNOC and the entry permit for PCB oil and equipment were disapproved, the DENR management requested face to face meetings with the principals of PNOC. In the viewpoint of the DENR management, negotiations through face to face meetings rather than virtual are more formal.
- There were changes in the PNOC management, as a result of the pandemic, and the new management brought in a different perspective from the previous management, hence, additional negotiations of the Locator's Agreement between NRDC and PNOC were needed, which is now the cause of the delay of the resumption of the operations.
- PCB disposal is not limited to PCB oil from the Electric Cooperatives, but would also be dependent on the inventory of EMB and marketing strategies of NRDC. The economic standing of many companies were affected, thus, some companies who initially committed to PCB treatment backed out.

Component 3

- E waste collection in the communities were delayed due to the lockdowns that occurred in Metro Manila from July – October 2022. In the case of Barangay San Agustin and Ciudad Real, the collection of their e wastes stored in their temporary storage sites were delayed for at least three (3) months until the covid restrictions were lifted.
- The lockdown also affected the works done by EcoWaste Coalition who has to undertake face to face meeting with the Samahan and other organizations. Works continued after the lockdown, taking into consideration the catch-up plan prepared by the project.

Component 4

- Site visits to monitor the operations of the e waste facility and Non-Com Pops facility, meet with stakeholders could only be undertaken after September 2021, after the restrictions in all parts of the Philippines were lifted.

4. Please clarify if the project is facing delays and is expected to request an **extension**.

In November 2022, during the 15th PSC meeting, the NRDC reported that following the difficulties with the PNOC Industrial Park where the Non Com POPs facility is located, it has not completed the disposal of 600 tons of PCB oil and PCB containing equipment, High level negotiations had been undertaken since June 2022 until December 2022, with the DENR Directors, EMB Assistant Director and DENR Undersecretaries having a series of meetings with PNOC President and managers. With the resignation of NRDC's president in November 2021 and Executive Vice President in June 30, 2022, they reported difficulties in the execution of their procurement. A catch up plan was presented in November 2022 by NRDC, in which the following were proposed:

- EMB to continue to monitor ECs and meet with ECs
- Direct EMB Regional offices to defer NOV's (related to PCB Management) to ECs who have existing contracts with NRDC
- NRDC to revisit the financial analysis to lessen the disposal cost for ECs • NEA to be requested to assist in the meetings with ECs
- NEA to be requested to enjoin ECs to participate in the project and to include in the key performance standard of ECs their compliance to PCB management regulations

In December 2022, a request for extension was submitted to enable the project to complete its deliverables for Component 2. The extension was approved in March 2023. The project will no longer request for an extension.

5. Please provide the **main findings and recommendations of completed MTR**, and elaborate on any actions taken towards the recommendations included in the report.

To UNIDO:		Status as of 30 June 2023
1	Due to numerous challenges faced by the project, the PCB component has suffered significant delays in the achievement of activities. At midterm, the non-combustion facility has not yet started the treatment of PCBs. To allow for the smooth and successful completion of activities, the evaluation recommends a project extension of one year.	The project is extended until 31 January 2024. The facility did not operate from 2020-2021 due to Covid and in 2022, PNOC did not allow entry into the facility, thus operations only resumed in February 2023.
To UNIDO, DENR, PSC:		
2	Upon the recommendations of an expert, further analyses were required to be able to correlate the levels of bromine (determined by the portable XRF spectrometer) and PBDE in plastic casings of CRTs and other e-wastes. As a result, the sound disposal of PBDE-containing plastics has not yet started, given that their PBDE content could not be confirmed by the ERF device. The analyses are still ongoing. The evaluation recommends that the project should closely monitor these analyses as they are key for the identification of PBDE in plastic casing by the XRF devices.	<p>Correlation study and calculation of PBDE based on the correlation study completed,</p> <p>Calculation of PBDE based on the correlation study of bromine and PBDE, bromine readings using XRF spectrometer - 563.kg of PBDE in 22,372 samples of plastic casings</p> <p>UNIDO Report recommended that plastic casings with bromine content lower than 500 pm could already be disposed or recycled, while those higher should be safeguarded for further disposal.</p> <p>EMB project team is discussing with their management the recommendations of the study for EMB to adopt the limit, pending the conduct of cost benefit study and cost benefit analysis.</p>
3	A policy recognizing the use of PCB screening equipment for inventory purposes has been drafted and submitted to EMB for approval since June 2020, but this has yet to be finalized. It is recommended that EMB take the necessary actions to approve and implement this policy as the PCB screening equipment is key for the validation / confirmation of the presence of PCB in the safeguarded equipment at the ECs.	Memorandum Circular policy recognizing the use of PCB screening equipment adopted by EMB.
4.	A project website, which contains relevant information about the project and results produced so far, was created by Ecowaste Coalition in October 2018 and handed over to EMB in April 2019. However, this website, which is key to showcase, share, and disseminate project results to partners and the wider community, is not currently functioning. The evaluation recommends that the project take the necessary actions for its good functioning, and suggests the nomination / appointment a focal point for its management.	Publications of the project are in the EMB, DENR FASPS websites PHILRECA and in the social media accounts of EMB and UNIDO Country Office, EMB Regional Offices and EcoWaste Coalition.
To UNIDO, DENR, NRDC, NEA, PSC:		
5.	Currently, with the project subsidy of 2\$ per kg of PCB treated, the proposed treatment cost (about \$5.1 per kg) at the non-combustion facility is competitive compared to disposal cost at dedicated international facilities (about \$4 inclusive of packaging and shipment costs). To remain competitive after project closure, the project partners should review the disposal cost at the non-combustion facility. Otherwise, there is the risk that PCB owners would prefer to export their PCB stockpiles for disposal.	As part of the strategy of NRDC to encourage new ECs to participate, they will be adjusting conditions in their contractual agreements.
6.	Many ECs indicated that the phasing-out, sound disposal, and replacement of PCB equipment constitute a financial burden for their institutions. The evaluation recommends that the project, in consultation with the relevant stakeholders, consider the most appropriate and feasible of the three proposed options to relieve the financial burden that the phasing-out of PCBs represent to the ECs: (i) to increase the kWh rate by an adequate	<i>DBP reviewing the eligibility requirements for the soft loan;</i>

quantum (to be determined during the consultation) and that would be acceptable all (e.g., less 10 centavos per kWh); (ii) national banks (e.g., DBP) to grant ECs with long-term soft loan, and the ECs could spread the cost to the consumers over a long period; and, (iii) possibility for ECs to apply for CAPEX funds to the ERC.	
To UNIDO, DENR, TSD facility, IRI, PSC:	
7. The e-waste collectors of three of the four project sites indicated that lack of space for storage of CRTs was creating problems. In particular, some were apprehended by their local authorities. The evaluation recommends that the project, in consultation with the relevant authorities and project partners, try to find a solution to this storage issue. Alternately, IRI could consider increasing the frequency of its collection trips to the three concerned barangays.	<p>From January 2021, adjustments were undertaken to address the concerns including the increase of hauling frequency Schedule of transport of e wastes from the MRF/TSD facility to IRI has been undertaken regularly, with the frequency increased by IRI.</p> <p>To ensure regular hauling, CRTs were dismantled according to the facility's work instructions.</p>
8. One e-waste association indicated that IRI comes to their area to collect the CRTs once weekly. However, about 30% of the collectors cannot wait as they depend on these for their daily income and subsistence. Thus, they still dismantle the CRTs in their homes / local communities and sell the recyclable parts for their daily income. In order to stop this, the evaluation recommends that the project, in consultation with the relevant project partners, should put in place a financial mechanism such that these 30% e-waste collectors get paid in advance before IRI comes to collect their CRTs.	<p>With the increase in the collection capacity of IRI, the issue on the financial mechanism was already addressed.</p> <p>Amendment of contract of IRI approved by the PSC to address the price adjustments</p>

IV. Environmental and Social Safeguards (ESS)

1. As part of the requirements for **projects from GEF-6 onwards**, and based on the screening as per the UNIDO Environmental and Social Safeguards Policies and Procedures (ESSPP), which category is the project?

☐ Category A project

☒ Category B project

☐ Category C project

(By selecting Category C, I confirm that the E&S risks of the project have not escalated to Category A or B).

Notes on new risks:

- *If new risks have been identified during implementation due to changes in, i.e. project design or context, these should also be listed in (ii) below.*
- *If these new/additional risks are related to Operational Safeguards # 2, 3, 5, 6, or 8, please consult with UNIDO GEF Coordination to discuss next steps.*
- *Please refer to the [UNIDO Environmental and Social Safeguards Policies and Procedures \(ESSPP\)](#) on how to report on E&S issues.*

Please expand the table as needed.

	E&S risk	Mitigation measures undertaken during the reporting period	Monitoring methods and procedures used in the reporting period
(i) Risks identified in ESMP at time of CEO Endorsement			
Waste Dismantling/Collection			
	Accidental release of hazardous wastes (spill or leaks) which may lead to air, water and soil contamination	<p>Spill Containment System in the storage area to prevent leakage of to the environment</p> <ul style="list-style-type: none"> • Regular inspection of container and equipment used in handling wastes • Emergency and Preparedness & Response Plan <p>/Contingency Program</p>	<ul style="list-style-type: none"> • Emergency preparedness and response activities during floods and earthquakes are included in the usual fire, evacuation and chemical spill response drills for both the TSD facility for e-waste and the Non Com POPs facility. • PCB Facility has an updated Fire Safety permit from Bureau of Fire Protection – Mariveles, Bataan. • Fire safety inspection certificate of the PCB facility was issued in September 2022, this is to be renewed by September 2023. • NRDC has existing system in place to monitor the following: <ul style="list-style-type: none"> a. Job safety analysis b. Authorized personnel per equipment c. Inspection of fire extinguisher – monthly d. Residuals from the operations i.e. sludge and lab wastes • Internal audit within the facility showed that the e wastes facility in Bagong Silang and Dampalit still need to improve their compliance to the fire and safety code.
	Exposure of workers to physical, chemical and biological hazards	<p>PPE Program</p> <ul style="list-style-type: none"> • Signage must be available on working areas • First Aid Stations 	<ul style="list-style-type: none"> • Non Com POPs Facility and e waste facility are implementing safety procedures. • There are proper signages in all working areas in both the Non-Com POPs facility and the 2 e-waste facilities.
	Indirect exposure of residents nearby	<p>Conduct Information and Education (IEC) to raise awareness to the toxicity of e-wastes</p>	<ul style="list-style-type: none"> • Follow up meetings with the LGUs who signed the Cooperation Agreement with the project were conducted • Continuous awareness raising activities were undertaken in selected LGUs outside Metro Manila and in key cities in Metro Manila. • Building developers, were tapped to participate in e waste collection events • Offices were encouraged to enjoin their employees to let go of their old phones, old computers • EMB Regional offices were mobilized to promote proper e waste management of households. • The Non Com Pops facility is located in an Industrial Park,

			<p>away from the residents and the sources of PCBs (Electric Cooperatives) have their own safety measures in place. The ECs have their Pollution Control Officers accredited by the EMB and have corresponding storage and disposal permits issued by the EMB on an annual basis; corresponding Permit to Transport and Manifest system are also in place. Entry to the PNOC Industrial Park is regulated by the PNOC, and Entry Permit have to be secured. All vehicles prior to leaving the Industrial Park are being inspected, all materials have to secure the necessary Gate Pass prior to leaving the premises of the PNOC park.</p>
	Loss of livelihood of informal waste pickers	Establishment of incentive packages to alternate livelihood	<ul style="list-style-type: none"> • Financial incentive mechanism was put in place • Transition to sustainability of the operations were prepared • At least 35 man and women from the informal waste pickers were hired as e-waste busters, while others in the operations of the e-waste facilities. • Agreement signed between Barangay Bagong Silang and the association of dismantlers as part of the sustainability plan. • E waste collection events have been initiated even outside Metro Manila.
	Generation of solid wastes	Solid Waste Management Program	<ul style="list-style-type: none"> • E waste and Non Com Pops facilities have existing solid waste management collection system • The e waste facility which collected mostly CRTs initially had a recycling rate of 20%, however, residuals were disposed through 3rd party service providers. With other e wastes being received, recycling rate is now 80%, and residuals are disposed as ordinary municipal wastes. • The Non Com POPs facility generates residuals such as sludge (< 2 ppm PCB content) – 10 drums or 0.28 tons and porous materials (0.06 tons) are now stored in the facility. NRDC has a scheduled disposal for the said residuals
	Reduced health risks for the workers	<p>PPE Program</p> <ul style="list-style-type: none"> • IEC 	<ul style="list-style-type: none"> • Health and Safety protocols are in place in the PCB and E waste facility • The women workers awareness on the reduced health risk as a result of the project is very high. • Non Com POPs facility workers have a regular orientation on the hazards and proper handling of

			<p>PCB oil and equipment in the facility. PPEs are provided in the processing area, including the laboratory.</p> <ul style="list-style-type: none"> • Annual medical check up is expected to be undertaken by the staff within the year.
	Increased capacity of ECs in disposing their PCB stockpiles	Financial assistance	<ul style="list-style-type: none"> • Project has partially subsidized the transport of 45 tons of PCB from the ECs • Subsidy amounting to \$400,000 has been issued by EMB and 387,600\$ of this were availed of by the ECs • NEA facilitates the approval of the Revised Work and Financial Plan of ECs to include disposal of PCBs • PHILRECA participated in several meetings and committed to assist in enjoining the ECs in participating in the project.
	Enhanced capacity of PCB owners in formulating PCB management plan	<p>IEC</p> <ul style="list-style-type: none"> • Trainings/workshops 	<ul style="list-style-type: none"> • 31 ECs submitted approved PCB management plan during the PPG phase, and an EMB-approved PCB Management plan is a requirement for the EC to participate in the project • EMB project team is assisting new ECs in their PCB Management Plan • Participation in the project would enable them to have access to subsidy for the disposal of their PCB stockpile • Awareness Raising activities of PCB stakeholders are organized by the project. • At least eight (8) ECs, who were not identified during the initial phase of the project participated.

