

Improved Management Of Ewaste And Healthcare Waste To Reduce Emissions Of Unintentionally Produced POPs (UPOPs)

Review CEO Endorsement and Make a recommendation

Basic project information

GEF ID

10879

Countries

Egypt

Project Name

Improved Management Of Ewaste And Healthcare Waste To Reduce Emissions Of
Unintentionally Produced POPs (UPOPs)

Agencies

World Bank

Date received by PM

11/30/2022

Review completed by PM

12/16/2022

Program Manager

Ibrahima Sow

Focal Area

Chemicals and Waste

Project Type

FSP

PIF
CEO Endorsement

Part I ? Project Information

Focal area elements

1. Does the project remain aligned with the relevant GEF focal area elements as presented in PIF (as indicated in table A)?

Secretariat Comment at CEO Endorsement Request

On project information, please correct the expected implementation start to 1/1/2023 to make the 48 months of duration.

Agency Response

Thank you.

It is not feasible to adjust the start date to 1/1/2023 since the project is not yet endorsed. Project end date needs to remain as December 30, 2026 to be aligned with the WB project. Project duration updated to 47 months.

Project description summary

2. Is the project structure/design appropriate to achieve the expected outcomes and outputs as in Table B and described in the project document?

Secretariat Comment at CEO Endorsement Request Table B is missing key information. Please review and include text on the expected outcomes/outputs.

Agency Response

Thank you.

Under Table B, the outcomes and outputs for the GEF funded component 6: **Enhanced eWaste and HCW Management for Reduction of uPOPs**, are included.

The remaining components are all part of and covered by the parent project. The additional components and are only included in Table B to allow for the co-financing lines to be parsed out and indicate the alignment with the GEF project.

3. If this is a non-grant instrument, has a reflow calendar been presented in Annex D?

Secretariat Comment at CEO Endorsement Request NA

Agency Response

Co-financing

4. Are the confirmed expected amounts, sources and types of co-financing adequately documented, with supporting evidence and a description on how the breakdown of co-financing was identified and meets the definition of investment mobilized, and a description of any major changes from PIF, consistent with the requirements of the Co-Financing Policy and Guidelines?

Secretariat Comment at CEO Endorsement Request

On the proportionality of the PMC: The co-financing contribution to PMC is not proportionate compared with the GEF contribution to PMC. If the GEF contribution is kept at 4.5%, for a co-financing of \$142,000,000 the expected contribution to PMC must be around \$6,390,000 instead of \$0 (which is 0%). As the costs associated with the project management have to be covered by the GEF portion and the co-financing portion allocated to the PMC, the GEF contribution and the co-financing contribution must be proportional, which means that the GEF contribution to PMC might be decreased and the co-financing contribution to PMC might be increased to reach a similar level. Please amend either by increasing the co-financing portion and/or by reducing the GEF portion.

Agency Response

Thank you.

The PMC costs from the parent program are **US\$9.8 million** and covered under **Component 5: Project Management and Monitoring & Evaluation**. The management and monitoring of the GEF grant activities under Component 6 covered by the parent project through the Project Coordination Unit. However, because this is part of the parent project, under the WBG loan, the Project management and M&E is considered a project component.

Additional explanation provided under Table B in the CEO Endorsement submission, and highlighted here below:

The GEF project will allocate US\$ 400,000 to PMC and US\$ 400,000 to M&E costs. The established mechanisms under Component 5: Project Management and Monitoring & Evaluation, amounting to US\$ 9.8 million will cover all additional management costs and M&E activities.

The GEF component will follow the same implementation arrangements of the parent project, which is guided by an inter-ministerial Steering Committee (SC) co-chaired by the Minister of Environment and the Minister of Planning and Economic Development and includes Ministers (or their representatives) of the Ministries of International Cooperation, Local Development, Transport, & Health and Population, the Governorates of Cairo, Qalyubia, and Giza and the Cairo Transport Authority.

Under the parent project, a Project Coordination Unit (PCU) has been established at the MoE to be in-charge of the project's overall implementation and coordination between all stakeholders and Technical Implementation Units (TIUs) responsible for implementation of activities under various components have been established. These units must ensure that all activities are well executed in line with the approved project design, operations manual and other pertinent guidance. In the case of the component 6 (GEF), the Waste Management Regulatory Authority (WMRA) in close collaboration with the Environmental Health Department of the Egyptian Environmental Affairs Agency and the Stockholm Convention Focal Point will oversee the overall implementation of the GEF activities, ensure technical compliance and sound execution, alignment and integration with complementary parent project activities, and collaboration with project stakeholders, both private and public, as well as with GEF uPOPs requirements.

