



SwitchMed II project in Egypt



Title: Report of the Roundtable on Sustainable Consumption and Production, “Plastic Pollution Control”

Report by: CEDARE Egypt

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SwitchMed II project in Egypt
Date: 18/05/2023

Summary Report

Roundtable on Sustainable Consumption and Production, "Plastic Pollution Control"

Co-convened by UNEP, MOE, CEDARE and WMRA, in the frame of SwitchMed II Project



9th of May, 2023
Semiramis InterContinental Hotel, Cairo



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Executive Summary

As part of the launch of the **SwitchMed-II** Project in Egypt, a roundtable discussion on **Sustainable Consumption and Production (SCP)** was held on the 9th of May 2023. The theme of the meeting was **“Control of Plastic Pollution”**. The roundtable was co-convened by the Ministry of Environment (MOE), the Waste Management Regulatory Authority (WMRA) and the Centre for Environment & Development for the Arab Region & Europe (CEDARE), under the auspices of the EU-SwitchMed Programme and the United Nations Environment Programme (UNEP).

The roundtable included two dialogue sessions on pollution resulting from the waste of plastic packaging materials, with a focus on the excessive use of single-use plastic bags (SUPBs) and actions taken to reduce their pollution.

Sessions were attended by 85 invitees, and to enhance communication and ensure effective collaboration, the roundtable aimed to bring together various stakeholders or their representatives from different fields such as plastic packaging, supply chains, retail, experts, academics, government bodies, research institutions, and environmental activists.

Sessions began with a presentation on the scale of the plastic waste issue at both the national and international levels, followed by discussions among attendees on the role of the commercial sector in limiting the use of SUPBs, the impact of the measures taken by the Egyptian Government on the industrial sector, technology transfer for green transformation, legislative systems to protect the environment, and the environmental determinants in the industry of plastic packaging materials.

Discussions yielded agreement on a number of concepts, the most important of which is the progressive enforcement of the legislation and the technical specifications for plastic shopping bags. The dialogue also paved the way for enhanced cooperation among all parties to ensure a smooth implementation of the taken measures.



[Event on YouTube](#)

[Photos of the Event](#)

Plenary Presentation

The sessions began with a presentation on the scale of the plastic waste issue at both the national and international local levels, in which Dr. Ahmed Abdelkader, Sr. Technical Advisor, referred to the ecosystem before and after the current technological advancement and how the resulting pollution affected the environment. The presentation then demonstrated the quantities of the world's production of plastic materials, the future of the industry, and the resulting annual volumes of mismanaged plastic waste. Types and quantities of plastic waste were also presented, showing that the packaging materials are heading this waste.

The presentation also touched on single-use plastic bags, which are one of the most problematic plastic pollutants in both terrestrial and marine environments. The magnitude of the pollution caused by the lightweight plastic shopping bag in Egypt and around the world was shown side by side with its impact not only on the environment and public health but also on the economy if not dealt within the frame of circular economy.



The presentation also referred to Egypt's recent efforts to enact new waste management legislation, which is characterized by a unified regulatory body responsible for waste management. Moreover, one of the articles of this legislation states that single-use plastic bags shall be manufactured only according to technical specifications and shall not be sold, traded, or distributed free of charge.



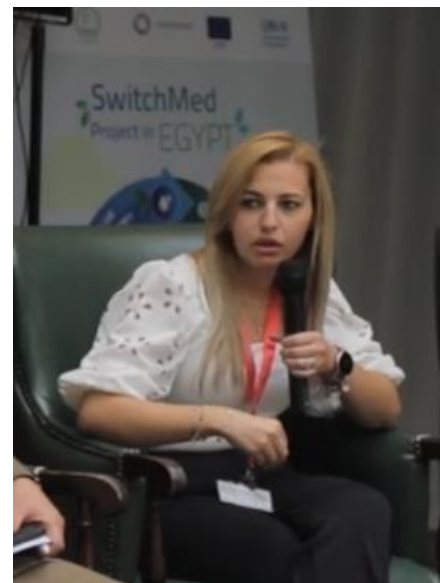
Session 1

The first session focused on pollution resulting from excessive use of lightweight plastic bags and measures taken to limit their use. The session was moderated by Dr. Ahmed Abdelkader, Sr. Technical Advisor, and was jointly delivered by Eng. Enji Akl, Marketing and Business Development Director, Kazyon Markets, Eng. Daa Hamza, General Director, Chamber of Chemical Industries, FEI, Dr. Ahmed Kamal, Executive Director, UNIDO Egypt and Eng. Mostafa El-Rakaiby, Chairman, Association of Merghem Industrial Plastic Complex Investors.