	Increased awareness on sustainable and effective WEEE and PCB wastes management by relevant stakeholders	Training/workshops <ul style="list-style-type: none"> • IEC 	<ul style="list-style-type: none"> • The project organized a train the trainers workshop on PCB and WEEE management with the participation of EMB Central and selected Regional Offices and NRDC staff. • An audio-visual documentary on PCB projects of UNIDO in Indonesia, India and the Philippines was prepared and featured in the PCB Fair in May 2023 in the BRS Convention. The speakers from the Philippines include officials from the project partners and stakeholders, EMB Director, NEA director and PHILRECA president. The audio-visual documentary is to be featured in the DENR, EMB, NEA and PHILRECA social media. • Awareness raising activities are continuously being undertaken in the project sites by Ecowaste Coalition. At least 584 members (174 women 410 men) of the Samahan are adopting proper management of e wastes
Waste transport			
	Accidental release of hazardous waste (spill or leakage)	Check waste containers prior to transfer <ul style="list-style-type: none"> • Vehicles must be equipped with spill clean-up kit • Emergency and Preparedness & Response Plan /Contingency Program	<ul style="list-style-type: none"> • Safety procedures are incorporated in the Non Com POPs facility Technical Work Instructions • Operations in the e waste facility is limited to dismantling and does not generate any liquid waste which would cost spill or leakages • PBDE contaminated plastic casings are stored in IRI
	Vehicle breakdown and accidents	Proper and regular maintenance of vehicles <ul style="list-style-type: none"> • All drivers must be properly trained • Vehicles must have hazard warning panels 	<ul style="list-style-type: none"> • Transport is sub-contracted by NRDC and EMB requires Permit to Transport for the hauling of PCB oil and DT • IRI has appropriate Permit to Transport from EMB (for e-wastes) • Drivers for the e waste facilities and some workers attended a training as a requirement for all transporters of hazardous wastes • For the transport of PCB oil and equipment, and PBDE contaminated plastic casings, Transport Permit are being secured from the DENR-EMB. • For the household e-wastes collection organized by the project, special permit to transport is being issued by EMB.
	Traffic issues	Must have approved route from the waste generator to TSD facility to avoid densely populated areas	<ul style="list-style-type: none"> • Traffic concerns are part of the requirement of the Transport Management Plan in the application of Permit to Transport

	Exposure of workers to physical, chemical and biological hazards	First Aid Kit must be available in the vehicle • PPE Program	<ul style="list-style-type: none"> First Aid Kit is included in the Emergency Preparedness Response of the TSD facility and PCB facility TWI include handling of chemicals i.e. sodium.
	Fire/Explosion	Vehicles must be equipped with fire-fighting equipment • Emergency and Preparedness & Response Plan /Contingency Program	<ul style="list-style-type: none"> This is part of the requirements of EMB in the issuance of Permit to Transport
(ii) New risks identified during project implementation (if not applicable, please insert 'NA' in each box)			
	The operational safeguards that were reported to be applicable to the project during the PPG phase include the following: OS1 Environmental and social assessment OS8 Information Disclosure OS9 Accountability and Grievance Systems	Environmental and Social Management Plan was strictly implemented to reduce and mitigate the risks outlined in the ESMF. The continuous stakeholders' engagement; project consultation, presentation and status update were implemented. No complaint was received to this date. The continuous IECs and consultation led to the stakeholders' buy-in of the project together with their dedication and commitment to meet the targets and objectives of the Project	<ul style="list-style-type: none"> Revisit the ESSMP and assess if indicated mitigating measures are implemented. Number of IEC activities being tracked, attendance of target participants and materials generated are being uploaded in the website or rolled out. Number of complaints Number of NOV's Number of incidents and accidents are also being noted. The 3 facilities established by the project have their own Pollution Control Officers and their ESMP are being reviewed on a quarterly basis.
	Resistance from informal sectors involved in WEEE collection and dismantling to modify their operations	Partnering with NGOs with very specific experience in cooperating with informal sectors with the specific role to increase awareness and promote the shifting toward the establishment of formal waste collection operation, linking them to the formal network or providing alternative livelihood options EWC engagement; Financial feasibility and Continuous consultative meetings and focus group discussions with the officials of the "association of informal workers or magbabaklas" are being undertaken by EcoWaste Coalition, immediate concerns of the group are immediately elevated to the PMU 15 engagement with stakeholders' with the assurance that the implementation of the project will follow a financial model that their current income from collecting waste will not be hampered plus the benefits of managing WEEE in an environmentally sound manner.	<ul style="list-style-type: none"> Continuous consultative meetings and focus group discussions with the officials of the "association of informal workers or magbabaklas" are being undertaken by EcoWaste Coalition, immediate concerns of the group are immediately elevated to the PMU. Sustainable phase of the 2 facilities for e-wastes are being prepared by the EcoWaste Coalition. As part of their preparations for the sustainability phase, NRDC is regularly revisiting the Business plan prepared in 2021. This is their basis in preparing forecast until 2027.

	Covid-19 related risks to operation of the facility and meeting the required targets for treatment	Review and revise operational procedure to include DOLE/IATF requirements such as social distancing and temperature/daily health check Operational safety controls such as disinfection procedure and additional PPEs shall be implemented Employ virtual communication process for the delivery and hauling of PCBs and WEEE	<ul style="list-style-type: none"> Project will issue an advisory to project partners to comply with IATF requirements by reviewing installed protocols and operational controls such as PPEs, acceptance procedures and communication plan
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ESMP in the E waste facilities in Bagong Silang

The ESMF checklist used for the facility covers eight (8) laws and provisions namely: Operational Safeguards; General EHS Laws; Chemical Management; Solid and Hazardous Waste Management; Air Quality; Water and Wastewater Quality; Energy Generation/Consumption; and Revised Fire Code.

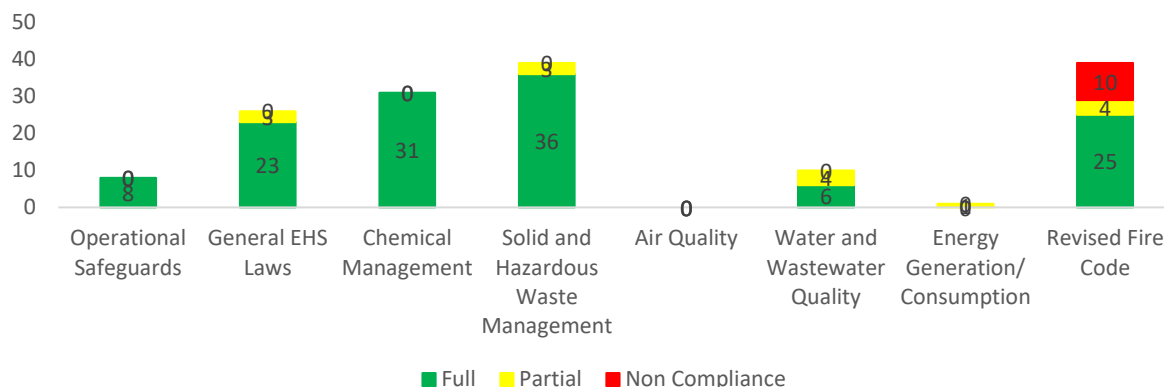
As a way forward, the facility shall strive to increase full compliance measures as against the partial and non-compliance items.

Classification	Full	Partial	Non Compliance	% Compliance	Previous
Operational Safeguards	8	0	0	100%	100%
General EHS Laws	23	3	0	94%	100%
Chemical Management	31	0	0	100%	100%
Solid and Hazardous Waste Management	36	3	0	96%	100%
Air Quality	0	0	0	#DIV/0!	NA
Water and Wastewater Quality	6	4	0	80%	100%
Energy Generation/ Consumption	0	1	0	50%	100%
Revised Fire Code	25	4	10	69%	97%
TOTAL	129	15	10	88.64%	99.41%

Status of Compliance	Compliance Items
Full Compliance (F)	129
Partial Compliance (P)	15
Noncompliance (N)	10
TOTAL	154
% Compliance $\frac{(F \times 1) + (P \times 0.5)}{(F + P + N)}$	88.64%

ESMP

Compliance Status



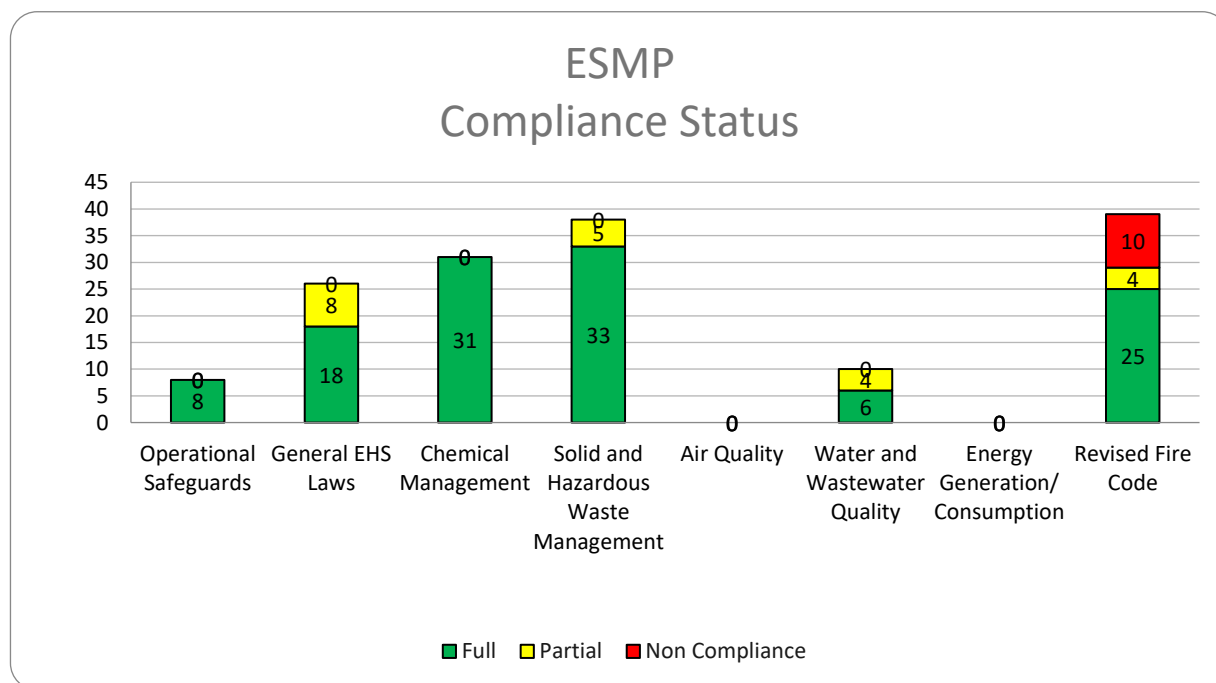
Recommendations	Progress in the E waste facility in Bagong Silang
I. Inclusion of secondary KPIs for facility-specific social (employee data, attrition rates, benefits, among others); environmental (water consumption, wastewater generation, energy consumption, waste generation) and Safety (number of incidents, first aid, medical treatment, safe man days, lost time injury among others) metrics to be monitored regularly. These data requirements will be helpful in their reportorial compliance such as the Self Monitoring Reports (SMR), Compliance Monitoring Report (CMR) and Occupational Safety and Health (OSH) Report	Monitoring has not been formalized but there is existing monitoring of the following: 1. water consumption 2. energy consumption 4. waste generation
II. Continuous use and updating of the Environmental and Social Compliance Checklist, with ready summary in tables and graphs, to enhance compliance including COVID-19 management, Fire Code of the Philippines and OSH. This also ensures that all permits are updated and valid. Tracking of water consumption, waste generation and power/fuel consumption shall be continued since these are quantitative measures in calculating Greenhouse gas (Ghg) emissions especially for Scopes 1, 2 and 3. These resource efficiency targets may be included in the Environmental and Social dashboard as shown in Annex 3.	ESMP has been updated. Facility is complying with IATF on COVID management. Water consumption and generation are being tracked. Water, electricity and Fuel consumption are being monitored.
III. Environmental and social safeguards are embodied in the processes, however, these may be reiterated by the issuance of commitment or policy by the operators or management of the PCB and e-waste facilities. Among these policies, but not limited to, are the following: a. no forced labor b. no child labor c. no discrimination and equal opportunities d. quiet resilience e. business continuity and sustainability	E waste facility at the minimum complies with the existing labour laws. (No force labor, no child labor, no discrimination of staff, all are given opportunities, men and women)

ESMP in the E waste facilities in Dampalit

Classification	Full	Partial	Non Compliance	% Compliance
Operational Safeguards	8	0	0	100%
General EHS Laws	18	8	0	85%

Chemical Management	31	0	0	100%
Solid and Hazardous Waste Management	33	5	0	93%
Air Quality	0	0	0	#DIV/0!
Water and Wastewater Quality	6	4	0	80%
Energy Generation/ Consumption	0	0	0	#DIV/0!
Revised Fire Code	25	4	10	69%
TOTAL	121	21	10	86.51%

Status of Compliance	Compliance Items
Full Compliance (F)	121
Partial Compliance (P)	21
Noncompliance (N)	10
TOTAL	152
% Compliance $\frac{(F \times 1) + (P \times 0.5)}{(F + P + N)}$	86.51%



E waste facility in Dampalit

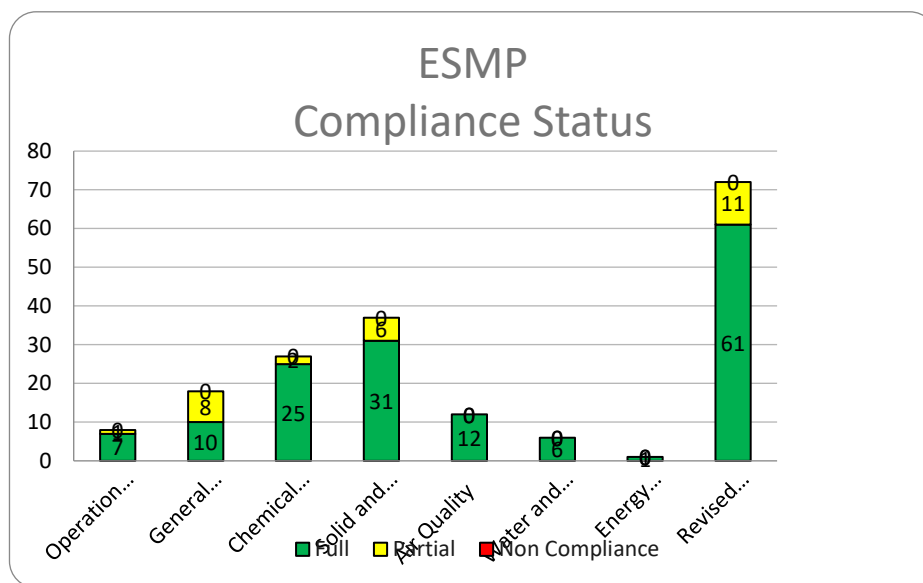
Recommendations	Progress in the E waste facility in Dampalit
I. Inclusion of secondary KPIs for facility-specific social (employee data, attrition rates, benefits, among others); environmental (water consumption, wastewater generation, energy consumption, waste generation) and Safety (number of incidents, first aid, medical treatment, safe man days, lost time injury among others) metrics to be monitored regularly. These data requirements will be helpful in their reportorial compliance such as the Self Monitoring Reports (SMR), Compliance Monitoring	Monitoring has not been formalized but there is existing monitoring of the following: 1. water consumption 2. energy consumption 4. waste generation

Report (CMR) and Occupational Safety and Health (OSH) Report	
II. Continuous use and updating of the Environmental and Social Compliance Checklist, with ready summary in tables and graphs, to enhance compliance including COVID-19 management, Fire Code of the Philippines and OSH. This also ensures that all permits are updated and valid. Tracking of water consumption, waste generation and power/fuel consumption shall be continued since these are quantitative measures in calculating Greenhouse gas (Ghg) emissions especially for Scopes 1, 2 and 3. These resource efficiency targets may be included in the Environmental and Social dashboard as shown in Annex 3.	ESMP has been updated. Facility is complying with IATF on COVID management. Water consumption and generation are being tracked. Water, electricity and Fuel consumption are being monitored.
III. Environmental and social safeguards are embodied in the processes, however, these may be reiterated by the issuance of commitment or policy by the operators or management of the PCB and e-waste facilities. Among these policies, but not limited to, are the following: a. no forced labor b. no child labor c. no discrimination and equal opportunities d. quiet resilience e. business continuity and sustainability	E waste facility at the minimum complies with the existing labour laws. (No force labor, no child labor, no discrimination of staff, all are given opportunities, men and women)

ESMP in the Non-Com POPs Facility

Status of Compliance	Compliance Items
Full Compliance (F)	154
Partial Compliance (P)	28
Noncompliance (N)	0
TOTAL	182
% Compliance	92.31%

Classification	Full	Partial	Non Compliance	% Compliance	Previous	Total
Operational Safeguards	7	1	0	94%	100%	
General EHS Laws	10	8	0	78%	100%	18
Chemical Management	25	2	0	96%	100%	27
Solid and Hazardous Waste Management	31	6	0	92%	100%	37
Air Quality	12	0	0	100%	100%	12
Water and Wastewater Quality	6	0	0	100%	100%	6
Energy Generation/Consumption	1	0	0	100%	100%	1
Revised Fire Code	61	11	0	92%	97%	72
TOTAL	146	27	0	92.31%	99.41%	173



