



# Sustainable Growth Division

## Activity Report

2016 - 2017



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## Executive Summary

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CEDARE's Sustainable Growth Programme (SGD) addresses new and emerging concepts related to environment and development for human well-being, with a focus on issues related to Sustainable Consumption and Production, Green Economy, and Green ICT. The Programme collaborates on global, regional and national efforts, addressing: poverty alleviation, health, waste reduction (e-waste), green jobs, green ICT, pollution reduction, greenhouse gas emissions, sustainable consumption and production, and energy security. Together with its wide partner base from the international, regional and national community, the SGD implements projects, conducts research and studies, and provides training and knowledge dissemination.

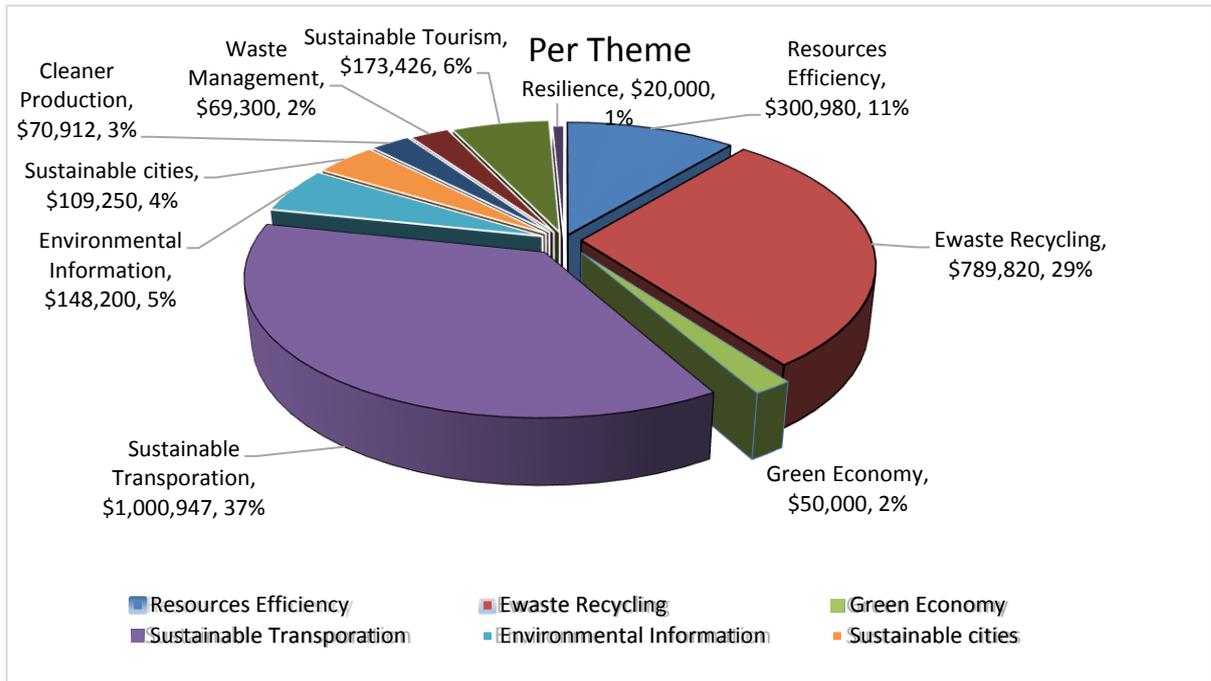
The Sustainable Growth Division (SGD) has been involved in implementing **19 regional and national projects** supported by the **European Commission and the Swiss & German government**.

SGD embarked on a national study on E-waste assessment for Egypt in cooperation with the United Nations Development Programme, in addition to a regional review of 12 countries in the Arab region on the status of sustainable cities approaches and policies. SGD staff participated and/or co-organized 22 international, regional and national events.