The role of the commercial sector in limiting the use of SUPBs

The dialogue began with a question from the moderator to Eng. Enji Akl, Marketing and Business Development Director, Kazyon Markets, on the intermediate stage in the life cycle of the lightweight plastic bag, which is the distribution and usage phase, and the client's reaction when the free distribution of these bags is banned, and how to deal with the situation. Eng. Akl replied that the citizen used to receive during the past decades the bag free of charge. Therefore, comprehensive campaigns are needed to raise customer's awareness on the harmful environmental impacts of plastic bags and prepare and direct him/her to use the multi-use bag or accept to pay the cost of the single-use bag. She also emphasized the importance of progressive implementation of the new legislations. Concurrently, commercial chains can develop their own incentive system, which suits their process and can be accepted by their customers.



Eng. Enji Akl,
Marketing and Business Development
Director, Kazyon Markets



The impact of legislation and measures on the industrial sector

Then, the moderator gave the floor to Eng. Diao Hamza, General Director, Chamber of Chemical Industries, FEI, who mentioned that the number of plastic factories is around 3,200, having obligations to their clients and employees, and that should not be compromised. He confirmed that the industrial sector is not against any kind of environmental policies and that all formal manufacturing units complied with environmental norms. He stated that all efforts should be directed towards only single-use plastic products, especially SUPBs. However, he stressed on the need for an effective waste collection system and referred to the Chamber of Waste Management in FEI, confirming that the recycling industry of plastic waste exists and operates in Egypt. On the other hand, he pointed at the types of alternatives to the SUBPs and whether raw materials are available for production or not.



Eng. Diao Hamza,
General Director, Chamber of Chemical Industries, FEI

At the end, Eng. Hamza reflected on the use of new technical specifications, the status of existing supply contracts of different product specifications, and the possibility of making the manufacturers' choice available to meet market demands.

Technology transfer in the field of plastic packaging industry

With regard to technology transfer and technical support, the moderator gave the floor to Dr. Ahmed Kamal, Executive Director, UNIDO-Egypt, who explained UNIDO's role and objectives in achieving Goal 9 of the Sustainable Development Goals—industry, innovation, and infrastructure—and explained that UNIDO had a package of 22 projects with an estimated budget of about \$44 million. About 85% of these projects are directed towards green economy. Focusing on innovation and the technological aspect is a key component of the Organization's activity. With regard to plastics, Dr. Kamal explained that UNIDO focuses on the key value chains in the industrial sector and segments with negative impact on the environment.



Dr. Ahmed Kamal,
Executive Director, UNIDO Egypt

It was also clarified that during the chairmanship of Japan at the twentieth Summit in 2019, the Government of Japan and UNIDO announced a global marine initiative aimed at implementing a number of technical support projects in different countries to refrain from the use of single-use plastics and packaging materials and to move towards sustainable alternatives. In 2019, UNIDO, in collaboration with a number of Japanese experts, has undertaken a study on sustainable alternatives to these polluting products and on new technologies used in the plastic and packaging sector.

The report on this study was released in 2021. UNIDO then started implementing a number of technical support projects in a number of countries, such as Kenya, South Africa, Nigeria, and Ghana. Currently, one project is being implemented in Egypt to achieve the principle of circular economy in single-use plastic value chains. The project aims to achieve three-pronged outcomes: first, policies and the creation of markets for sustainable alternatives to single-use plastic products; second, awareness-raising for both producers and consumers towards sustainable alternatives; and third, technical support services and technology transfer for Egypt's small- and medium-sized investments.