The ESMP compliance report prepared for the project in 2022 – 2023 included several recommendations and the progress of implementation in the Non Com POPs facility are included below:

Recommendations	Progress in the Non Com POPs Facility
I. Inclusion of secondary KPIs for facility-specific social (employee data, attrition rates, benefits, among others); environmental (water consumption, wastewater generation, energy consumption, waste generation) and Safety (number of incidents, first aid, medical treatment, safe man days, lost time injury among others) metrics to be monitored regularly. These data requirements will be helpful in their reportorial compliance such as the Self Monitoring Reports (SMR), Compliance Monitoring Report (CMR) Occupational Safety and Health (OSH) Report	Monitoring has not been formalized but there is existing monitoring of the following: 1. water consumption 2. wastewater generation 3. energy consumption 4. waste generation Sludge: 0.28 tons Porous: 0.06 tons Laboratory: 0.004 tons 5. Safety (number of incidents, first aid, medical treatment, safe man days, lost time injury among others)
II. Continuous use and updating of the Environmental and Social Compliance Checklist, with ready summary in tables and graphs, to enhance compliance including COVID-19 management, Fire Code of the Philippines and OSH. This also ensures that all permits are updated and valid. Tracking of water consumption, waste generation and power/fuel consumption shall be continued since these are quantitative measures in calculating Greenhouse gas (Ghg) emissions especially for Scopes 1, 2 and 3. These resource efficiency targets may be included in the Environmental and Social dashboard as shown in Annex 3.	ESMP has been updated. Facility is complying with IATF on COVID management. Facility has an updated Fire Safety permit from Bureau of Fire Protection – Mariveles. Water consumption and generation are being tracked. Fuel consumption is being monitored.
III. Environmental and social safeguards are embodied in the processes, however, these may be reiterated by the issuance of commitment or policy by the operators or management of the PCB and e-waste facilities. Among these policies, but not limited to, are the following: a. no forced labor b. no child labor c. no discrimination and equal opportunities d. quiet resilience e. business continuity and sustainability	Non Com POPs Facility at the minimum, complies with existing labour laws. (No force labor, no child labor, no discrimination and equal opportunities)

V. Stakeholder Engagement

1. Using the previous reporting period as a basis, please provide information on **progress, challenges and outcomes regarding engagement of stakeholders in the project (based on the Stakeholder Engagement Plan or equivalent document submitted at CEO Endorsement/Approval).**

The project continued to engage different various stakeholders throughout the implementation of the project and has received their full support and commitment. Project-wide stakeholders include the Department of Environment and Natural Resources/Environment (DENR) - as implementing agency, Environmental Management Bureau (EMB) Development Bank of the Philippines (DBP) as part of the financial institutions, Natural Resource Development Corporation (NRDC), National Electrification Administration (NEA) are all represented in the Project Steering Committee and chaired by the Undersecretary or Vice Minister of Environment. Project workplan and major agreements are cleared by the PSC, at least 14 meetings had been organized. The Technical Working Group supporting the PSC is lead by the EMB and participated in by the technical staff from DENR, NEA, NRDC, EcoWaste Coalition which represents the civil society, MRF/TSD facility which came from the Local Government Units (LGUs) and Integrated Recycling Industries, Inc. (IRI) which is the private sector partner.

Review of the project's Environmental and Social Monitoring Framework (ESMF) was prepared in 2022 and is being updated by the project team and the project partners. As per report, the project has accomplished 85-95% compliance to applicable regulations.

Component 1

PROGRESS

Stakeholders in the project sites

- During the initial phase of the project, the informal sector were engaged through focal group discussions, meetings and trainings. The women and the informal sector engaged as e-waste busters are providing the CRTs to the 2 e-waste facilities. The barangay chairman is supportive of the e waste facility, and he hosted the recent visit of the meeting of the GEF Secretariat and the "women" stakeholders in the barangay hall.
- Visitors to the 2nd e waste facility in Dampalit, Malabon included the vice mayor and council members during its launching and the city Mayor when it was already operational.
- Regular meetings are being undertaken with the barangay chairman and officials of Bagong Silang and Dampalit, to ensure that the sustainability plans are prepared.

Local government units engaged by EMB Regional Offices

- In August 2022, EMB Central office issued an order to selected EMB Regional Offices to organize e waste collection events in their respective regions. EMB Region 1 organized a province wide initiative, with the participation of provincial officials and at least 14 Municipalities. During the said event, at least 287 officials from the provincial to the municipal level were engaged. During that period, lectures and meetings with the LGU were conducted by the HWMS of EMB Region 1 to ensure support to an e waste collection event (1 week) being proposed. The project provided the usual hauling of the e wastes. Similarly, EMB Region 5 and CAR organized e waste collection events (1 day) in their cities. All works of the EMB ROs were posted in their social media accounts.
- In September 8, 2022, an agreement was signed by Mayor Artur Robes of CSDM, DENR Undersecretary and the village chief of Bagong Silang, Caloocan City to ensure that the WEEE from the said municipality will be treated in the Bagong Silang WEEE facility. The event was participated in by the, council members of the CSDM, 55 barangay chief, EMB and DENR officials (Undersecretary and 2 Directors), EcoWaste Coalition, and UNIDO Country Representative. During the signing ceremony, the e waste mascot was presented.

Private Sector Partners

- In June 2023, a simultaneous e waste collection event was organized. Additional LGUs were engaged, and private companies and condominiums who all requested conduct of e waste collection of their households wastes.
- Sustainability plan retains the active role of the junkshop and magbabaklas as operators of the facility in Bagong Silang.
- In December 2022, the project held a stakeholders meeting inviting DENR and EMB officials, project partners in the government including the local government units. Further, partners from the private sector were invited, included Globe Telecom and Smart/PLDT. In January 2023, Smart/PLDT initiated meetings with the project as they expressed intention to initially finance awareness raising activities of the project in selected sites. After 4 meetings with the PMU and Smart/PLDT, In June 2023, the latter informed the PMU that their office intend to support the establishment of an e waste facility. The draft Cooperation Agreement with the project and Smart/PLDT is being finalized..

Challenges

- It was raised that not all LGUs are aware of the aware of the e-waste projects, thus, there is a need to mainstream e waste management with the LGU or even within the EMB.
- Considering that the capacity of the operations of an MRF/e waste facility is classified to undergo a full EIA process, the concern is on how the LGUs can undergo the EIA Process.

- Special permits were issued for the project's e waste collection event, however, there would be a need for EMB to institutionalize the system of collection from households and from households to MRF/e waste facilities
- One of the concerns raised by the group who will be managing the e waste facility of Bagong Silang after the project was the disposal of the PBDE contaminated plastic casing.

The success of the operations of the 1st e waste and 2nd e waste facility lead to the following:

- The project selected by the GEF Secretariat to be visited during their Mission to Manila in January 2023.
- Visit of the UNIDO Director General to the Bagong Silang WEEE facility, September 2022
- Learning Mission of Barangay Bakakeng, Baguio City and City CEPMO to the 2 WEEE facility, May 2023
- Learning Mission of Indonesia, June 2023
- Project activities posted in the DENR calendar, DENR FASPS quarterly bulletin, FASPS website, EMB website, UNIDO website and GEF website. This is presented in the KM section
- Project team was requested to provide talks in several forum. During the period of the simultaneous e waste collection event, the project team were invited in several forum to talk about e waste management. A. Smart/PLDT's EHS week b. Ewaste management sa isla <https://www.youtube.com/watch?v=9eLLC7juN2c&t=2610s>
- At least 2 condominium (DMCI and Megaworld) entered into a MoA with Barangay Dampalit for them to collect their e waste even beyond the project phase.
- Interest of Smart Telecom another major telecommunications to support an e waste facility

OUTCOME

In summary the outcome are as follows:

- The 2 e waste facilities serves as a demonstration that an MRF can be developed to an e waste facility and that e waste collection is possible, provided that one taps good partners.
- Partnership with the private sector (Globe Telecom) were made possible by the project and another partnership with SmartPLDT is in the development stage, which lead to additional funding for the operations of the e waste facilities.
- E wastes from households collected and these were diverted from the landfill or dumpsites (8 tons), and 254 tons of Pb containing glass. The recyclable materials from the e waste collected will support circularity of EEE
- Draft Ordinance on e waste management prepared and this could be used as template of other cities/municipalities.
- Signing of agreement for the sustainability phase
- KM, please include the report of Baguio City and CAR.
- Agreement with Holcim Company was entered into by the Barangay to enable the former to collect the PBDE contaminated plastic casings from the e waste facility at no cost.

Component 2 – PCB Management

Progress

The EMB Regional Offices were engaged to enjoin ECs in availing of the project subsidy. Further, PHILRECA has also joined several meetings organized by the PMU and NRDC. PHILRECA who is working with the ECs organized several meetings with the ECs.

Challenges

PCOs of the ECs have been engaged in several meetings, however, the aim of the project is not being achieved with the strategies that are being undertaken.

Further, concerns on the PCB facility have been raised in several senior management meetings, which include at least 2 deputy ministers, and the presidents of PNOC and NRDC, NEA director and PHILRECA president. There is a need for the project to rethink of the strategy to reach more stakeholders who will take on more contracts.

Component 3 Awareness Raising

Progress

For both component 1 and 2, EcoWaste Coalition has arranged several stakeholders meeting in the project sites and has organized the following activities: a. forum b. consultative meetings c. podcast d. webinar, all of this aim to increase awareness of different stakeholders. Most activities are already reported under component 1.

Challenges: There is still a need to increase awareness on the e waste collection from households and the PCB management from the ECs. Aileen

Outcome

The awareness raising activities of the project are organized by EcoWaste Coalition. However, EMB Central office has also enjoined their counterparts to launch awareness raising activities on e waste management in August 2022 during an e waste collection event for Region 1 and 5. Most activities of the said Regional offices were featured in the social media (facebook)

In webinars, EcoWaste Coalition has engaged the active participation of the youth and children for the recently launched “e waste channel”, in the viewership analyzed by EcoWaste Coalition, most viewers are women.

Component 4 – Monitoring & Project Management

In July 2022, the project organized an Assessment Workshop for the project activities and in preparation of the PIR 2021-2022. The event was participated in by the project team, with Mr. Ed Abugan FASPS and EMB EQMD chief, Mr. Marcelino Rivera participating in the assessment workshop. The inputs of all project team members were sought in the preparation of the PIR. Mr. Lee from IRI likewise participated in the workshop.

2. Please provide any feedback submitted by national counterparts, GEF OFP, co-financiers, and other partners/stakeholders of the project (e.g. private sector, CSOs, NGOs, etc.).

COMPONENT 1 AND 2

In September 2022, DENR Usec Leones attended the Ceremonial Signing of the Cooperation Agreement between the Bagong Silang Ewaste Facility and the City of San Jose Del Monte, Bulacan. This marked the first step towards the sustainability of the ewaste facility, even after the project ends. In his speech, he said, “We at the DENR are now enjoining different offices/ bureaus, Regional and Provincial Offices to work with cities, and this event today should be the start of our partnership on proper e waste management. E wastes, particularly old TVs and computers are known to be contaminated with brominated compounds, which are classified as persistent organic pollutants, thus, the DENR has several projects with international agencies such as the United Nations Industrial Organization (UNIDO) to ensure that multilateral environmental agreements that the Senate has ratified are implemented. In this case, the project entitled “Implementation of PCB Management Programs for e waste management” is supporting the provisions of the Stockholm convention on POPs to protect the environment and human health from persistent organic pollutants.”

City of San Jose Del Monte, Bulacan, Mayor Arthur Robes

In the same event as above, Mayor Arthur Robes emphasized, “We are very fortunate to be part of this Cooperation Agreement. Aside from supporting e-waste collection events and capacity-building activities, we will also develop and adopt Municipal Resolutions supporting e-waste management in our LGU. Let us all work together to improve and support the city’s e-waste initiatives.”

Brgy. Bagong Silang, Caloocan City, Chairman Joel Bacolod

Hon. Joel Bacolod was also a principal signatory of the Cooperations Agreement above. He emphasized, “I am truly grateful for this cooperation agreement signing between the project, City of San Jose Del Monte, Bulacan and Brgy. Bagong Silang, Caloocan, in order to address the rising issues brought out by the improper management of household special wastes, such as electronic waste.” He also said, “So, let us give a round of applause to UNIDO, DENR, EMB, and Ecowaste Coalition. Our doors are always open to do more cooperations to different barangays and home owners associations who would like to follow what the City of San Jose Del Monte had done. We are happy to be a part of this endeavour and be a part of what you have started in order to protect human health and the environment from the toxic effects coming from the improper management of ewaste. *Mabuhay!*”

UNIDO Director General, Mr. Gerd Muller:

In September 2022, the e waste facility in Bagong Silang, Caloocan City was visited by the UNIDO Director General. During his visit, the UNIDO Director General Mr. Gerd Muller personally witnessed the operation of one of these facilities in Brgy. Bagong Silang and met with the 8 operators, and the local government unit. He said, “The training here is a great example of how, with one project, we can find solutions to many issues with one action. We see skills development and the creation of green jobs. We see international technology and knowledge transfer. We see a circular economy approach. And we see protection of the environment that we all share. This is the innovative approach. These are the solutions we need!”

City of Baguio, Mayor Benjamin Magalong:

In November 2022, during the ceremonial signing of a partnership (Cooperation Agreement) between the city of Baguio City, the DENR and EMB officials and the project, Hon. Magalong said, “We hope that this project of UNIDO/DENR/GEF will not be a short-term program, but that this would be sustainable for the city of Baguio that will cater to all households in the city of Baguio. We hope to also collect e waste in the future and not just municipal wastes. Sustainability is about protecting our environment.” A follow up activity was undertaken in Baguio City during the simultaneous e waste collection event organized by the project. This was participated in by at least 2 local government units, including Baguio City Mayor Benjamin Magalong in an interview on UNTV shown on 29 June 2023 enjoined his constituents to dispose of their e wastes “All your electronic and electrical appliances i.e. laptop, that are no longer working, you can already dispose of it and we will collect it through our e waste collection drive.”

DENR Regional Executive Director Ralph Pablo:

One of the principal signatories of the Cooperation Agreement Signing in Baguio City is CAR RED Pablo, where he said, "Heavy metals such as Sb, As, PBDE coming from e waste can contaminate our water and soil that could also contaminate our food, which cause threats to our health, thus, we would need to address this concerns."

Province of La Union Governor, Ms. Rafaella Veronica Ortega – David:

Governor Raphaelle gave her assurance and full-blanket support and commitment not only to the E-waste Collection Event but also to succeeding environmental activities and programs. According to the Governor, this kind of events are in-line with her goal to make the Province of La Union as the Heart Agri-Tourism in Northern Luzon by 2025

City of San Fernando, La Union, City Councillor, Mr. Pablo C. Ortega:

Mr. Ortega, in a privilege speech during the 14th session of the Municipal Council's meeting of the province of La Union, 300 km of Metro Manila said, "As the committee chair of the SP Committee on Environment, Human Ecology and Security, and a personal advocate to pave a bright and safe environment for the future generations, let us be the cause of care for our environment and let us create an awareness to save our planet today for a promising future." He then requested for the support of the 200,000 households in the Province through the Punong Barangays of the 576 Barangays in the Province of La Union to participate in the E- waste disposal Event this October to be facilitated by the Provincial Government of La Union through the Provincial Environment and Natural Resources office (PENRO) in partnership with United Nations Industrial Development Organization (UNIDO) and the Department of Environment and Natural Resources (DENR).