These activities have been implemented in the Mediterranean region, Middle East, North Africa, and West Africa, in collaboration with a wide number of regional and European partners, some of which involve consortia of over 20 international partners. The activities addressed were waste management, cleaner production and best available techniques, green ICT, environmental tourism, and green economy.



## SGD Project's Portfolio



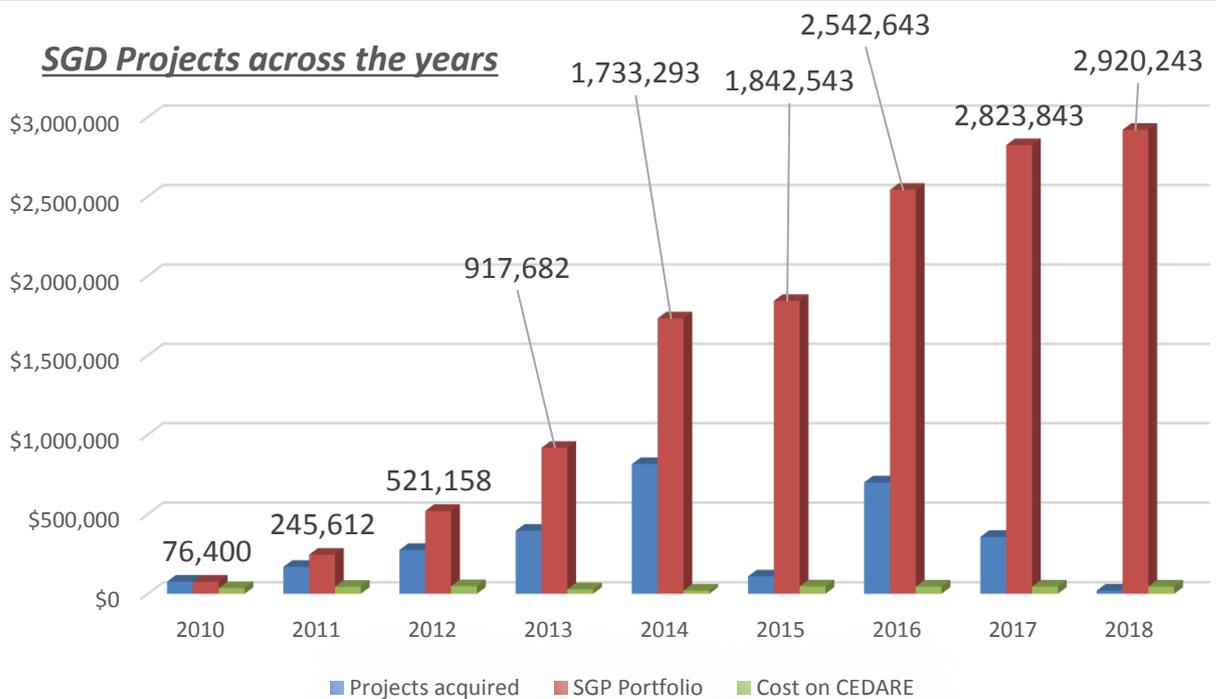
### SGP Themes

- Resource Efficiency & Green Economy
- Waste Management & Recycling Industries
- Sustainable Cities & Communities
- Sustainable Transportation
- Sustainable Tourism
- Environmental Information

### Key Strengths

- Regional & International Experience
- Strong Partnerships
- Proactive team

### SGD Projects across the years



## E-waste Recycling

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### 1. EXTENDED PRODUCERS RESPONSIBILITY SCOPING STUDY (JUNE 2010 – DECEMBER 2010), WRF

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The World Resources Forum Association (WRFA) and the Centre for Environment and Development for the Arab Region and Europe (CEDARE) cooperate to introduce Extended Producer Responsibility for electrical and electronic equipment in Egypt. This initiative is part of the Sustainable Recycling Industries Project.