Industrial Sector

To complement the industry's opinion on the legislation and technical specifications recently issued for the plastic shopping bag, Eng. Mostafa El-Rakaiby, Chairman, Association of Merghem Industrial Plastic Complex Investors, explained that there are about 10 factories in Mergem complexes 1 and 2 that produce plastic bags and that there are no technical obstacles for these factories to produce plastic shopping bags according to the technical specifications issued in this regard. However, he added that it is not possible to start production without creating a real demand from the market.

With regard to the production of environmentally friendly alternatives such as biodegradable bags, Eng. El-Rakaiby mentioned that most of the traditional bag production machines are capable of producing this type of bag, but the high price of raw materials is a barrier to its spread. The moderator commented on this point, saying that although there is a price difference between conventional raw materials and biodegradable raw materials, the cost of end products is comparable as a result of the differences in the quantities of the raw materials used. It was also clarified that the environmental value of the biodegradable bag exceeds its cost.



Eng. Mostafa El-Rakaiby
Chairman, Association of Merghem
Industrial Plastic Complex Investors



Session 2

The second session addressed pollution resulting from plastic packaging materials. The session was moderated by Dr. Ahmed Abdelkader and was jointly delivered by Prof. Alaa Abdelbari, VP Arab Academy for Science, Technology & Maritime Transportation, Dr. Dina Abdelmagid, Faculty of Law, Zakazik University and Eng. Ahmed Taha, IDA Chairman's Assistant.



Marine plastic pollution - challenges and solutions

At the beginning of the session, Prof. Alaa Abdelbari, VP Arab Academy for Science, Technology & Maritime Transportation, presented the progress achieved in the TouMaLi project, which covers Egypt, Morocco, Tunisia, and Germany. The main objective of the project, as he demonstrated, is to support the tourism sector in the frame of sustainable development and the control of marine pollution resulting from waste, most of which is plastic, in hotel sector, tourism establishments, and beaches. Prof. Abdelbari also referred to the damage that plastic pollution causes to the marine environment and its biodiversity, its long-term effect on human health through food chains, and its economic consequences.



Prof. Dr. Alaa Abdelbari
VP Arab Academy for Science,
Technology & Maritime Transportation

Prof. Abdelbari then listed the entities and companies involved in the TouMaLi project, which began in July 2021 and continues until 2025. He then showed the content of each work package of the project and its outcome so far, in particular the formation of a company specialized in the technical and economic aspects of waste management. He also presented the experience of incorporating a course on marine pollution into the curriculum of the School of Maritime Transport in the AASTMT. He then showed in his presentation the difficulties that one can face in detecting the source of pollution in seas' and oceans' waters. Moreover, he mentioned the difficulties that the project faces resulting from the informal sector that operates in the field of waste collection, especially plastic waste.

Prof. Abdelbari stressed upon the importance of community outreach, especially in schools and universities, and expressed his wishes for the project to yield a number of recommendations that could be adopted at the domestic and international levels.

Prof. Abdelbari was asked about the companies that are being established as an outcome of funded projects and about their sustainability and success. He presented TouMaLi's experience in this regard, the partnerships created within the activities of the project and the advantages of having diverse experiences under the existing legislation and its incentives, which facilitate investment in science and innovation.

Legislative systems to protect the environment from plastic waste

Dr. Dina Abdelmagid, Faculty of Law, Zakazik University, highlighted the different legislation systems that have been enacted to protect the environment from unmanaged waste, and indicated that there are a number of international treaties ratified by Egypt and binding international legislation. She also listed the national legislative progression starting from the Constitutions to the laws passed by Parliament and the decisions of the Prime Minister and Ministers to the local decisions of the governors.

Articles on the preservation of the environment in successive constitutions were presented, the most recent being in the 2014 Constitution, articles 45 and 46, which imposed social and economic policies guaranteeing the preservation of the environment and citizens' right to a viable environment.

Dr. Abdelmagid then introduced the laws enacted for environment and waste management, starting from Law 4/1994 to Law 202/2020.