The event was participated in by at least 14 municipalities and provinces of La Union. The event resulted in the collection of 3 tons of e wastes. Prior to the actual e waste collection event, EMB Region 3 lead by Regional Director Ma. Dorica Daz – Hipe mobilized the Hazardous Waste Section of EMB Region 1 and conducted several stakeholders meeting participated in by around 287 barangay heads and personnel (202 male and 85 female). The stakeholders included LGU officials from at least 14 municipalities in the province of San Fernando City.

Stakeholders Workshop – December 2023

The various stakeholders and partners of the project then gave a few messages of support and commitment, as follows:

- Kagawad. Danilo Bacolod represented Barangay Bagong Silang, Caloocan City and in his message, he thanked the project once again for choosing their barangay to hold the country's first TSD Facility for E-waste and they would be looking forward to the sustainability of the facility
- Mr. Jericho Martinez from the Development Bank of the Philippines (DBP) gave his message of support for the project. The DBP has always been an active partner of the project since its implementation, especially under the PCB Component of the project.
- Mr. Lee Echiverri from the Integrated Recycling Industries, Inc. (IRI) Philippines shared about his experience working with the project and all stakeholders involved, coming from the government and private institutions. IRI has been the project's active partner under its Ewaste component, helping in the collection of e-waste (CRT TVs) and overseeing the operations of the TSD Facilities including the training of the IWS into formal waste dismantlers.
- Dir. Federico Villar from the National Electrification Administration (NEA) also gave his message of support, emphasizing as well on the need to assist and push the electric cooperatives in disposing their PCBs to meet the country's targets. He rest assured that NEA will be coordinating with the Electric Cooperatives to support the project and the PCB Facility as well.
- Mr. Aldrin Bayangos from Globe Telecommunications gave his message on behalf of Ms. Apple Evagelista. They were thankful for being allowed to participate in the project, especially in its e-waste initiatives. Globe has assisted in the establishment of the country's 2nd e-waste facility in Barangay Dampalit, Malabon

2023

Ms. Leah Kerrer (GEF Sec Team Lead):

In January 2023, the GEF Secretariat from the GEF Head Office in New York visited the Dampalit TSD Facility and was able to participate in an Open Dialogue with the Women Ewaste Dismantlers. Ms. Kerrer said, "Working with the private sector, working with Globe to get an entire truck donated, working with the community to get the building built – these are ideas and experiences that we can share with other projects all over the world. So, thank you."

Ms. Ikuko (GEF Sec Knowledge Sharing):

"I heard about this project in the first place as one of the best practices on gender, but learning more and more on the project, I notice it's not only on the gender mainstreaming, but also CSO engagement, CSO in the field travelling a lot with the local communities and also the private sector engagement, which is not only a big company, but a local company as well which we try to encourage more."

Mr. Yuki (GEF Sec Chemicals and Waste):

"One of the things I found most interesting is that this facility is running in a sustainable manner in terms of economics, in terms of socio, everything is running sustainably and I found also important. Because even after the project, I heard that the project will end soon and that I hope the momentum of this facility will continue beyond the project scope. So that is what we want to see. Salamat!"

Ms. Verona (GEF Sec Gender Expert):

"Can I just say one word that really struck me. This slogan, "Ewaste to! Iwasto!" Which literally translates to, this is e waste, let's make it right. It is a play on words. I really love it and congratulations to the CSO who thought of this – Ecowaste Coalition. It's very beautiful, and we will carry that forward."

Tri-partite Agreement Signing and Turnover of the Vehicle to Brgy. Dampalit

IRI – Plant Manager, Mr. Lee Echiverri:

"Firstly, I would like to commend the perseverance of UNIDO, EMB and Ecowaste to really push through with the activities of the project, and the focus of the Barangay, this signing would not have happened. If the barangay and the informal waste sector hadn't been open minded on the project, since we are not used to this kind of setting, we would not be able to see the real effects of improper ewaste management and know the things we should do to protect our environment and communities. Congratulations to everyone. This setting is like a race. This means that now, we are passing the baton to the Informal Waste Sector, for them to bring it to the finish line. I hope we can continue this great example, being the biggest barangay in the country, you are also the first to have this kind of facility. And we can see now that a lot of other LGUs want to follow what you have started."

Leaders from the Informal Waste Sector, Mr. Eduardo Bernales and Mr. Benedicto Nario:

In May 2023, a Tri-partite Agreement was signed between the Informal Waste Sector, the Barangay and the TSD Facility. "The project has given us an opportunity to make a positive impact in our community through responsible e-waste management. We thank the organizations for recognizing the crucial role of KASAMAJ in their endeavours. With their support and guidance, we are committed to enduring the success of the TSD Facility for e-waste," expressed Mr. Bernales. Mr. Nario added, "the donated vehicle will immensely enhance our operational capabilities and enable us to efficiently collect and manage e-waste materials in our communities. This milestone agreement marks a significant step forward in promoting responsible e-waste management in the country. The signing of the Tripartite Agreement and the vehicle turnover are significant indications of the commitment and collaboration required to address critical waste management challenges in the Philippines."

Simultaneous Ewaste Collection & Culminating Activity

DENR-EMB Assistant Secretary Gilbert Gonzales:

"Since this project has been feasible, we are now looking into developing this e waste activity into a regular program for the DENR – with some modifications on the scheme and involving the private sectors and the LGUs as they also play a significant role in the undertaking of this project." He also highlighted the success of the e waste collection in Baguio city where in just 5 days, a total of around 2 tons of household e waste were collected. He said, "with the feedback that we got from Baguio City, we'd like to publish this and share with other LGUs that this is an important concern on the environment and also the DENR Secretary, that we are moving towards a bigger scale of undertaking these measures on waste."

DENR-FASPS Director, Mr. Al O. Orolfo:

Dir. Orolfo gave a speech in the e-waste collection on the first day of collection. He said, "I am enjoining all DENR personnel to take the opportunity to dispose their household e-waste properly through the e-waste collection event we have here at the DENR Grounds. Let us all come together to take care of our environment through the proper collection of e-waste." During the culminating activity after the collection week, he stated that there is definitely a need to manage PBDEs in e waste because of its impact on our health and the environment. He said, "Today, as we witness the signing of Agreements, we hope that this will serve as inspiration for us in the government to continue working on the "institutionalization or sustainability" of e waste collection or management. We hope that these efforts are aimed to inspire all of us to continue and work beyond this UNIDO/DENR/GEF funded projects."

DENR-EMB Assistant Director, Ms. Esperanza Sajul:

She reiterated her thanks for the partners as through them, the people know where they can drop their e waste. She said, "in the future, I hope we can still think of new ways how to collect more e waste and manage them properly. Hopefully, we can sustain these kinds of collection drives to highlight the importance of properly managing these kinds of wastes."

The audio-visual documentation and in several interviews with the DENR officials, together with NEA Director and PHILRECA president, showed their commitment to support the project. The AVR was presented during the PCB Fair.

DENR, Undersecretary for Finance, Information Systems and Climate Change and GEF-OFP

"Through the project, our country will be able to implement policy instruments issued by the government such as the Republic Act 6969 also known as "Toxic Substances, and Hazardous and Nuclear Wastes Act of 1990" and other related guidelines. In addition to this, the project was able to contribute in the saving of dollar reserves of the country due to reduced exportation to other countries." She also said, "As GEF OFP, I would like to take this opportunity to thank GEF for approving projects demonstrating the use of non-combustion technologies and for UNIDO who conceptualized this kind of interventions for our country in 2008. Together with UNIDO and other countries who are parties to the Stockholm Convention on POPs, we will continue to support GEF Funded projects to ensure the phase out of PCBs by 2028 as part of our commitment to the Stockholm Convention on POPs."

DENR Undersecretary for Policy, Planning and International Affairs, Jonas R. Leones:

"The government of the Philippines, through the DENR commits to supporting the projects of the United Nations and Industrial Development Organization (UNIDO) and the Global Environment facility, and in particular the Non Combustion Facility for PCBs. We continue to commit to the provisions of the Stockholm Convention on POP's by ensuring a PCB free 2028."

DENR-EMB Assistant Secretary Gilbert Gonzales:

"We acknowledge and value the funding assistance that the Global Environment Facilities provide to supplement our program through projects and capacity building exercises. UNIDO has played a significant part in our PCB program through these projects, notable of which is the establishment of the Non-Com POPs Facility. The Non-Com Pops facility was the first in Asia and the Philippines to provide service in the destruction and disposal of PCB in an environmentally sound manner. Further, the establishment of the facility has generated jobs and provided us with the technical capability in the treatment of PCB contaminated equipment and oil. The facility is a symbol of our commitment to our mandate as well as to our obligation to the Stockholm Convention to eliminate PCB by 2028."

Executive Director – PHILRECA, Atty. Janine Colingan:

"Of course, with the partnership with UNIDO and DENR-EMB and with funding from the Global Environment Facility, the project has significantly reduced the cost for the ECs considering the subsidized treatment cost at \$2/kg of PCB oil and PCB containing. And we look forward for other ECs to venture into project and to maximize or fully avail subsidy or grant for the disposal up to 600 tons at \$2.00/kg of PCB oil and PCB-containing equipment," she further said, "Considering that PCBs are toxic and can pose health and safety risks to workers who handle them, the project helped eliminate the risk of exposure to PCBs and enhance safety for workers. Besides ensuring environmental protection and contributing in the compliance with the regulations on waste management and disposal, this project actually paved the way for the ECs to finally do away with transformers and other equipment with PCBs. PHILRECA will continue to be a staunch partner of UNIDO and DENR-EMB and will support all projects to reduce our environmental footprint while we continue our pursuit towards rural electrification and sustainable development."

National Electrification Administration (NEA) Engineering Department Manager – Mr. Federico Villar:

"We laud the efforts of the DENR-EMB, the United Nations Industrial Development Organization (UNIDO) for establishing a Non combustion facility in Bataan, Philippines. ECs have now the chance to dispose of their PCB oil/equipment that have been stored for a long time within their premises. We have already enjoined the ECs and other organizations (i.e. PHILRECA and NAGMEC) in continuously supporting the PCB facility and we would like to take the opportunity to thank the Global Environment facility (GEF) for supporting projects aimed to manage the PCB oil and transformers of the electric cooperatives."

Ecowaste Coalition, Adviser – Mr. Manny Calonzon:

"The establishment of a facility for the safe destruction of PCBs in the Philippines, the choice of a close loop, highly efficient and safe non-combustion technology which does not yield by-product pollutants like dioxins, attracted civil society's involvement."

3. Please provide any **relevant stakeholder consultation** documents.

Gdrive Link: [9078_PIR 2023_Relevant Stakeholders](#)

Project Steering Committee Minutes – prepared by UNIDO PMU and noted by DENR-EMB:

- 9078_MOM_15th PSC Mtg_November 04, 2022

Project Status Report (PSR) – prepared by DENR-FASPS and noted by DENR-EMB

- 9078_PSR PCB-WEEE_3rd Qtr 2022
- 9078_PSR PCB-WEEE_4th Qtr 2022
- 9078_PSR PCB-WEEE_1st Qtr 2023
- 9078_PSR PCB-WEEE_2nd Qtr 2023

Memorandum of Agreements (MoA) and Cooperation Agreements (CA) Signed

- 9078_Board Resolution_Brgy. Bakakeng Baguio City
- 9078_Coop Agr_E waste Facility Dampalit Malabon
- 9078_Coop Agr_Ewaste Collection_R1
- 9078_Coop Agr_Ewaste Collection_CAR

Project Annual Report – prepared by DENR-EMB

- 9078_EMB 2022 Annual Report

Project Technical Working Group Meetings

- 9078_MOM_TWG Meeting_08 Jul 22
- 9078_MOM_TWG Meeting_04 Aug 22
- 9078_MOM_TWG Meeting_06 October 2022

- 9078_MOM_TWG Meeting_12 Jan 2023
- 9078_MOM_TWG Meeting_16 Feb 2023
- 9078_MOM_TWG Meeting_13 Mar 2023
- 9078_MOM_TWG Meeting_30 Mar 2023
- 9078_MOM_TWG Meeting_08 June 23

Relevant Stakeholders Meeting

- 9078_Highlights_Mid-Year Assessment & PIR Workshop_21-22 Jul 22
- 9078_Highlights_Stakeholders Workshop_20 Dec 22

VI. Gender Mainstreaming

1. Using the previous reporting period as a basis, please report on the **progress** achieved on implementing **gender-responsive measures** and **using gender-sensitive indicators**, as documented at CEO Endorsement/Approval (in the project results framework, gender action plan or equivalent),.

Progress:

Review of the project's Environmental and Social Monitoring Framework (ESMF) and Gender Mainstreaming was completed by the UNIDO Consultant. The project ensures that gender related programs and initiatives and additional data are monitored. Further, during the GEF secretariat visit, the gender component of the project was emphasized in the meeting with the project stakeholders. The "women" from the association of dismantlers spoke during the dialogue and emphasize their roles as mothers and housewives, and at the same time, they were working to support their families. With the intervention of the project, they were enlightened on how they should be handling plastic casings (probably PBDE contaminated) and the Pb containing glasses. Prior to the project, dismantling was done in their houses and the residuals left around, thereby, although they were earning, they were contributing to solid waste load and even sources of heavy metals or POPs/

COMPONENT 1

At least 15 people are working in the 2 e wastes facilities, 13 of them are under IRI, while others are employed by the Barangay. The profile of the workers showing their ages and sex are presented below.

The profile of the operators in the e waste facility is as follows:

	Dampalit e waste facility	Bagong Silang e waste facility
Male	4	8
Female	1	1
LGBTQ	1	
Total	6	9

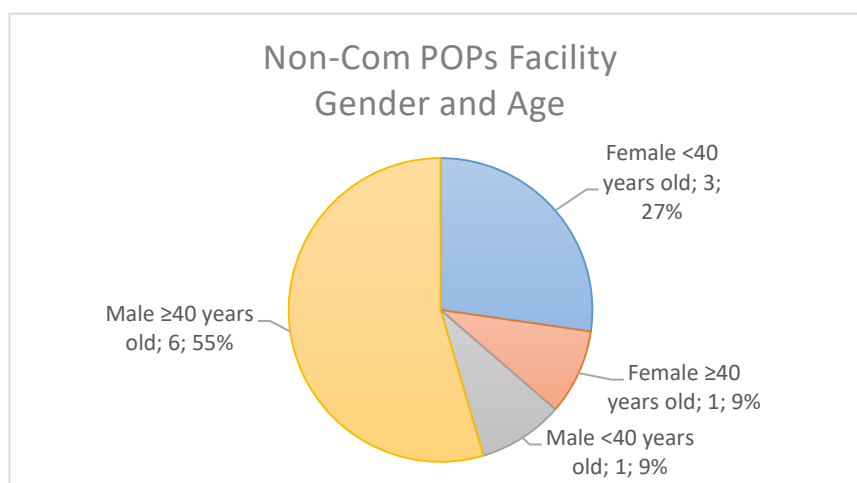
	Less than 40 years old	Age 30-40 years old	40 -50 years old	Above 50 years old
E waste facility Bagong Silang		4	4	1
E waste facility Dampalit	3		1	2

The data below shows the number of individuals met in the project sites and in e waste collection events to ensure the continuity of the collection of CRTs and e wastes to the facility.