GEF Resource Availability

5. Is the financing presented in Table D adequate and does the project demonstrate a cost-effective approach to meet the project objectives?

Secretariat Comment at CEO Endorsement Request Yes

Agency Response Thank you.

Project Preparation Grant

6. Is the status and utilization of the PPG reported in Annex C in the document?

Secretariat Comment at CEO Endorsement Request PPG was not requested.

Agency Response

Core indicators

7. Are there changes/adjustments made in the core indicator targets indicated in Table E? Do they remain realistic?

Secretariat Comment at CEO Endorsement Request Yes

Agency Response Thank you.

Part II ? Project Justification

1. Is there a sufficient elaboration on how the global environmental/adaptation problems, including the root causes and barriers, are going to be addressed?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

2. Is there an elaboration on how the baseline scenario or any associated baseline projects were derived?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

3. Is the proposed alternative scenario as described in PIF/PFD sound and adequate? Is there sufficient clarity on the expected outcomes and components of the project and a description on the project is aiming to achieve them?

Secretariat Comment at PIF/Work Program Inclusion

Yes

Agency Response Thank you.

4. Is there further elaboration on how the project is aligned with focal area/impact program strategies?

Secretariat Comment at CEO Endorsement Request

Yes, alignment with C&W focal area is well elaborated.

Agency Response Thank you.

5. Is the incremental reasoning, contribution from the baseline, and co-financing clearly elaborated?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

6. Is there further and better elaboration on the project's expected contribution to global environmental benefits or adaptation benefits?

Secretariat Comment at CEO Endorsement Request

NA

Agency Response

7. Is there further and better elaboration to show that the project is innovative and sustainable including the potential for scaling up?

Secretariat Comment at CEO Endorsement Request

The project is innovative as the E-Waste component builds on the economic potential of E-Waste to generate green growth to provide an economic incentive for appropriate E-Waste recycling. In addition, the program builds on the existing experience of Egypt, a leading country in the region on addressing E-Waste and hazardous waste management.

Agency Response Thank you.

Project Map and Coordinates

Is there an accurate and confirmed geo-referenced information where the project intervention will take place?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Child Project

If this is a child project, is there an adequate reflection of how it contributes to the overall program impact?

Secretariat Comment at CEO Endorsement Request

NA

Agency Response

Stakeholders

Does the project include detailed report on stakeholders engaged during the design phase? Is there an adequate stakeholder engagement plan or equivalent documentation for the implementation phase, with information on Stakeholders who will be engaged, the means of engagement, and dissemination of information?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Gender Equality and Women's Empowerment

Has the gender analysis been completed? Did the gender analysis identify any gender differences, gaps or opportunities linked to project/program objectives and activities? If so, does the project/program include gender-responsive activities, gender-sensitive indicators and expected results?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Private Sector Engagement

If there is a private sector engagement, is there an elaboration of its role as a financier and/or as a stakeholder?

Secretariat Comment at CEO Endorsement Request

Yes, through demonstration activities to assess recycling capacity and business potential for expanding the market for recycled goods.

Agency Response Thank you.

Risks to Achieving Project Objectives

Has the project elaborated on indicated risks, including climate change, potential social and environmental risks that might prevent the project objectives from being achieved? Were there proposed measures that address these risks at the time of project implementation?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Coordination

Is the institutional arrangement for project implementation fully described? Is there an elaboration on possible coordination with relevant GEF-financed projects and other bilateral/multilateral initiatives in the project area?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Consistency with National Priorities

Has the project described the alignment of the project with identified national strategies and plans or reports and assessments under the relevant conventions?

Secretariat Comment at CEO Endorsement Request

The project is aligned with Egypt national priorities on POPs reduction and mercury elimination

Agency Response Thank you.

Knowledge Management

Is the proposed Knowledge Management Approach for the project adequately elaborated with a timeline and a set of deliverables?

Secretariat Comment at CEO Endorsement Request

Knowledge Management: we understand that the project paper includes some information about knowledge management. However, it is not clear about 1) knowledge management plan of the additional activities and budget, and 2) how the project developed based on existing lessons from other countries or previous project experience. Please explore further on these two points.