With regard to municipal decisions, Dr. Abdelmagid mentioned that governors have the same powers as the President of the Arab Republic of Egypt to issue binding decisions that have the force of law if they do not contravene an existing legal provision.

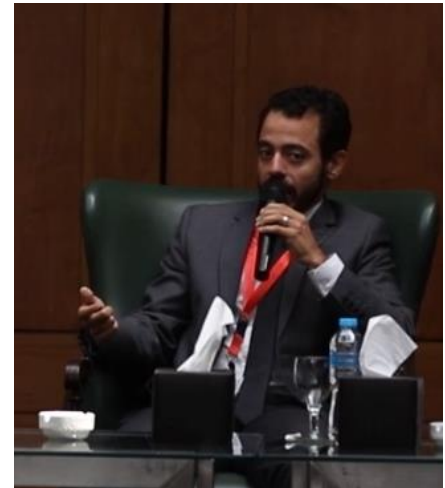
When asked about how to deal with legislation that is not punishable by law in case of a breach, she pointed out that in case of expected violation of the statutory text or decisions, the local Governor or the local council can issue decisions in the form of fees, having the power of law.



Dr. Dina Abdelmagid
Faculty of Law, Zakazik

Environmental determinants in the industry of plastic packaging materials

Regarding environmental determinants in the plastic packaging industry, Eng. Ahmed Taha, IDA Chairman's Assistant, spoke about the role of the Industrial Development Authority in ensuring the environmental norms as per Law No. 15 of 2017 when issuing licences to industrial enterprises and ensuring all environmental dimensions in the industrial units. He also referred to the role of the SwitchMed I project in entrenching the rules of sustainability and the circular economy in the Industrial Development Authority. Moreover, Eng. Taha highlighted the IDA's role in supporting industries that combat plastic waste generation, such as recycling projects, and the importance of introducing new technologies into the industry.



Eng. Ahmed Taha
IDA Chairman's Assistant



Discussions and Interventions



Prof. Dr. Alaa Sarhan,
Ain Shams University

- The importance of providing incentives to change habits in the use of single-use plastics.
- There is a sector of citizens that re-uses single-use plastic bags as well as other packaging materials.
- The subject of pricing the SUPB needs clarification.
- Do we target the use of eco-friendly alternatives or target the change of the current plastic bag from single to multiple use?



Dr. Mona Kamal,
Former EEAA Director

- The importance of applying Extended Producer Responsibility (EPR) to regulate recycling activities.
- A codified gradual use of recycled materials along with virgin



Eng. Walid Kohil,
Hyper One

- The importance of progressive implementation of new legislation and technical specifications.
- The importance of the role of the media in the success of the implementation of the action plan.
- The possibility of an increase in the price of alternatives once the free distribution of plastic bags is prohibited.



Prof. Dr. Mona Abdelrahim
NRC

- The importance of using all kinds of alternatives.
- In addition to the customers of the commercial chains, there is a broad base of users that should be targeted.
- Scientific research in Egypt went a long way towards studying and developing plastic packaging materials using environmentally friendly alternative polymers.



Dr. Adel El-Shafei,
WMRA

- Technology transfer should not be limited to manufacturing equipment but should include the range of chemicals used with raw plastics.
- The need for more in-depth study on trans-boundary pollution in both regional and international waters.
- The importance of regional coordination to combat marine pollution.
- Organizing a garbage-collection competition on a national scale.



Mr. Salah Kabesh,
MOT

- The importance of scientific research in eliminating the phenomenon of plastic waste.
- The classification of shopping plastic bags according to their use may help in the implementation of the action plan.



Eng. Mohamed Said,
EEAA

- The need of more efforts to control microplastic emissions.
- Risk of pollution of marine reserves as a result of unknown sources of plastic waste received from international waters.
- The importance of community awareness in reducing marine plastic pollution.

Concluding Points

The roundtable discussion provided valuable insights into the problem of pollution caused by plastic packaging materials and single-use plastic bags in Egypt. Some of the imperative points presented by the attendees during the roundtable discussions can be listed as follows.