PO Meetings	Meeting Title	Male	Female	Total
1. Capulong	Transition Plan	4	3	7
2. Longos	Transition Plan	5	2	7
3. Bagong Silang	Transition Plan	3	3	6
4. Camarin	Transition Plan	4	3	7
5. Meeting with SMBS	Transition Plan for BS TSD Facility	4	3	7
6. Meeting with SMSVFCCC	Transition Plan for BS TSD Facility	4	4	8
7. Meeting with NLML	Schedule Plan of the delivery of TV Sets in Dampalit TSD Facility	5	5	8
8. Capulong	Schedule Plan of the delivery of TV Sets in Dampalit TSD Facility	4	3	7
9. Longos and Capulong	Preparation for the TSD Operation in Dampalit	8	7	15
10. Bagong Silang and Camarin	Updating about the May 20 Meeting with Barangay Chairman Bacolod with the 2 IWS Presidents	3	0	3
11. Meeting with Dampalit TSD Personnel	Re-orientation and Training of Drivers and Helpers	3	2	5
12. Longos and Capulong	Opening of Bank Account and Schedule of TV Delivery in Dampalit TSD	8	7	15

COMPONENT 2

In the Non Com POPs facility, there are 10 employees (3 female and 7 male workers). Although there are more male workers in the Non Com POPs facility, the female electrical engineer acts as the acting plant manager and the chemist in the laboratory (heart of the facility) is a female. The 2 female workers are occupying more strategic roles than their male counterparts. There is no disparity in the salaries of the male and female operators.



The project has been continuously meeting with contractors/haulers and has noted that there are 31 male and 23 female met. The contractors include the transporters, suppliers, service providers.

In the main office of NRDC, there are 4 staff supporting the operations of the facility. The meetings with PCB owners were organized by NRDC, EMB and even PHILRECA. Although the ECs and general managers are comprised mainly of male, the president of PHILRECA is a female. She is part of the video documentary prepared by UNIDO for the PCB Fair Workshop in the SCB COP in Geneva, Switzerland held in May 2023.

Meetings with PCB owners were organized by NRDC, EMB and even PHILRECA. Although the ECs and general managers are comprised mainly of male, the president of PHILRECA is a female. She is part of the video documentary prepared by UNIDO for the PCB Fair Workshop in the SCB COP in Geneva, Switzerland held in May 2023.

GEF Secretariat Visit and Dialogue with the Women e-waste Workers

The learning mission of the GEF Secretariat and dialogue with project stakeholders was participated in by 9 members of the GEF Secretariat, led by Ms. Leah Karrer. They visited the MRF/TSD facility of Barangay Dampalit Malabon City to conduct a dialogue with the stakeholders of the Safe PCB and E waste Project funded by the GEF and implemented by the DENR-EMB and UNIDO. The GEF Sec lauded the project as all aspects of a GEF project is being demonstrated. During the dialogue, Ms. Aileen Lucero together with the women representatives from the 4 project sites presented the baseline scenario and the impacts of the project to their livelihood and works as dismantlers in the roads. Ms. Leah Kerrer, the team head of the GEF Secretariat gave emphasis on the project's synergy, citing that working with the private sector, working with Globe to get an entire truck donated, working with the community to get the building built – these are ideas and experiences that we can share with other projects all over the world. After the successful event, the project was featured in the GEF Website highlighting the works of the Women Ewaste Dismantlers. One of the women, Ms. Joanna Amican was even invited to partake and share her experience with the project in the upcoming 7th GEF General Assembly in August at Vancouver, Canada.

Simultaneous Ewaste Collection Event & Culminating Activity

The project organized a simultaneous ewaste collection event in 7 sites within Metro Manila and 2 in Baguio City and San Jose Del Monte, Bulacan. The proposed partners consisted of DENR-EMB Regional Offices who have previously joined the project such as EMB R1, EMB CAR, EMB R5. Other EMB Regional Offices were also invited to take part in this event. LGU's were also invited as possible partners for the collections, including Baguio City, San Jose Del Monte City, Bulacan, Trece Martirez in Cavite, District 1 in Quezon City and Malila City - who. Telecommunication companies such as Smart/PLDT and Globe Telecom were also invited to take part in the collection. The objective of the activity was to promote awareness raising in all different sectors that include the LGUs, Government agencies, private companies, telecommunication companies, and in as much locations as possible and to enable the partners for this activity to lead in the proper management of household e-waste, through the assistance of the project. To close the Ewaste Collection Events and the environment month, the culminating activity of the simultaneous e waste collection events was held on July 03, 2023 at the executive building of the DENR-EMB. The activity was conducted to announce the various partners of the project during the e waste collections, as well as the ceremonial signing of the cooperation agreements and MOUs between the e waste facility of Dampalit, Malabon and the partners. The event was graced by officials from the DENR-EMB, DENR-FASPS and UNIDO. The culminating activity was shown live in the partners' Social Media platforms and was able to reach a total of 4,655 people, mostly women in various age groups.

Mainstreaming gender in the activities of the project lead to poverty reduction and protection of children and women from the negative effects of improper e waste management. The pride in the work of the women e waste busters/waste pickers were apparent as shown in the interviews they had during the International Woman's Day and was even featured by the GEF Secretariat during their visit last January 2023. For the past 6 years, the women workers were looking forward to specific activities organized by the project to highlight the International Women's Day and their role in the community.

The project continued to monitor the progress of gender responsive measures and gender sensitive indicators in the regular reports. The number of participants to project activities (i.e. webinars, meetings, trainings, orientations and awareness raising activities) for both Component 1 and Component 2 are summarized as follows:

Year	No. of Participants	Male	Female
2020	108	70	38
2021	733	428	305
2022	2766	838	928
2023	5186	2209	2977
Sub-Total	8793	3545	4248

The increase in the reach of the project in 2023 was still attributed to the use of social media (such as the FB Lives NS Youtube Lives and Online Meeting Platforms such as Zoom, MS Teams and Google meet) for most of the activities which has allowed for more people to have an access to the IEC materials and awareness raising activities of the project. The increase could also be attributed to the efforts of the EMB Central office and Regional Office in engaging stakeholders interested mostly in the management of their household e wastes.

The engagement and commitment of the right stakeholders are key to ensuring the successful implementation of the project. The project has managed to bring together the informal sector, the CSOs, the local government, the private sector and the national government. As a result of this, the project was selected by UNIDO to be one of the nominees for the GEF Good practices.

VII. Knowledge Management

1. Using the previous reporting period as a basis, please elaborate on any knowledge management activities / products, as documented at CEO Endorsement / Approval.

Similar to the previous PIR submission, the knowledge management implemented by the project includes a platform containing all generated reports of project contractors, consultants and monitoring reports. This includes as well the products of the Awareness Raising Component of the project for information dissemination.

Among the knowledge activities/products compiled by the project are the following:

Component 1 – E-waste Management

- Compilation of technical and financial data of the management of e wastes (i.e. quantity and cost of recyclable materials, disposal cost of glass containing Pb and management of plastic casings contaminated with PBDE)
- Environmental sampling of flue gas in the stack
- Awareness Raising activities pertinent to E-waste management
- You tube channel

Component 2 – PCB Management

- Compilation of PCB Management Plans of Electric Cooperatives who participated in the project with their inventory of PCB oil and PCB contaminated equipment, which include results of analysis of their PCB stockpile
- Publication and Adoption of MC 2022-01 on the analysis of PCB oil using the PCB screening equipment (CISE)
- Reports and Recommendations by UNIDO consultants based on PCB Management

Component 3 - IEC

- The Quad-media tools in awareness raising- videos, comics, training materials, workshops, activity reports, posters, infographics, website postings, newspaper articles, among others.
- Training Manual on POPs management

2. Please list any **relevant knowledge management mechanisms / tools** that the project has generated.

Drive link: [9078_PIR 2023_Knowledge Management](#)

Project Consultant Reports

- 9078_Report on PBDE Policies_Carlo Lupi
- 9078_Report on PBDE Waste Computation_Carlo Lupi
- 9078_Report on Policy Updates for PCB Transformers_Carlo Lupi
- 9078_Report on Transition of WEEE Facilities and Review of NRDC PCB Business Plan_Geri Ebrada

Relevant Technical Reports

- 9078_PCBWEEE Training Manual
- 9078_Progress Report_Bagong Silang TSD Facility_Q3 2022
- 9078_Progress Report_Bagong Silang TSD Facility_Q4 2022
- 9078_Progress Report_Bagong Silang TSD Facility_Q1 - Q2 2023
- 9078_Progress Report_Dampalit TSD Facility_Q3 2022
- 9078_Progress Report_Dampalit TSD Facility_Q4 2022
- 9078_Progress Report_Dampalit TSD Facility_Q1 - Q2 2023
- 9078_XRF Manual_PANO INGATAN ANG XRF ANALYZER

Event Posters

- 9078_Poster_WEEE_story line 1
- 9078_Poster_WEEE_story line 2
- 9078_Poster_WEEE_story line 3
- 9078_Poster_WEEE_story line 4
- 9078_Poster_WEEE_story line 5
- 9078_Poster_WEEE_story line 6
- 9078_Poster_WEEE_story line 7
- 9078_Poster_WEEE_Sustainability
- 9078_Poster_WEEE_TSD Facilities
- 9078_Poster_WEEE_Safe Dismantling
- 9078_Poster_WEEE_Together WEEE Can
- 9078_Poster_WEEE_Baklas Dito, Baklas Doon
- 9078_Poster_WEEE_Stakeholders Commitment
- 9078_Poster_WEEE_CRT Island
- 9078_Poster_WEEE_Ewaste Transporter

Infographics

- 9078_Infographics Baguio Ewaste Collection Event 2023_1
- 9078_Infographics Baguio_Ewaste Collection Event_1
- 9078_Infographics Baguio_Ewaste Collection Event_2

- 9078_Infographics Baguio_Ewaste Collection Event_3
- 9078_Infographics Baguio_Ewaste Collection Event_4
- 9078_Infographics Baguio_Ewaste Collection Event_5
- 9078_Infographics Baguio_Ewaste Collection Event_6
- 9078_Infographics Baguio_Ewaste Collection Event_7
- 9078_Infographics R5 Ewaste Collection Event_1
- 9078_Infographics R1 Ewaste Collection Event_1
- 9078_Infographics R1 Ewaste Collection Event_2
- 9078_Infographics R1 Ewaste Collection Event_3
- 9078_Infographics R1 Ewaste Collection Event_4
- 9078_Infographics R1 Ewaste Collection Event_5
- 9078_Infographics SMART-PLDT Ewaste Collection Event_1
- 9078_Infographics SMART-PLDT Ewaste Collection Event_2
- 9078_Infographics SMART-PLDT Ewaste Collection Event_3
- 9078_Infographics SMART-PLDT Ewaste Collection Event_4
- 9078_Infographics SMART-PLDT Ewaste Collection Event_5
- 9078_Infographics SMART-PLDT Ewaste Collection Event_6
- 9078_Infographics SMART-PLDT Ewaste Collection Event_7
- 9078_Infographics SMART-PLDT Ewaste Collection Event_8
- 9078_Infographics SMART-PLDT Ewaste Collection Event_9
- 9078_Infographics SMART-PLDT Ewaste Collection Event_10
- 9078_Infographics SMART-PLDT Ewaste Collection Event_11
- 9078_Infographics SMART-PLDT Ewaste Collection Event_12
- 9078_Infographics SJDM_Ewaste Collection Event_1
- 9078_Infographics SJDM_Ewaste Collection Event_2
- 9078_Simultaneous Ewaste Coll_1
- 9078_Simultaneous Ewaste Coll_2
- 9078_Simultaneous Ewaste Coll_3
- 9078_Simultaneous Ewaste Coll_4
- 9078_Simultaneous Ewaste Coll_5
- 9078_Simultaneous Ewaste Coll_6

Project Website

- www.ewaste.emb.gov.ph

Project Youtube Channel

- https://www.youtube.com/channel/UCB1gNWNvWtomdRJKI4vP_dg

High Quality Photos

PCB-WEEE

- 9078_TOT_1
- 9078_TOT_2

WEEE

- 9078_UNIDO DG Visit_Bagong Silang_1
- 9078_UNIDO DG Visit_Bagong Silang_2
- 9078_UNIDO DG Visit_Bagong Silang_3
- 9078_UNIDO DG Visit_Bagong Silang_4
- 9078_UNIDO DG Visit_Bagong Silang_5
- 9078_Ewaste Buster at DENR Assembly_1
- 9078_Ewaste Buster at DENR Assembly_2
- 9078_Ewaste Buster
- 9078_Bagong Silang Facility Operator_1
- 9078_Bagong Silang Facility Operator_2
- 9078_Dampalit Facility Operator
- 9078_Dampalit Facility_Dismantling_1
- 9078_Dampalit Facility_Dismantling_2
- 9078_Dampalit Facility_Dismantling_3
- 9078_Dampalit Facility_Dismantling_4
- 9078_Dampalit Facility_Inventory
- 9078_Dampalit Facility_Bromine reading
- 9078_Male Operator
- 9078_Female Operato
- 9078_GEF Sec Visit_Women Empowerment
- 9078_GEF Sec Visit_1
- 9078_GEF Sec Visit_2

- 9078_GEF Sec Visit_3
- 9078_GEF Sec Visit_Women Dismantlers_1
- 9078_GEF Sec Visit_Women Dismantlers_2
- 9078_Dampalit_Vehicle Turnover
- 9078_Dampalit_Facility Inaguration
- 9078_Coop Signing_CAR
- 9078_Coop Signing_SJDM
- 9078_Ewaste Collection Launching_R5

PCB

- 9078_Non Com POPs_1
- 9078_Non Com POPs_2
- 9078_Non Com POPs_3
- 9078_Non Com POPs Dismantling_1
- 9078_Non Com POPs Dismantling_2
- 9078_Non Com POPs Dismantling_3
- 9078_Non Com POPs Dismantling_4
- 9078_Non Com POPs Lab_1
- 9078_Non Com POPs Lab_2
- 9078_Non Com POPs Site Visit

Videos

- 9078_Ewaste Collection Highlights
- 9078_PCB-free World by 2028
- 9078_Voices of Women Ewaste Dismantlers

Newsletters, Press Releases and FB Live Links

- 9078_Press Releases FB Live Links_PIR '23
- 9078_UNIDO PH Newsletter Q3 2022
- 9078_UNIDO PH Newsletter Q4 2022
- 9078_UNIDO PH Newsletter Q1 2021
- 9078_DENR-FASPS Newsletter Q1 2023

Training & Activity Reports

- 9078_Training Report_XRF Training_Nov 2022
- 9078_Training Report_TOT Batch 2_Nov 2022
- 9078_Activity Report_Ewaste Coll_R5_Oct-Nov 2022
- 9078_Activity Report_Simultaneous Ewaste Coll Events & Closing Activity_June 2023
- 9078_Activity Report_South African Delegation_Jun 2022
- 9078_Activity Report_UP-DILIMAN-Learning-Visit_December 2023
- 9078_Activity Report_Baguio LGU Learning Visit_May 2022
- 9078_Activity Report_Coop Agr Signing_Baguio City_Nov 2022
- 9078_Activity Report_Ewaste Coll & Coop Signing_SJDM Bulacan_Sep 2022
- 9078_Activity Report_GEF Sec Mission_Dampalit Facility_Jan 2022

9078_Activity Report_Ewaste Coll_R1_Nov 2022

VIII. Implementation progress

1. Using the previous reporting period as a basis, please provide information on **progress, challenges and outcomes achieved/observed with regards to project implementation.**