Agency Response

Thank you.

The Annex H (uploaded in the roadmap), outlines the knowledge management activities undertaken by the project along with the associated budget, as well as the lessons from other regional and national projects.

The project benefited from the experience of other projects in its design, particularly the GEF-funded Medical and Electronic Waste Management (MEWM) Project implemented by UNDP (closed September 2021) and Egypt Sustainable POPs Management Project implemented by The World Bank (closed in December 2021). The project's parent project, the Greater Cairo Air Pollution Management and Climate Change also provided important guidance with regard to the design of KM elements, particularly in relation to the health care sector. Lessons learned from World Bank initiatives in the region, such as the Pollution Management and Environmental Health project (PMEH) also provided important lessons. The PMEH project provided the needed analytical foundation for the understanding the health impacts of air pollution and progress in monitoring. The recently completed POPs project (referred above) made important progress in phasing out substances dangerous to public health and also in raising awareness of the importance of addressing and managing POPs in the long-term in the country.

Based on the experiences from the above, knowledge development by the current project will be supported through the following activities:

Under Sub-component 6.1: Supporting effective E-Waste management, models, and solutions knowledge generation and support activities to include: strategy development and guidance for used electronic equipment; developing training and educational material on globally harmonized waste and eWaste systems; support for updating and monitoring eWaste data and establishment of an integrated management information system (MIS); and guidance on

piloting collection, safe dismantling, and recycling of E-Waste; and guidance for pilot initiatives such as 'take-back' schemes.

Under Sub-component 6.2: Supporting effective healthcare waste management, models, and solutions knowledge generation and support activities to include: development of key studies and plans on HCW and a country-wide plan for HCW management in line with new national solid waste management law; technical assistance and support for development of an integrated HCW MIS; and guidance on pilot and demonstration activities on best practices for recycling and re-sale of safely segregated HCW, and modeling public/private financing and investment models for collection and treatment of HCW.

Under Sub-component 6.3: Supporting the preparation of Egypt's application to Minamata Convention knowledge generation and support activities to include improving data and state of knowledge for successful preparation of the application.

Training and workshops will be organized for knowledge management to ensure effective outreach, dissemination and promote visibility among stakeholders.

Environmental and Social Safeguard (ESS)

Are environmental and social risks, impacts and management measures adequately documented at this stage and consistent with requirements set out in SD/PL/03?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Monitoring and Evaluation

Does the project include a budgeted M&E Plan that monitors and measures results with indicators and targets?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Benefits

Are the socioeconomic benefits at the national and local levels sufficiently described resulting from the project? Is there an elaboration on how these benefits translate in supporting the achievement of GEBs or adaptation benefits?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Annexes

Are all the required annexes attached and adequately responded to?

Secretariat Comment at CEO Endorsement Request

Yes

Agency Response Thank you.

Project Results Framework

Secretariat Comment at CEO Endorsement Request

Agency Response

GEF Secretariat comments

Secretariat Comment at CEO Endorsement Request 28 December 2022: Please address the comments

Agency Response Thank you. Comments addressed in relevant sections above. Additional Annex H: Knowledge Management Plan uploaded in the roadmap.

Council comments

Secretariat Comment at CEO Endorsement Request

Agency Response

STAP comments

Secretariat Comment at CEO Endorsement Request Addressed

Agency Response Thank you.

Convention Secretariat comments

Secretariat Comment at CEO Endorsement Request

Agency Response

Other Agencies comments

Secretariat Comment at CEO Endorsement Request

Agency Response

CSOs comments

Secretariat Comment at CEO Endorsement Request

Agency Response

Status of PPG utilization

Secretariat Comment at CEO Endorsement Request NA

Agency Response

Project maps and coordinates

Secretariat Comment at CEO Endorsement Request Provided

Agency Response Thank you.