Legislative and regulatory aspects

- Egypt has taken thoughtful steps towards reducing pollution resulting from the use of SUPBs by enacting binding legislation and technical specifications. However, applying a collaborative approach between different stakeholders is key to effective implementation of the developed strategy.
- The need for progressive implementation of legislation side by side with comprehensive campaigns to raise the customer's awareness and direct him/her to choose between using the multi-use bag or paying the value of the single-use bag.
- The informal sector is an obstacle to sound waste management processes.
- In case of expected violation of the statutory text or decisions, the local governor or the local council can issue decisions in the form of fees, having the power of law.
- The importance of applying EPR to regulate recycling activities.
- The need for more in-depth study and regional coordination on trans-boundary pollution in both regional and international waters.
- The need for more efforts on a global scale to control microplastic emissions.

Social aspects

- Commercial chains can create motivation campaigns and develop an incentive system that fits their process and is acceptable by their customer.
- In addition to the customers of the commercial chains, there is a broad base of users that should be targeted by the awareness companies.
- The important role of the media in the success of the implementation of the measures.
- Organizing competitions on innovative material and technology designs as well as waste collection can support efforts to reduce the use of SUPs.

Technical and financial aspects

- Incentives must be named and identified for alternative producers.
- Technology transfer should not be limited to manufacturing equipment; it should include the range of chemicals used with raw plastics.
- The industrial sector is able to adopt the production of environmentally friendly alternatives. However, it is important first to create real market demand.
- Technical and financial support for the recycling industry, along with an effective waste collection system, are the main solutions to the issue of plastic waste pollution.
- A codified gradual use of recycled materials along with virgin ones should support the reduction of plastic waste.



Annex 1: Official Invitation

Launch of the SwitchMed Project in EGYPT

You are cordially invited to

the Launching of SwitchMed Project & the Roundtable on Sustainable Consumption and Production: "Plastic Pollution Control"

Co-convened by the Egyptian Ministry of Environment, CEDARE
& UNEP with the support of SwitchMed;
a programme funded by the European Union

For confirmation, kindly fill in the registration form no later than Saturday 6 May

 **Venue: Semiramis InterContinental Hotel, Cairo
Teeba Ballroom**

 **Tuesday 9 May, 2023**  **09:00 a.m. - 2:30 p.m.**



Annex 2: Agenda

ROUNDTABLE on Sustainable Consumption and Production "Plastic Pollution Control"

Co-convened by Ministry of Environment (WMRA) & CEDARE in the frame of SwitchMed Project

Time	Session
11:30 – 12:45	<p>SESSION 1: Pollution resulting from excessive use of Lightweight Plastic Bags and actions to limit their use</p> <ul style="list-style-type: none"> • Overview on the problem at global and local scales • The role of the commercial sector in limiting the use of SUPBs • The impact of legislation and measures on the industrial sector • Technology transfer in the field of plastic packaging industry • Open Discussion <p>Moderator: Dr. Ahmed Abdelkader, Sr. Expert, CEDARE</p>
12:45 – 01:00	Coffee Break
01:00 – 02:15	<p>SESSION 2: Pollution resulting from Plastic Packaging Materials</p> <ul style="list-style-type: none"> • Marine plastic pollution - challenges and solutions • A legislative system to protect the environment from plastic waste • Green transformation of plastic packaging industry • Environmental determinants in the industry of plastic packaging materials • Open Discussion <p>Moderator: Eng. Yosra Abdelaziz, GM, Minister of Environment's Technical Office</p>
02:15 – 02:30	Wrap-up and Closing Remarks
02:30 – 03:30	Lunch Break
03:30 – 05:00	SESSION 3: Intergovernmental Negotiations Committee (INC)-Plastic Pollution submission-report (Closed meeting)



Annex 3: Concept Note



BACKGROUND

Egypt attaches increasing importance to the process of localizing the Sustainable Development Goals (SDGs) as they have an impact on the achievement of inclusive and sustainable growth and balanced development. From this perspective, the Egyptian Sustainable Consumption and Production National Action Plan (SCP-NAP) was developed and officially launched during the African Ministerial Conference on the Environment (AMCEN) which was held in Cairo on April 18, 2016, followed by a bundle of effective actions in recent years to achieve the desired goals.