According to the OECD definition: “Extended Producer Responsibility (EPR) is an environmental policy approach in which a producer’s responsibility for a product is extended to the post-consumer stage of a product’s life cycle. In practice, EPR implies that producers take over the responsibility for collecting or taking back used goods and for sorting and treating for their eventual recycling. Such a responsibility may be merely financial or Organizational as well. The policy first appeared in the early 1980s in a few European Member States, especially for packaging waste, and since then it has continuously spread around the EU (and abroad).”

CEDARE is coordinating and partnering with the Swiss SRI programme to develop and perform a scoping / benchmarking study for possible EPR approaches in Egypt for digital and electronic products. The study is a broad assessment of opportunities and challenges to promote establishing the EPR system in Egypt for electrical and electronic equipment. It will explore the relevant legislations and regulations, listing examples of national voluntary EPR practices, with a view of identifying policy priority areas for promoting EPR, existing constraints and policy enabling conditions. In addition, it provides pointers towards key policy reforms where applicable.



The study was specifically designed to review the current relevant legislative or regulatory policies and provide about 10 local business case studies representing local manufacturers and importers. In addition to highlighting successful international practices and policy packages that have been endorsed by governments to implement feasible and operating EPR systems.

This study was further utilized in conversation with relative stakeholders to reach an optimum EPR system that is best fitting Egypt. The EPR study serves as basis for the current National Take Back System that Cedare has initiated and the Ministry of Communication and Information Technology has taken the lead on.

## 2. TECHNICAL ASSISTANCE FOR E-WASTE STUDY FOR EGYPT (JUNE 2014 – JUNE 2016), UNDP

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The Center for Environment development for the Arab Region & Europe (CEDARE) and the United Nations Development Programme entered this agreement to perform an E-Waste Assessment in Egypt. Electronic E-waste Management in the Arab Region has been one of these sectors that CEDARE has been promoting since 2009 as a means for creating green jobs and reducing the hazardous effects of E-waste on the citizens.



CEDARE conducted two studies to assess E-waste management practices in the Arab region 2008 and 2010. In cooperation with Empa (The Swiss Federal Laboratories for Materials Science and Technology), CEDARE conducted the needs assessment for E-waste management in Egypt. To further shed light on their relationship, CEDARE and Empa signed a Memorandum of Understanding to establish a team to help the Arab countries in their E-waste initiatives.

Moreover, CEDARE raised awareness about the E-waste threats and opportunities by organizing two E-waste forums during 2009 and 2010 at Cairo and Marrakech respectively. CEDARE cooperated with German partners for the project Best of two worlds approach that aimed at establishing cooperation among Egyptian and German companies in the E-waste recycling sector. Currently CEDARE is the Regional focal point for the Middle East and North Africa and was elected as a steering committee member of Solving the E-waste Problem Initiative (StEP), an international initiative administrated by United Nations University. Cedare's status as a member of the Green ICT Strategic Team at the Ministry of Communication and Information Technologies (MCIT) probed it to support the study.

## 3. SUSTAINABLE RECYCLING INDUSTRIES (SRI) PROJECT (APRIL 2016 – JUNE 2018), WRFA

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Electronic waste, also known as e-waste, is one of the fast-growing types of waste worldwide which includes discarded electrical or electronic equipment such as old televisions, computers, printers, mobile phones and lead batteries. High toxicity of e-waste, including lead, causes pollution and health problems if improperly disposed of through methods like incineration. On the other hand, e-waste contains important secondary non-renewable materials such as copper. Disposal of such valuable materials means that they are lost forever and cannot be regenerated. This fact is the pillar behind countries worldwide to mine for new materials.



In 2016 the Swiss Government one of the pioneer countries in the e-waste management, signed an agreement with the Egyptian Government represented in the Ministry of Communication and Information Technology (MCIT) to launch the Sustainable Recycling Industries (SRI) Project in Egypt. The overall objective is to support the sustainable integration and participation of small and medium enterprises in the global recycling of secondary and non-renewable resources. The success of the first phase of SRI project was

the result of an efficient multi-stakeholder process where all the concerned partners were fully engaged to support the objectives of the project and pave the way for an e-waste industry in Egypt. The electronic waste in Egypt represents a real opportunity for the country that should be seized in the most effective way in order to boost the economy and foster the e-waste industry.