For this period, weighted accomplishment is pegged at 88.70% against the target of 94.80% or a slippage of 6.10%. The project has minimal accomplishments for the quarter as the treatment of PCBs from Electric Cooperatives (ECs), which is a major target, has not reached the desired target of at least 200 tons, though the project was extended to enable NRDC to implement its catch up plan. The targets were adjusted based on the extension period, January 2023 – January 2024. Component 1 and 2 still have slippages in completing the targeted activities at 1.66% and 4.47%, respectively. Bulk of the pending activities are the final disposal of PBDE contaminated plastic casings (1.1 tons) and PCB oil and PCB contaminated equipment. 65.9 tons of PCB oil and equipment were hauled from their storage sites of the companies, 10.51 tons PCB oil were processed (with concentrations ranging from 3 ppm to 100 ppm), were treated to less than 2 ppm, while 116 distribution transformers (36.6 tons) were dismantled

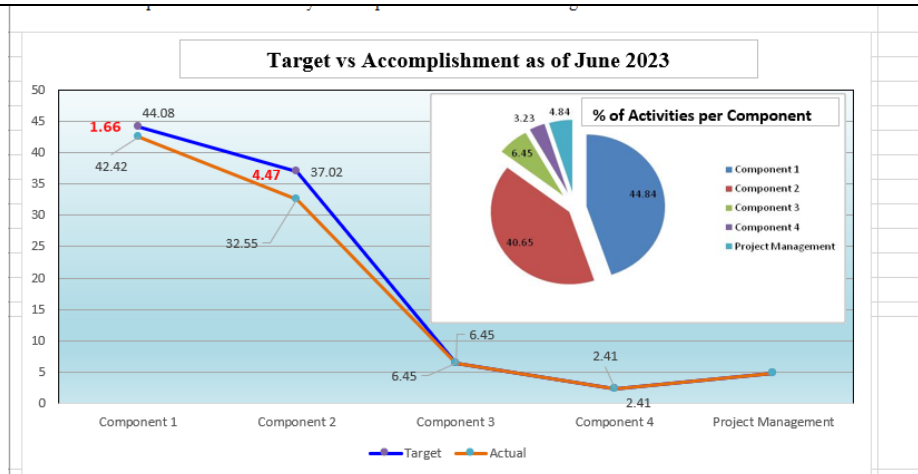


Table 1. Target vs Accomplishment per Component as of June 2023

	Target	Actual accomplishment	slippage
Component 1	44.08	42.42	1.66
Component 2	37.02	32.55	4.47
Component 3	6.45	6.45	0.00
Component 4	2.41	2.41	0.00
Project Management	4.84	4.84	0.00
TOTAL	94.8	88.7	6.13

Disposal of 550 kg of PBDE contaminated plastic casings has already been undertaken, however, the results of the environmental testing for brominated compounds, and dioxin/furan before and during the disposal still has to be completed. The disposal of the additional 31 tons of plastic casings contaminated with PBDE is expected to be undertaken by 3rd quarter of 2023, the stockpile is safeguarded by IRI within its premises.

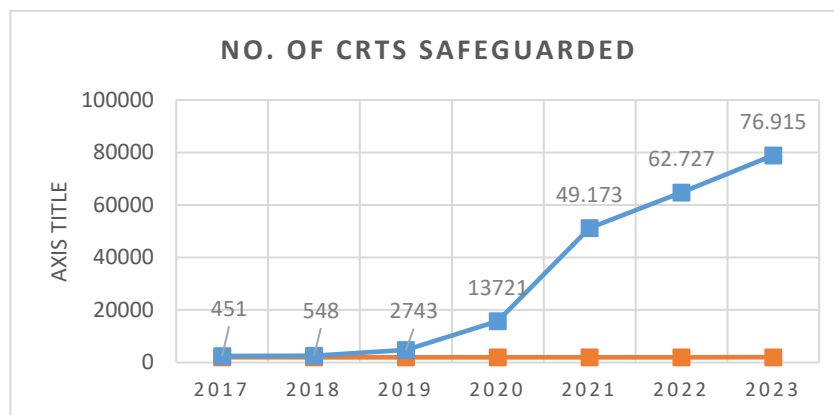
For the year, major accomplishments of the project are the following:

- A total of 550 kg of PBDE in plastic casings has been destroyed through co-processing at Holcim Group of Companies;
- Sustainability plans for the two (2) e-waste facilities are being developed;
- The city ordinances of San Jose del Monte, Bulacan and Bagong Silang, Caloocan City supporting e-waste management has been drafted and are awaiting adoption by their respective City Councils;
- A total of 267 units (10.5 tons) of e-waste were collected from the different e-waste collection events organized as a result of the Cooperation Agreements signed by UNIDO and EMB Central Office with selected Regional Offices of EMB;
- A total of 55.57 tons of PCBs have been hauled to the Non-Com POPs Facility;
- Negotiations by the DENR with PNOC/signing of the MoA and Locator's Agreement, which resulted to the issuance of the entry Permit in February 2023.
- A total of 81 transformers have been dismantled at the Non-Com POPs Facility;
- Meetings with EMB Regional Offices were held to identify the ECs that pulled out their commitment to the project and identify ECs that can sign contracts with NRDC;
- A PCB Booth was set by UNIDO during the COPs BRS in Geneva in May 2023. The booth featured the PCB Facility and the project's efforts in achieving the goal of PCB-free by 2028;
- In June, delegates from South Africa Institute for Environmentally Sound Management of Hazardous Waste and other Wastes conducted a learning visit to the Non-Com POPs Facility;
- Tripartite signing agreement between Brgy. Bagong Silang and the informal waste sector in Bagong Silang and Capulong;
- Learning mission conducted by Baguio City LGU to the TSD facilities in Dampalit and Bagong Silang in May 2023. This is part of the plan to set up an e-waste facility in Brgy. Bakakeng in Baguio City; and
- MOA between Barangay Bagong Silang and Samahan ng Mambabaklas was signed in April 2023 wherein the latter will assist the barangay in the operations of the e-waste facility.
- Conduct of a simultaneous e waste collection event.

Below is the status of the project expected outputs per component:

Component 1- e waste component
Progress

- The project has a target of disposing 1.15 tons of PBDE containing plastic casings from the 50,000 cathode ray tubes and an associated benefit of the disposal of 225 tons of glass containing Pb.
- The project has already collected 77,000/100,000 CRTs and disposed of 31 tons of PBDE containing plastic casings through co-processing, which is estimated to contain at least 550 kg of PBDE. The results of analysis/assessment of the environmental sampling is expected to be reported by August 2023.
- The 2nd e waste facility started its operations in June 2022 with at least 4 operators and 1 pollution control officer.
- At least 828 tons of glass containing Pb were disposed through encapsulation and 91 tons of recyclable materials collected.
- Financial Study was presented.
- EMB Regional Offices mobilized their LGU in their respective provinces/municipalities by organizing several meetings. (Region 1, CAR, 5)
- Agreements were made with the association of junkshops, dismantlers and barangay to ensure sustainability of the Bagong Silang e waste facility.
- Sustainability plan prepared included the signing of cooperation agreements with several local government units, building/apartment developers, selected private companies
- Participation of 2 major telecommunication companies in the ewaste collection event held in June 2023
- The e waste collection events initiated by the project inspired other LGUs to establish their own e waste facility (i.e. city of Manila), further the City of San Jose del Monte Bulacan has already presented to their City Council the 1st draft of the ordinance on e waste management.
- MoA between Bagong Silang and Holcim Company as part of the corporate social responsibility of the latter.
- The 2 e waste facilities have their own trucks for hauling.



Challenges

- Given the threshold limits for the EIA for TSD facilities, securing an ECC would again be a challenge for the 3rd e waste facility.
- Without the project, continuous purchase of CRTs from the dismantlers could be difficult.
- At the moment, EcoWaste Coalition could not immediately avail of the 50,000 CRTs as there are other players who are collecting CRTs from other dismantlers (outside the Association).
- sustaining the operations could be difficult, especially if majority of these are e wastes.
- Policies of EMB supporting e waste collection from households still need to be harmonized, taking into consideration their existing policies on ECC, solid waste management and hazardous waste management.

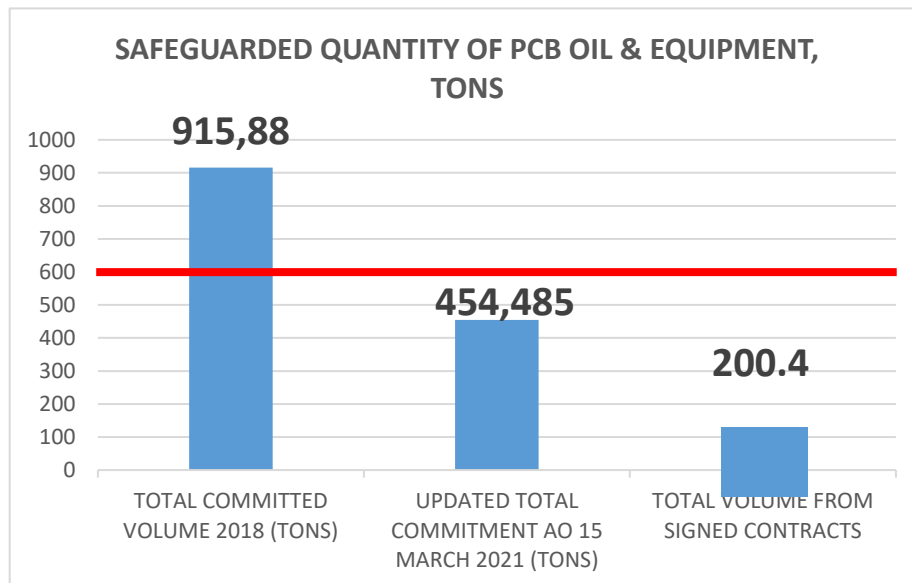
Outcome

- With a recycling rate of 20-30%, at least 263.39 tons of recyclables amounting to \$93,688.74 was generated. The earnings from the recyclables were earmarked for the sustainability phase of the project, part of it was already used to purchase a truck for the facility in Bagong Silang.
- From the collected CRTS, at least 816 tons of glass containing Pb were disposed through encapsulation and 91 tons of recyclable materials were recovered. 57 tons of these are plastic casings while the rest are copper, yoke, metals, which means that the project has diverted at least 600 tons of Pb from the creeks and landfills which was the previous disposal sites prior to the project.
- Some LGUs introduced reward system for residents who surrendered their e wastes
- The e waste facilities serve as pilot facilities for a material recovery facility upgraded to an e waste facility that can store, and dismantle e-wastes. The project has data on the technical and financial requirements for e waste facilities.

Component 2 – PCB management

Progress

- Component 2 accomplished **32.55%** this quarter from a target of **37.02%** with a slippage of **4.47%**. As of June 30, 2023 at total of **297.13 MT** of PCB Equipment and oil has been contracted.
- With the entry permit issued by the PNOC in February 2023, the project was able to haul 65.97 tons, consisting of 153 transformers and 80 drums of oil. **400 MT** of PCB contaminated equipment and oil is needed to complete the **600 MT**. About **236.48 MT** have pending contracts with Electric Cooperatives, while **174 MT** has yet to be identified. As part of the strategy to obtain additional contract for disposal, EMB will be conducting screening and validation of ECs who expressed interest as well as those with scheduled disposal this 2023 based on their PCB Management Plan
- A number of ECs have requested validation of their PCB stockpile, as they indicated that not all of the quantity committed to the project have been analyzed yet. At least 80 samples were undertaken by EMB.
- In terms of additional contracts, there is no significant increase in the contracts secured by NRDC this reporting period. Strategies on how additional ECs will be contracted will be undertaken by next quarter, with the expectation that a total of 600 tons of contracts from ECs will be completed by End of December, and that these can be processed by NRDC even beyond the project phase.
- Business plan for the operations of the facility revisited.
- Production Plan adjusted.



Challenges

- Entry Permit to NRDC was issued by PNOC Industrial Park to Non Com POPs facility only in February 2023, after the DENR signed the Memorandum of Agreement with PNOC on the recoupment of \$3.9 M of the PNOC – Alternative Fuel Corporation outlay per GEF ID No 2329.
- The contract was signed by the DENR and PNOC, however, the lack of president and vice president of NRDC contributed to its difficulty in convening their procurement team, thus, the slow down in the delivery of their services including procurement of supplies needed by the facility for its operations.
- The turn around of staff in NRDC is also high, the project manager in 2022 has been replaced, the chemist and some operators are new and trainings have to be provided.
- With the on and off operations of the facility, trouble shooting and preventive maintenance cannot be undertaken on a regular basis due to lack of continuous revenue, thus, the resumption of operations was bogged down by issues on the SCADA, compressor, GC which could have been prevented if there was a regular preventive maintenance undertaken.
- Although there were previous projects on the Inventory of POPs, it was apparent from the meetings that majority of the ECs do not have any results of analysis, thus their refusal to commit prior to the conduct of sampling.

Outcome:

- For this reporting period, the project through NRDC has already been able to transport 65.9 tons of PCB oil and equipment, dismantle 36.3 tons of power and distribution transformers, and treated 10.4 tons of low level PCB oil.

Component 4

- The project has an existing TWG which meets at least 2x a week, and all concerns of the TWG are being raised to the project manager, Dr. Centeno and to the EMB Director as needed. When there are recommendations that would need the PSC approval or intervention, a PSC meeting is recommended by the NPM.
- The NPM regularly meets with the EMB Director/Asst. Director, and FASPS director. For cases that would need intervention

by senior officials as in the case of the concern with PNOC, regular updating with the senior officials of the DENR, including the GEF OFP are undertaken.

- The PMU also meets with the UNIDO CO on a quarterly basis.
- The DENR Foreign Assisted Projects Office also regularly meets with the project team and quarterly reports are being prepared.

2. Please briefly elaborate on any **minor amendments⁶ to the approved project that may have been introduced during the implementation period or indicate as not applicable (NA).**

Please tick each category for which a change has occurred and provide a description of the change in the related textbox. You may attach supporting documentation, as appropriate.

<input type="checkbox"/>	Results Framework	
<input type="checkbox"/>	Components and Cost	
<input checked="" type="checkbox"/>	Institutional and Implementation Arrangements	Médecins du Monde (MDM), an identified partner in the project document withdrew
<input type="checkbox"/>	Financial Management	
<input checked="" type="checkbox"/>	Implementation Schedule	The project was extended for the second time, until January 31, 2024
<input type="checkbox"/>	Executing Entity	
<input type="checkbox"/>	Executing Entity Category	
<input type="checkbox"/>	Minor Project Objective Change	
<input type="checkbox"/>	Safeguards	
<input type="checkbox"/>	Risk Analysis	
<input type="checkbox"/>	Increase of GEF Project Financing Up to 5%	
<input checked="" type="checkbox"/>	Co-Financing	There are additional entities which provided co financing expenses
<input type="checkbox"/>	Location of Project Activities	
<input type="checkbox"/>	Others	

3. Please provide progress related to the **financial implementation of the project.**

As of June 30, 2023, the project's total disbursement of US\$ 5,498,700.26 out of the US\$ 6,200,000.00 budget indicated in the Project Document. This is equivalent to approximately 88% disbursement as compared to the previous PIR submission. Major expenditures of the project during the reporting period were contributed by the following:

- Component 1, with a cumulative disbursement of US\$ 2,470,420.61 – with the issuance of the following contracts:
 - 3rd amendment to the UNIDO-IRI Contract for the Collection and Transportation of 45,000 units of CRTs Monitors/TVs and Oversee the operations of the TSD Facilities and the Safe Disposal of 600 tons Pb Glass. This contract also includes the establishment of the 3rd e-waste facility in Barangay Bakakeng, Baguio City and training for its operators. The facility is proposed to be set up within the year.
 - 2nd amendment to the UNIDO-Ecowaste Contract for the continuation of awareness raising activities in the project sites and the collection of 50,000 CRT Monitors/TVs. This contract includes the awareness raising activities of the project until January 2024, as well as to provide support to the sustainability of the two existing TSD Facilities in Bagong Silang and Dampalit.