The SCP-NAP addresses four priority sectors: water, energy, agriculture, and municipal solid waste, and this round table we're in is concerned with the discussion of solid waste, especially waste of plastic packaging materials and single-use plastic items. Actions that have been and will be taken by the Egyptian authorities in this regard will also be considered in the dialogs.

On the other hand, the round table will also consider in the discussions the submission of the Egyptian government¹ to the Intergovernmental Negotiating Committee (INC-Plastic Pollution) on the proposal of the international legally binding instrument in regard to limiting plastic pollution in marine and other environments.

It is worth noting that plastic waste is an important issue in many countries, including Egypt. It is a pervasive and persistent problem, as most of the currently used plastics are not biodegradable and can take hundreds of years to decompose in landfills. In Egypt, lack of proper waste management practices and infrastructure has led to widespread plastic pollution. The country generates around 26 million tonnes of waste each year², with 6 - 14% being plastic waste^{3,4}.

¹ <https://wedocs.unep.org/bitstream/handle/20.500.11822/41869/Egypt%27s%20Written%20Submission%20for%20INC.pdf?sequence=1&isAllowed=y>

² WMRA, MOE, press-release, Nov. 21, 2020.

³ Export Council for Chemical and Fertilizer Industries, press-release, Sep. 9, 2021.

⁴ MTI, press-release, Feb. 13, 2022.



The government has undertaken several initiatives to tackle plastic pollution over the past few years. On October 13, 2020, a new waste management legislation was promulgated⁵. It is characterized by the fact that there is a unified regulator responsible for the management of waste, and it aims to reduce waste generation, encourage recycling, and establish a comprehensive waste collection system.

With regard to the reduction of the consumption of single-use plastic bags, article 27 of the law stipulates that plastic bags should be manufactured according to the technical specifications and should not be sold, traded, or distributed free of charge. The article also provides for incentive systems to encourage the production and manufacture of safe and environmentally friendly alternatives to single-use plastic bags.

On February 22, 2022, the Executive Regulation of the Law was promulgated and approved by the Prime Minister⁶, followed by the issuance of new technical specifications for the single-use plastic shopping bag by the Egyptian Organization for Standardization and Quality⁷.

On November 17, 2022, in coordination with the Ministry of Environment, the Minister of Trade and Industry issued Decision No. 559, which mandated the use of the new technical specifications in the manufacture of plastic shopping bags as of May 18, 2023.

ABOUT THE ROUND-TABLE

The round table is concerned with the discussion of the waste of plastic packaging materials and single-use plastic items, and measures and actions that should be taken to limit plastic pollution in marine and other environments.

Moreover, pollution caused by the use of single-use plastic bags will also be considered in the discussions including what has been achieved to limit the use of such bags, means of implementing legislation and measures taken by the Egyptian authorities, and actions to be taken in the next phase.

⁵ Waste Management Law No.202 of 2020.

⁶ Prime Minister's Resolution No. 722 on Feb. 22, 2022.

⁷ Egyptian Standard No. ES3040-2022.



Annex 4: List of Participants

#	Title	Name	Position/Entity	Sector
1	H.E. Dr.	Yasmin Fouad	Egyptian Minister of Environment	Government
2	Ms.	Sylvie Fontaine	Project Officer for Environment and Climate Change, European Commission	International Organization
3	H.E. Dr.	Laila Iskander	Former Minister of Environment	Government
4	Dr.	Adel ElShafei	Senior Advisor, WMRA	Government
5	Mr.	Adel Taha	Sustainable Development Expert, Federation of Egyptian Industries (FEI)	Government
6	Mr.	Ahmed Aboul Gheit	Diplomat, Ministry of Foreign Affairs	Government
7	Mr.	Ahmed Kamal Abdelmoneim	Executive Director, FEI Technical Advisor	Government
8	Mr.	Ahmed Naser Ahmed Darwish	Economic Research Specialist, Suez Canal Authority	Government
9	Mr.	Ahmed Taha	IDA Chairman's Associate, Industrial Development Authority (IDA)	Government
10	Ms.	Aliaa Ali	Manager, Plastic and Rubber Section, FEI - Chamber of Chemical Industries	Government
11	Ms.	Aliaa Sherif	General Coordinator Strategic Partnership and External Relations, MSMEDA	Government
12	Mr.	Assem Ahmed Zenhom ElShahat	Economic Researcher, Economic Unit, Suez Canal Authority	Government
13	Mr.	Diaa Hamza	CEO, Chamber of Chemical Industries	Government
14	Dr.	Heba Shaarawy	GM for Environmental Economy & SCP/RAC & SwitchMed Focal point, Ministry of Environment	Government
15	Dr.	Hossam Abdel Karim	Chairman of the Blue Economy National Group – Deputy Director of Planning, Research and Studies Department, Suez Canal Authority	Government
16	Mr.	Hossam S. Ezzeldin	Program Director, EPAP III, Ministry of Environment	Government