Does the termsheet in Annex F provide finalized financial terms and conditions? Does the termsheet and financial structure address concerns raised at PIF stage and that were pending to be resolved ahead of CEO endorsement? (For NGI Only)

Secretariat Comment at CEO Endorsement Request

Agency Response

Do the Reflow Table Annex G and the Trustee Excel Sheet for reflows provide accurate reflow expectations of the project submitted? Assumptions for Reflows can be submitted to explain expected reflows. (For NGI Only)

Secretariat Comment at CEO Endorsement Request NA

Agency Response

Did the agency Annex H provided with information to assess the Agency Capacity to generate and manage reflows? (For NGI Only)

Secretariat Comment at CEO Endorsement Request NA

Agency Response

GEFSEC DECISION

RECOMMENDATION

Is CEO endorsement recommended? (applies only to projects and child projects)

Secretariat Comment at CEO Endorsement Request

Project recommended for CEO clearance

Review Dates

	Secretariat Comment at CEO Endorsement	Response to Secretariat comments
First Review	12/16/2022	
Additional Review (as necessary)	12/28/2022	
Additional Review (as necessary)	1/12/2023	
Additional Review (as necessary)		
Additional Review (as necessary)		

CEO Recommendation

Brief reasoning for CEO Recommendations

Egypt is one of Africa's biggest e-waste-generating countries at 0.58 million metric tons annually in 2019. By 2019/2020, the growth rate for the ICT sector had reached 15.2 percent despite the issue presented to the economy by the COVID-19 pandemic. The resulting up-tick of needed digital communication during the pandemic has likely prompted growth in investments in consumer electronics. In addition, under its ICT 2030 strategy, the Egyptian government is undertaking a series of investments, capacity building and training programs, digital government services reforms, and infrastructure upgrades.

The generation of health-care waste (HCW) is rapidly increasing in Egypt, as a result of the COVID-19 crisis, expanding healthcare systems, increased utilization of single-use items, and poor segregation practices. As an unintended consequence of the COVID-19, healthcare waste quantities are increasing, and their subsequent treatment and disposal are resulting in increased releases of unintentional Persistent Organic Pollutants (UPOPs) as well as volatile heavy metals and other pollutants, including mercury. The medical waste generated due to the effects of COVID-19 have only added to the serious situation already present in Egypt. In 2013, it was estimated that the country generated some 470,000 tonnes of medical waste.

The proposed project is designed to take advantage of both recent progress and future synergies to make significant changes regarding waste management and the emissions of uncontrolled POPs and other substances. The project's proposed theory of change is based on: (i) continued strengthening of the regulatory framework and enhancing implementation effectiveness; (ii) completing key analytical and feasibility studies to fill knowledge gaps and provide decision makers with needed data and analysis; and (iii) building upon successful pilot initiatives to concretize successes, e.g., formalizing the informal sector for E-Waste recycling and collection of small electronics, and expand into new priority areas, e.g., printed circuit board recycling, expansion to collection and recycling of computers and other larger electronic, and establishing comprehensive HCW management in select hospitals. The project is aligned with the "Industrial Chemicals" Program under the GEF "Chemicals and Waste" focal area. It focuses on a life-cycle approach to chemicals and waste management looking to develop a "sustainable materials management approach, which promotes the adoption of improved production, consumption and environmentally-sound disposal patterns" including the recycling of E-Waste to reduce long-term need for hazardous materials. The project is expected to contribute to GEF indicator 10: Reduction, avoidance of emissions of POPs to air from point and non-point sources. The GEB is expected to be 7.14gTEQ based on a 10% reduction/avoidance of uPOPs emissions to air.

The project is innovative as the E-Waste component in particular builds on the economic potential of E-Waste to generate green growth to provide an economic incentive for appropriate E-Waste recycling. In addition, the program builds on the existing experience of Egypt, a leading country

in the region on addressing E-Waste and hazardous waste management. Moreover, While the project will not formerly include targets for mercury reduction, the project is expected to contribute to GEF indicator 9: Reduction, disposal/destruction, phase out, elimination and avoidance of chemicals of global concern and their waste in the environment and in processes, materials, and products. Activities related to improved HCW segregation and management and the overall focus on improved disposal of hazardous waste are expected to yield co-benefits with regard to reduction of mercury emissions. Activities are expected to yield a 0.294t reduction in mercury based on estimates of mercury waste per kg HCW/bed in selected university hospitals.

Global experience has shown that private sector participation in SWM infrastructure and service provision can leverage significant investments, create additional jobs and improve service provision. Accordingly, such engagement will contribute to the goals of improving and systemizing the country's ability to effectively manage waste over the long term.

It's to be noted that the project is supported by a WB loan with a solid co-financing of \$US 142 million to address air pollution and waste management in the Greater Cairo area.