⁶ As described in Annex 9 of the *GEF Project and Program Cycle Policy Guidelines*, **minor amendments** are changes to the project design or implementation that do not have significant impact on the project objectives or scope, or an increase of the GEF project financing up to 5%.


- Component 2 with a cumulative disbursement of US\$ 2,316,667.84 – with the issuance of procurements for maintenance works of the Non-Com POPs Facility and through a contract between the project and Envirocare, a service provider for the hauling of 40 tons of PCB Oils coming from the partner Electric Cooperatives who already have contracts with NRDC.


The project has a cumulative US\$ 701,299.74 remaining funds which will be utilized for the remaining activities until the end of the project by January 2023, with the major bulk allocated for the safe and sound disposal of the 38 tons of PBDE contaminated plastic casings and the establishment of the 3rd ewaste facility under Component 1 and the disposal of PCB Oil from the Electric Cooperatives under Component 2. These activities are expected to begin within the following months.

Co-financing Expenses

Co-financing Expenses	Amount, PHP	Amount, \$
Component 1		
Integrated Recycling Industries, Inc.	6,332,987	126,659
Barangay Bagong Silang, Caloocan City	6,912,170	138,243
Globe Telecom	800,000.00	16,000
Total	14,045,157.00	280,903.00


For the PIR Period, co-financing of some stakeholders for component 1 amounted to \$ 280,903.00 with the biggest share coming from Barangay Bagong Silang, Caloocan City. Other stakeholders still have to submit their co-financing expenses, this will be reflected in the Terminal Report.

		PROJECT DELIVERY REPORT		Project:		150048 - MANAGEMENT OF NEW POPs IN THE WEEE RECYCLING STREAM AND IMPLEMENTATION OF PCB MANAGEMENT PROGRAMS FOR ELECTRIC COOPERATIVES		Project Manager:		Carmela Centeno		Project Validity: Status:		01.09.2015 - 31.01.2024 Implement	
Reporting Period:		14.07.2015 - 19.07.2023		Project Theme:		Energy and Environment		Country:		Philippines		Region		Asia and Pacific	
Sponsor Nr.		Sponsor		Grant		Grant Description		Fund		Currency		Grant Status		Grant Validity	
400150		GEF - Global Environment Facility		2000003127		PPG PHI		GF		USD		Closed		14.07.2015 - 31.12.2018	
400150		GEF - Global Environment Facility		2000003568		IMPLEMENTATION PCB		GF		USD		Authority to implement		27.01.2017 - 31.01.2024	
		Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+i)			
2000003127															
150048-0-01-01		Project Document prepared	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD			
1100		Staff & Intern Consultants	0.00	0.00	0.00	0.00	25,697.16	25,697.16	25,697.16	0.00	0.00	25,697.16			
1500		Local Travel	0.00	0.00	0.00	0.00	13,272.03	13,272.03	13,272.03	0.00	0.00	13,272.03			
1700		Nat.Consult./Staff	0.00	0.00	0.00	0.00	61,110.42	61,110.42	61,110.42	0.00	0.00	61,110.42			
2100		Contractual Services	0.00	0.00	0.00	0.00	14,603.28	14,603.28	14,603.28	0.00	0.00	14,603.28			
3000		Train/Fellowship/Study	0.00	0.00	0.00	0.00	5,063.45	5,063.45	5,063.45	0.00	0.00	5,063.45			
3500		International Meetings	0.00	0.00	0.00	0.00	14,698.16	14,698.16	14,698.16	0.00	0.00	14,698.16			
4500		Equipment	0.00	0.00	0.00	0.00	8,459.31	8,459.31	8,459.31	0.00	0.00	8,459.31			
5100		Other Direct Costs	0.00	0.00	0.00	0.00	14,621.56	14,621.56	14,621.56	0.00	0.00	14,621.56			
9300		Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,200.00	15,200.00			
150048-0-01-01		Total	0.00	0.00	0.00	0.00	157,525.37	157,525.37	157,525.37	0.00	15,200.00	172,725.37			
2000003127		Total	0.00	0.00	0.00	0.00	157,525.37	157,525.37	157,525.37	0.00	15,200.00	172,725.37			
2000003568															
150048-1-01-01		Legislation & Institutional Capacity	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD			
1100		Staff & Intern Consultants	16,921.90	0.00	0.00	0.00	16,921.90	16,921.90	0.00	16,921.90	0.00	0.00			
1500		Local Travel	(1,671.58)	(1,745.24)	678.72	(1,066.52)	5,073.59	5,073.59	5,678.65	(605.06)	0.00	5,678.65			
1700		Nat.Consult./Staff	1.73	17,054.11	0.00	17,054.11	51,226.61	51,226.61	68,278.99	(17,052.38)	0.00	68,278.99			
3000		Train/Fellowship/Study	8,802.44	0.00	0.00	0.00	8,802.44	8,802.44	0.00	8,802.44	0.00	0.00			
3500		International Meetings	8,866.73	0.00	0.00	0.00	33,033.87	33,033.87	24,167.14	8,866.73	0.00	24,167.14			
4500		Equipment	0.90	0.00	0.00	0.00	2,987.56	2,987.56	2,986.66	0.90	0.00	2,986.66			
5100		Other Direct Costs	1,320.74	0.00	1.67	1.67	2,749.28	2,749.28	1,430.21	1,319.07	0.00	1,430.21			
9300		Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9,741.41	9,741.41			
150048-1-01-01		Total	34,242.86	15,308.87	680.39	15,989.26	120,795.25	120,795.25	102,541.65	18,253.60	9,741.41	112,283.06			


 PROJECT DELIVERY REPORT		Project:	150048 - MANAGEMENT OF NEW POPS IN THE WEEE RECYCLING STREAM AND IMPLEMENTATION OF PCB MANAGEMENT PROGRAMS FOR ELECTRIC COOPERATIVES			Project Manager:	Carmela Centeno	Project Validity: Status:	01.09.2015 - 31.01.2024 Implement		
Reporting Period:	14.07.2015 - 19.07.2023	Project Theme:	Energy and Environment			Country:	Philippines	Region	Asia and Pacific		
Sponsor Nr.	Sponsor	Grant	Grant Description	Fund	Currency	Grant Status	Grant Validity				
400150	GEF - Global Environment Facility	2000003127	PPG PHI	GF	USD	Closed	14.07.2015 - 31.12.2018				
400150	GEF - Global Environment Facility	2000003568	IMPLEMENTATION PCB	GF	USD	Authority to implement	27.01.2017 - 31.01.2024				

	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+i)
150048-1-01-02	Reduction and Elimination of PBDE	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	6,293.77	(8,430.00)	8,520.38	90.38	28,961.04	28,961.04	22,757.65	6,203.39	0.00	22,757.65
1500	Local Travel	35,631.22	1,699.15	6,338.34	8,037.49	46,000.00	46,000.00	18,406.27	27,593.73	0.00	18,406.27
1700	Nat.Consult./Staff	7,008.31	2,920.86	8,557.11	11,477.97	58,560.01	58,560.01	63,029.67	(4,469.66)	0.00	63,029.67
2100	Contractual Services	689,813.47	135,947.42	344,925.98	480,873.40	2,199,876.54	2,199,876.54	2,072,536.47	127,340.07	0.00	2,072,536.47
3000	Train/Fellowship/Study	13.30	1,198.10	0.00	1,198.10	1,732.99	1,732.99	2,917.79	(1,184.80)	0.00	2,917.79
3500	International Meetings	450.80	1,448.86	18.92	1,467.78	2,327.40	2,327.40	3,344.38	(1,016.98)	0.00	3,344.38
4500	Equipment	1,201.67	(148,000.00)	147,999.98	(0.02)	280,830.45	280,830.45	279,628.76	1,201.69	0.00	279,628.76
5100	Other Direct Costs	26,289.68	0.00	3,625.20	3,625.20	30,464.10	30,464.10	7,799.62	22,664.48	0.00	7,799.62
9300	Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	234,486.15	234,486.15
150048-1-01-02	Total	766,702.22	(13,215.61)	519,985.91	506,770.30	2,648,752.53	2,648,752.53	2,470,420.61	178,331.92	234,486.15	2,704,906.76

150048-1-01-03	PCB Management	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	2,668.59	0.00	0.00	0.00	45,880.00	45,880.00	43,211.41	2,668.59	0.00	43,211.41
1500	Local Travel	26,013.09	0.00	6,688.53	6,688.53	46,708.85	46,708.85	27,384.29	19,324.56	0.00	27,384.29
1700	Nat.Consult./Staff	418.14	0.00	0.00	0.00	177,685.35	177,685.35	177,267.21	418.14	0.00	177,267.21
2100	Contractual Services	175,846.88	(119,468.00)	133,673.86	14,205.86	1,731,194.95	1,731,194.95	1,569,553.93	161,641.02	0.00	1,569,553.93
3000	Train/Fellowship/Study	5,596.18	0.00	4,714.05	4,714.05	22,378.50	22,378.50	21,496.37	882.13	0.00	21,496.37
4300	Premises	0.00	0.00	1,388.17	1,388.17	0.00	0.00	1,388.17	(1,388.17)	0.00	1,388.17
4500	Equipment	7.03	0.00	0.00	0.00	465,968.57	465,968.57	465,961.54	7.03	0.00	465,961.54
5100	Other Direct Costs	1,327.40	0.00	1,732.32	1,732.32	10,000.00	10,000.00	10,404.92	(404.92)	0.00	10,404.92
9300	Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	220,083.62	220,083.62
150048-1-01-03	Total	211,877.31	(119,468.00)	148,196.93	28,728.93	2,499,816.22	2,499,816.22	2,316,667.84	183,148.38	220,083.62	2,536,751.46

		PROJECT DELIVERY REPORT		Project:	150048 - MANAGEMENT OF NEW POPS IN THE WEEE RECYCLING STREAM AND IMPLEMENTATION OF PCB MANAGEMENT PROGRAMS FOR ELECTRIC COOPERATIVES		Project Manager:	Carmela Centeno	Project Validity: Status:	01.09.2015 - 31.01.2024 Implement	
Reporting Period:	14.07.2015 - 19.07.2023			Project Theme:	Energy and Environment		Country:	Philippines	Region	Asia and Pacific	
Sponsor Nr.	Sponsor			Grant	Grant Description		Fund	Currency	Grant Status	Grant Validity	
400150	GEF - Global Environment Facility			2000003127	PPG PHI		GF	USD	Closed	14.07.2015 - 31.12.2018	
400150	GEF - Global Environment Facility			2000003568	IMPLEMENTATION PCB		GF	USD	Authority to implement	27.01.2017 - 31.01.2024	

	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+i)
150048-1-01-04	Awareness raising and Capacity Building	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
2100	Contractual Services	61,647.83	(30,030.80)	38,466.26	8,435.46	362,772.83	362,772.83	309,560.46	53,212.37	0.00	309,560.46
3000	Train/Fellowship/Study	908.09	0.00	0.00	0.00	2,075.34	2,075.34	1,167.25	908.09	0.00	1,167.25
3500	International Meetings	11,854.33	0.00	0.00	0.00	17,166.89	17,166.89	5,312.56	11,854.33	0.00	5,312.56
4300	Premises	0.00	0.00	0.00	0.00	2,666.27	2,666.27	2,666.27	0.00	0.00	2,666.27
4500	Equipment	5,514.40	1,601.75	0.00	1,601.75	11,195.84	11,195.84	7,283.19	3,912.65	0.00	7,283.19
5100	Other Direct Costs	9,964.02	(4,121.61)	7,277.24	3,155.63	21,350.00	21,350.00	14,541.61	6,808.39	0.00	14,541.61
9300	Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32,322.10	32,322.10
150048-1-01-04	Total	89,888.67	(32,550.66)	45,743.50	13,192.84	417,227.17	417,227.17	340,531.34	76,695.83	32,322.10	372,853.44
150048-1-51-01	Monitoring	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1500	Local Travel	13,063.31	0.00	0.00	0.00	24,869.17	24,869.17	11,805.86	13,063.31	0.00	11,805.86
1700	Nat.Consult./Staff	71,316.74	0.00	0.00	0.00	77,200.00	77,200.00	5,883.26	71,316.74	0.00	5,883.26
3000	Train/Fellowship/Study	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3500	International Meetings	15,000.00	0.00	0.00	0.00	15,000.00	15,000.00	0.00	15,000.00	0.00	0.00
4500	Equipment	50.06	0.00	0.00	0.00	3,062.08	3,062.08	3,012.02	50.06	0.00	3,012.02
5100	Other Direct Costs	689.64	(19.67)	607.97	588.30	10,000.00	10,000.00	9,898.66	101.34	0.00	9,898.66
9300	Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,907.02	2,907.02
150048-1-51-01	Total	100,119.75	(19.67)	607.97	588.30	130,131.25	130,131.25	30,599.80	99,531.45	2,907.02	33,506.82

		PROJECT DELIVERY REPORT		Project:	150048 - MANAGEMENT OF NEW POPS IN THE WEEE RECYCLING STREAM AND IMPLEMENTATION OF PCB MANAGEMENT PROGRAMS FOR ELECTRIC COOPERATIVES		Project Manager:	Carmela Centeno	Project Validity: Status:	01.09.2015 - 31.01.2024 Implement	
Reporting Period:	14.07.2015 - 19.07.2023			Project Theme:	Energy and Environment		Country:	Philippines	Region	Asia and Pacific	
Sponsor Nr.	Sponsor	Grant	Grant Description		Fund	Currency	Grant Status	Grant Validity			
400150	GEF - Global Environment Facility	2000003127	PPG PHI		GF	USD	Closed	14.07.2015 - 31.12.2018			
400150	GEF - Global Environment Facility	2000003568	IMPLEMENTATION PCB		GF	USD	Authority to implement	27.01.2017 - 31.01.2024			
	Description	Released Budget Current Year (a)	Obligations Current Year (b)	Disbursements Current Year (c)	Expenditures Current Year (d=b+c)	Total Agreement Budget (e)	Released Budget (f)	Obligations + Disbursements (g)	Funds Available* (h=f-g)	Support Cost (i)	Total Expenditures (j=g+i)
150048-1-51-02	Project Management	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	47.95	0.00	0.00	0.00	95.90	95.90	47.95	47.95	0.00	47.95
1500	Local Travel	12,344.77	456.38	2,217.10	2,673.48	24,952.05	24,952.05	15,280.76	9,671.29	0.00	15,280.76
1700	Nat.Consult./Staff	134,095.50	31,504.86	27,082.59	58,587.45	262,889.62	262,889.62	187,381.57	75,508.05	0.00	187,381.57
2100	Contractual Services	5,000.00	0.00	0.00	0.00	5,000.00	5,000.00	0.00	5,000.00	0.00	0.00
3000	Train/Fellowship/Study	234.49	(2,121.64)	2,168.14	46.50	4,970.00	4,970.00	4,782.01	187.99	0.00	4,782.01
4500	Equipment	1,836.85	0.00	84.53	84.53	7,055.19	7,055.19	5,302.87	1,752.32	0.00	5,302.87
5100	Other Direct Costs	(643.64)	0.00	440.16	440.16	8,000.00	8,000.00	9,083.80	(1,083.80)	0.00	9,083.80
9300	Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20,963.41	20,963.41
150048-1-51-02	Total	152,915.92	29,839.60	31,992.52	61,832.12	312,962.76	312,962.76	221,878.96	91,083.80	20,963.41	242,842.37
150048-1-53-01	Evaluation	USD	USD	USD	USD	USD	USD	USD	USD	USD	USD
1100	Staff & Intern Consultants	36,667.56	0.00	0.00	0.00	50,130.80	50,130.80	13,463.24	36,667.56	0.00	13,463.24
1700	Nat.Consult./Staff	17,587.20	0.00	0.00	0.00	19,835.46	19,835.46	2,248.26	17,587.20	0.00	2,248.26
5100	Other Direct Costs	0.00	0.00	0.00	0.00	348.56	348.56	348.56	0.00	0.00	348.56
9300	Support Cost IDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,525.71	1,525.71
150048-1-53-01	Total	54,254.76	0.00	0.00	0.00	70,314.82	70,314.82	16,060.06	54,254.76	1,525.71	17,585.77
2000003568	Total	1,410,001.49	(120,105.47)	747,207.22	627,101.75	6,200,000.00	6,200,000.00	5,498,700.26	701,299.74	522,029.42	6,020,729.68
150048	USD Total	1,410,001.49	(120,105.47)	747,207.22	627,101.75	6,357,525.37	6,357,525.37	5,656,225.63	701,299.74	537,229.42	6,193,455.05

IX. Work Plan and Budget

1. Please provide **an updated project work plan and budget** for the remaining duration of the project, as per last approved project extension. Please expand/modify the table as needed.