17	Eng.	Khadiga Mostafa	Second Planning Researcher, Studies & Development Central Department, Ministry of Transport	Government
18	Mr.	Maysara Fouad Abdallah	Head of RECP and Green Economy Department, Ministry of Trade and Industry (ENCPC)	Government
19	Dr.	Mohamed Negm	President Assistant, Industrial Development Authority (IDA)	Government
20	Mr.	Mohamed Said Abdelwarith Attea	Environmental Researcher, Egyptian Environmental Affairs Agency	Government
21	Mr.	Mohammed Osama	Director of Trade and Environment Department, Agreements and Foreign Trade Sector, Ministry of Trade and Industry	Government
22	Ms.	Naglaa El Sayed	Media Specialist, WMRA	Government
23	Dr.	Nagwa El-Karawy	Senior Advisor to Minister of Environment, Ministry of Environment	Government
24	Mr.	Salah Kabesh	General Manager, Ministry of Transport	Government
25	Dr.	Tarek Alaraby	CEO, Waste Management Regulatory Authority (WMRA)	Government
26	Ms.	Yasmeen Sayed	Environmental Engineer, WMRA	Government
27	Ms.	Yosra Abdelziz	GM, Minister's Technical Office, Ministry of Environment	Government
28	Dr.	Ahmed Kamal	Executive Director, UNIDO - Plastic Waste	International Organization
29	Dr.	Ashraf El-Abd	Chief Program Officer, JICA	International Organization
30	Ms.	Iman Radwan	Senior Program Officer, Swiss Embassy in Egypt	International Organization
31	Mr.	Kerollos Anwar	Secretary General, Italian Chamber of Commerce in Egypt	International Organization
32	Ms.	Kerstin Deji	Head of Program, GIZ	International Organization
33	Mr.	Luc Reuter	Programme Officer, Industry & Economy Division, UNEP	International Organization



34	Mr.	Mostafa Yacoub	Circular Economy Advisor, GIZ	International Organization
35	Mr.	Nader Helmy	Business Coordinator, Travel Assistant & Data Management, Italian Chamber of Commerce in Egypt	International Organization
36	Ms.	Sherien Ali	Waste Management Advisor, GIZ	International Organization
37	Ms.	Yoshiko Sano	Advisor, JICA	International Organization
38	Mr.	Ahmed Shawky	Project Manager, Kazyon Markets	Retailer
39	Mr.	Ashraf Ahmed Masoud	Purchasing Manager, HyperOne	Retailer
40	Ms.	Enjy Akel	Marketing and Business Development Director, Kazyon Markets	Retailer
41	Mr.	Hossam Aboelhassan	Country CCO Manager, Carrefour	Retailer
42	Mr.	Mohamed Hassan	GM Development, Carrefour	Retailer
43	Ms.	Nour Azer	Communications Executive, Mansour Group, Metro & Kheir Zaman	Retailer
44	Ms.	Salma Fathy	Head of Sustainability Department, Maged El-Fotaim Group (MAF-Retail)	Retailer
45	Mr.	Seif Batanouny	GM Corporate Affairs, Mansour Group, Metro & Kheir Zaman	Retailer
46	Mr.	Waleed Kohil	Department Head of Consumable & Raw Material Purchasing, HyperOne	Retailer
47	Prof.	Ahmed Mahmoud Abdel Halim	Professor of Marine Chemistry, Dean of NIOF, Suez Branch, National Institute of Oceanography and Fisheries (NIOF)	Academia
48	Dr.	Alaa Abdelwahed Abdelbary	Vice President for Postgraduates Studies and Scientific Research, Arab Academy for Science & Technology & Maritime Transport	Academia
49	Dr.	Alaa Sarhan	Vice Dean of Community Affairs and Environmental Development, Faculty of Environmental Studies, Ain Shams University	Academia
50	Mr.	Bahi Ashraf	Research Coordinator, APS-AUC	Academia
51	Dr.	Dina Ibrahim Abdelmagid	Doctor at Faculty of Law – Zakazik University	Academia