Outputs by Project Component	2023		GEF Grant Budget Available (US\$)
	Q3	Q4	
Component 1 – Management of POPs in Waste Electrical and Electronics Equipment (WEEE)			178,331.92
Outcome 1.1: Strengthened legislation and institutional capacity in implementing PBDE action plans			
Output 1.1.1: A rationalized National Policy on WEEE Management formulated including incentive packages and Extended Producers' Responsibility (EPR) initiatives			
Outcome 1.2: Reduction and eventual elimination of POPS-PBDEs releases from WEEE to mitigate their health impact.			
Output 1.2.1: Systematized and standardized system for inventory of POP-PBDEs and HBB in WEEE in the country,			
Output 1.2.2: BAT/BEP demonstrated for the sustainable sound management of WEEE at selected waste recycling facilities			
Output 1.2.3: Safe disposal of PBDE-containing plastics			
Component 2 – Sound Management of PCB-contaminated equipment, PCB wastes and stockpiles from electric cooperatives			183,148.38
Outcome 2.1: PCB management plans of selected rural cooperatives effectively implemented.			
Output 2.1.1: Screening criteria and financial mechanism formulated for subsidized funding for qualified electric cooperatives			

Output 2.1.2: Preparation of the production plan for the facility based on the availability of different kinds of PCB waste			
Output 2.1.3: PCB wastes screened, transported, treated and disposed at the existing Non-Combustion Facility at Limay, Bataan			
Component 3 – Institutional strengthening, capacity building and awareness raising			76,695.83
Outcome 3.1: Increased capacity for and awareness on sustainable and effective WEEE and PCB wastes management by relevant stakeholders			
Output 3.1.1: Training programs on PCB and WEEE management for relevant stakeholders designed and implemented			
Output 3.1.2: Awareness programs on WEEE and PCB waste management formulated and conducted			
Component 4 – Project Monitoring and Evaluation and Implementation			99,531.45
Outcome 4.1: The project and all its stakeholders are able to monitor and evaluate the project's progress allowing for the implementation of the National framework plan.			
Output 4.1.1: The project and all its stakeholders are able to monitor and evaluate the project's progress allowing for the implementation of the National framework plan			

X. Synergies

1. Synergies achieved:

An on-going project with EcoWaste Coalition for the informal sector with USAID is based on the outcomes of the project activities with women in the project sites. The project is also supporting an activity related to Extended Producer's Responsibility being implemented by the DENR with other implementing agencies such as UNDP, World Bank and GIZ.

3. Stories to be shared (Optional)

The Simultaneous Ewaste Collection Event that was held to celebrate the Environment Month in June, allowed the partners who volunteered to really lead the e-waste collection and raised awareness on the harmful effects of improper household e-waste management. The project partner went around the ewaste collection sites during the week and was greatly pleased at how each partner was able to uniquely execute the ewaste collection, having their own twists. Prior to their events, the project gave them a webinar on what to do during the ewaste collection event and how to properly collect, store and account for the different types of ewaste. The following are the unique ideas that the partners executed during the ewaste collection events:

1. DMCI Homes, mobilized their property management offices in Brio Tower, Zinnia, and Levina Place to participate in the e waste collection event and capacitated their janitors and housekeepers as they will be the ones segregating the ewaste.
2. Megaworld sites include: Lucky China Town, Venice Grand Cannal Mall, Eastwood City and Arcovia City.
In addition to the condominium mentioned, and to increase awareness raising campaign within their own employees, the following offices encouraged their employees to bring their e wastes.
3. SyCipLaw Center in Makati City- they invited their building tenants to donate their household e waste
4. PLDT and Smart Communications, the e waste collection coincided with their Environment and Health Safety Week. We are looking forward to the signing of a cooperation agreement with PLDT/Smart in the coming weeks.
5. Globe Telecommunications, who has supported the Barangay Dampalit e waste facility, donated the e waste bins that you see now and they also mobilized their clients and staff to donate their e wastes.

Project was featured in the DENR calendars and was visited by the GEF Secretariat and UNIDO Director General and even delegates from other countries. It serves as a pilot project where other stakeholders can learn. Others can learn the technical and financial requirements in the establishment of a facility, compliance with EIA law and other government requirements, operational concerns, business plans, stakeholders to be consulted, private partners that could be tapped. All of this can be shared by the facility and this will be documented in the coming months, so that this could be replicated.

XI. GEO LOCATION INFORMATION

The Location Name, Latitude and Longitude are required fields insofar as an Agency chooses to enter a project location under the set format. The Geo Name ID is required in instances where the location is not exact, such as in the case of a city, as opposed to the exact site of a physical infrastructure. The Location & Activity Description fields are optional. Project longitude and latitude must follow the Decimal Degrees WGS84 format and Agencies are encouraged to use at least four decimal points for greater accuracy. Users may add as many locations as appropriate.

Web mapping applications such as [OpenStreetMap](#) or [GeoNames](#) use this format. Consider using a conversion tool as needed, such as: <https://coordinates-converter.com>

Please see the Geocoding User Guide by clicking [here](#)

Location Name	Latitude	Longitude	Geo Name ID	Location and Activity Description
<i>Philippines – Barangay Bagong Silang, Caloocan City</i>	<i>14.65</i>	<i>120.97</i>	Caloocan City	Local municipality which is part of the project sites due to its high volume in e-waste trade. Location where the 1 st Ewaste facility was established by the project.
<i>Philippines – Barangay Camarin, Caloocan City</i>	<i>14.65</i>	<i>120.97</i>	Caloocan City	Local municipality which is part of the project sites due to its high volume in e-waste trade
<i>Philippines – Barangay Longos, Malabon City</i>	<i>14.69</i>	<i>120.93</i>	Malabon City	Local municipality which is part of the project sites due to its high volume in e-waste trade
<i>Philippines – Barangay Dampalit, Malabon City</i>	<i>14.66</i>	<i>120.96</i>	Malabon City	Location where the 2 nd Ewaste facility was established by the project.
<i>Philippines – Barangay Capulong, Tondo, Manila</i>	<i>14.62</i>	<i>120.97</i>	Manila City	Local municipality which is part of the project sites due to its high volume in e-waste trade
<i>Philippines –, Mariveles, Bataan Province</i>	<i>14.43</i>	<i>120.49</i>	Mariveles	Site where the Non-Combustion POPs Facility is built. It is inside the Philippine National Oil

				Company (PNOC) Industrial Park
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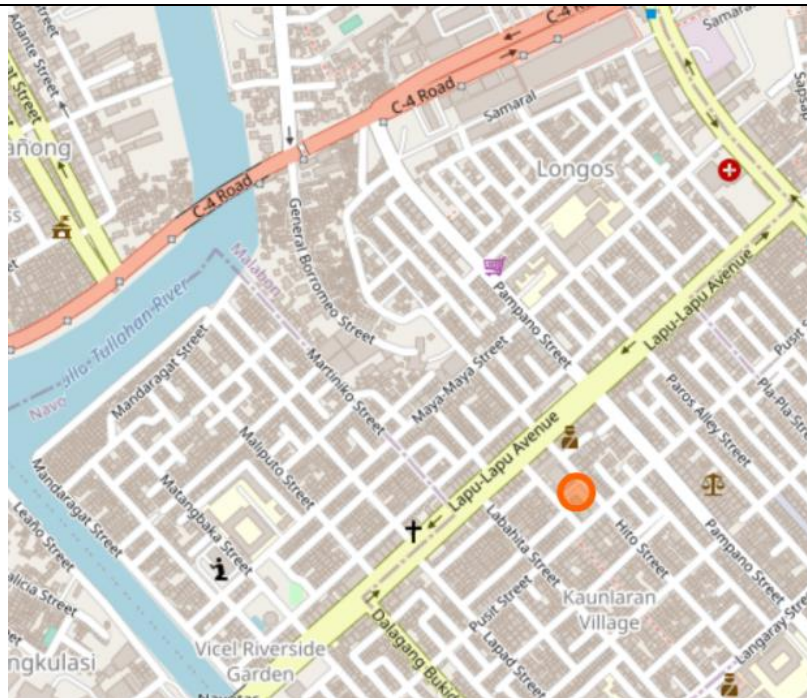
Please provide any further geo-referenced information and map where the project interventions is taking place as appropriate.

Component 1

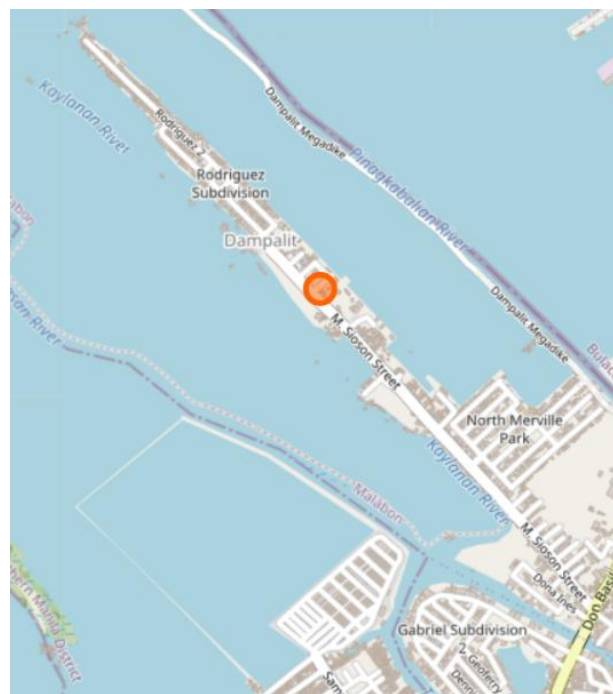
1. Barangay Bagong Silang, Caloocan City.

2. Barangay Camarin, Caloocan City

3. Barangay Longos, Malabon



4. Barangay Dampalit, Malabon

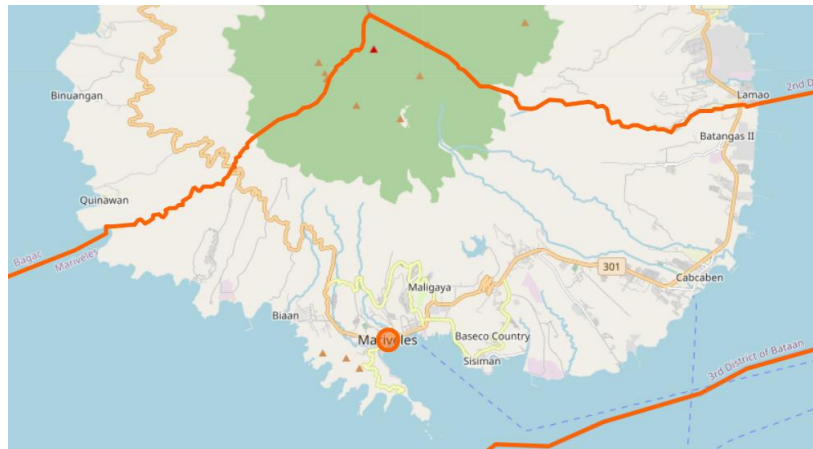


5. Barangay Capulong, Tondo, Manila



Component 2

1. Non-Combustion POPs Facility, Mariveles, Bataan



EXPLANATORY NOTE

1. **Timing & duration:** Each report covers a twelve-month period, i.e. 1 July 2022 – 30 June 2023.
2. **Responsibility:** The responsibility for preparing the report lies with the project manager in consultation with the Division Chief and Director.
3. **Evaluation:** For the report to be used effectively as a tool for annual self-evaluation, project counterparts need to be fully involved. The (main) counterpart can provide any additional information considered essential, including a simple rating of project progress.
4. **Results-based management:** The annual project/programme progress reports are required by the RBM programme component focal points to obtain information on outcomes observed.

Global Environmental Objectives (GEOs) / Development Objectives (DOs) ratings	
Highly Satisfactory (HS)	Project is expected to achieve or exceed <u>all</u> its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as “good practice”.
Satisfactory (S)	Project is expected to <u>achieve most</u> of its <u>major</u> global environmental objectives, and yields satisfactory global environmental benefits, with only minor shortcomings.
Moderately Satisfactory (MS)	Project is expected to <u>achieve most</u> of its major <u>relevant</u> objectives but with either significant shortcomings or modes overall relevance. Project is expected not to achieve some of its major global environmental objectives or yield some of the expected global environmental benefits.
Moderately Unsatisfactory (MU)	Project is expected to achieve <u>some</u> of its major global environmental objectives with major shortcomings or is expected to <u>achieve only some</u> of its major global environmental objectives.
Unsatisfactory (U)	Project is expected <u>not</u> to achieve <u>most</u> of its major global environmental objectives or to yield any satisfactory global environmental benefits.
Highly Unsatisfactory (HU)	The project has failed to achieve, and is not expected to achieve, <u>any</u> of its major global environmental objectives with no worthwhile benefits.

Implementation Progress (IP)	
Highly Satisfactory (HS)	Implementation of <u>all</u> components is in substantial compliance with the original/formally revised implementation plan for the project. The project can be presented as “good practice”.
Satisfactory (S)	Implementation of <u>most</u> components is in substantial compliance with the original/formally revised plan except for only few that are subject to remedial action.
Moderately Satisfactory (MS)	Implementation of <u>some</u> components is in substantial compliance with the original/formally revised plan with some components requiring remedial action.
Moderately Unsatisfactory (MU)	Implementation of <u>some</u> components is <u>not</u> in substantial compliance with the original/formally revised plan with most components requiring remedial action.
Unsatisfactory (U)	Implementation of <u>most</u> components in <u>not</u> in substantial compliance with the original/formally revised plan.
Highly Unsatisfactory (HU)	Implementation of <u>none</u> of the components is in substantial compliance with the original/formally revised plan.

Risk ratings	
Risk ratings will assess the overall risk of factors internal or external to the project which may affect implementation or prospects for achieving project objectives. Risk of projects should be rated on the following scale:	
High Risk (H)	There is a probability of greater than 75% that assumptions may fail to hold or materialize, and/or the project may face high risks.
Substantial Risk (S)	There is a probability of between 51% and 75% that assumptions may fail to hold or materialize, and/or the project may face substantial risks.
Moderate Risk (M)	There is a probability of between 26% and 50% that assumptions may fail to hold or materialize, and/or the project may face only moderate risk.

Low Risk (L)	There is a probability of up to 25% that assumptions may fail to hold or materialize, and/or the project may face only low risks.
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