52	Prof. Dr.	Mona Abdelrahim	Professor of Packaging Materials, National Research Center	Academia
53	Ms.	Sana Sherif	Lead Researcher on Climate Issues, APS-AUC	Academia
54	Mr.	Mostafa Rekeiby	President, Merghem Investors Society	NGO
55	Mr.	Ahmed Ebied	Senior Business Development Manager, Mitsui & Co., Egypt	Private Sector
56	Mr.	Ali Wanas	Regulatory Affairs Director, Procter & Gamble	Private Sector
57	Eng.	Karim Adel Abdel Karim	Head of Energy Transport and Sustainability Department, EGAS	Private Sector
58	Eng.	Mennatallah Mohamed	Engineer, Energy Transport and Sustainability Department, EGAS	Private Sector
59	Mr.	Mohamed Abdeltawab	Senior Environmental Specialist, SHIFERRA Consultancy	Private Sector
60	Ms.	Mona Kamal	Senior Environment Expert, CID Consulting Company	Private Sector
61	Dr.	Mostafa Ibrahim	President, Al-Ahram for Trading and Industries Co.	Private Sector
62	Ms.	Noha Maher Abdel Maksoud	Blue Economy General Manager, EGAS	Private Sector
63	Ms.	Enas Mohamed Kamel Morsy	Executive Manager, Suez Canal Bank	Financial Institution
64	Mr.	Mazen Hossam El Din	Deputy Manager Sustainability, National Bank of Egypt	Financial Institution
65	Mr.	Sameh Moukhtar	Senior Sustainability Officer, National Bank of Egypt	Financial Institution
66	Ms.	Eman Mansour	Media - Al-Omah	Media
67	Ms.	Hanan Badawy	Media – Elaosboa	Media
68	Ms.	Hanan Ezzat	Media - Elaosboa	Media
69	Mr.	Hassan Baraka	Media - Alakhbar	Media
70	Ms.	Hend Abdel Aziz Saeed	Media - Media East News	Media



71	Dr.	Mahmoud Bakr	Media – ElAhram	Media
72	Ms.	Mona Abdel Naeem	Media - ALGomhorya	Media
73	Ms.	Olfat Saad	Media - Rosaelyoussef	Media
74	Dr.	Ahmed Abdelkader	Senior Expert, CEDARE	CEDARE
75	Ms.	Amira Khattab	Admin Officer, CEDARE	CEDARE
76	Ms.	Ghada Moghny	Senior Programme Coordinator, CEDARE	CEDARE
77	Dr.	Hossam Allam	SGP Regional Director, CEDARE	CEDARE
78	Ms.	Lamia Nabil	SGP Administration & Communication Officer, CEDARE	CEDARE
79	Ms.	Marwa El Hageen	Administrative Assistant, CEDARE	CEDARE
80	Ms.	Sahar Ezz El-Arab	Admin Officer, CEDARE	CEDARE
81	Ms.	Salma Nooh	Junior Programme Coordinator, CEDARE	CEDARE
82	Ms.	Salma Sabri	Strategic Planning, Evaluation and Learning Consultant	CEDARE
83	Mr.	Samir Sayed Mahmoud	IT Associate, CEDARE	CEDARE
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