The highlight of the first phase of the project was the beneficial multi-stakeholder cooperation. The multi-stakeholder inclusive process was crucial for the success and sustainable continuation of the project. This has clearly raised awareness and transferred knowledge between all the different stakeholders of the project.

- *SRI 1st Steering Committee Meeting (May 9, 2016), MCIT - Cairo, Egypt*

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On May 9th, 2016, the Ministry of Communication and Information Technology (MCIT) hosted the first meeting of the Sustainable Recycling Industries (SRI) Steering Committee. Chaired by Eng. Khaled El Attar (MCIT), the committee comprised representatives of the Ministry of Foreign Trade & Industry, Ministry of Finance, Swiss Embassy, and the Project Management Unit at CEDARE.

The SRI SC meeting was directed at introducing and making core stakeholders familiar with SRI Project's objectives, components, implementation plan and deliverables. This meeting emphasized and clearly highlighted the level of involvement of each organization within the project, as well as the roles and responsibilities assigned to each one, to affirm the synergy between stakeholders which is fundamental to reach the project's objectives.

- *Launching of the SRI Project (July 26, 2016), MCIT - Cairo, Egypt*

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On the 26th of July 2016, Cairo witnessed the launch of the Sustainable Recycling Industries-SRI Project in Egypt as the result of the agreement signed between the Egyptian Government, represented by the MCIT, and the Swiss Government, represented by the Swiss Embassy in Cairo, in March 2016. The meeting was inaugurated by H.E. Eng. Yasser Elkady, Egyptian Minister of MCIT, H.E. Dr. Khaled Fahmy, Egyptian Minister of Environment, H.E. Mr. Marco Leitner, the Swiss Ambassador to Egypt as well as a distinguished team of experts from Switzerland.



Based on the “Needs assessment of the e-Waste sector in Egypt” which was prepared in cooperation with the Swiss Federal Laboratories for Materials Science and Technology-EMPA, the SRI Project is locally implemented by the Center for Environment and Development for the Arab Region and Europe (CEDARE), MCIT and the international experts from Sofies Switzerland. Cooperation with the Egyptian ministries of Environment, Finance, and Trade and Industry is operational and synergies with other e-waste related projects that was also pursued.

- *SRI 2<sup>nd</sup> Steering Committee Meeting (September 27, 2016), MCIT - Cairo, Egypt*

In the framework of the Sustainable Recycling Industries (SRI) project, the second steering committee meeting was held on the 27th of September 2016 at the Ministry of Communications and Information Technology (MCIT) premises. Chaired by the Director of the IT infrastructure Sector, MCIT, the meeting was attended by all members including CEDARE's Project Management Unit, representatives of the Ministry of Finance, representatives of Ministry of Trade and Industry, representatives of Ministry of Environment, and from the Swiss side; representatives of Sofies Institute, the Swiss Federation of Materials Science and Technology Laboratories, and the Swiss Embassy in Cairo.

- *SRI Advisory Board Meeting (January 11, 2017), MCIT - Cairo, Egypt*

As one of the key deliverables, the SRI Project advisory board was established, and the first meeting was held on January 11th, 2017 at the Ministry of Communication & Information Technology (MCIT). The structure of the board incorporates CEDARE, Egypt National Cleaner Production Centre (ENCPC), Egyptian Organization for Standards & Quality, Information Technology Institute (ITI), MCIT, Ministry of Environment, Ministry of Finance, Ministry of Industry, National Telecom Regulatory Authority (NTRA), Social Fund for Development (SFD), Technology Innovation and Entrepreneurship Center (TIEC) & UNDP GEF.



- *SRI 3<sup>rd</sup> Steering Committee Meeting (February 1, 2017), MCIT - Cairo, Egypt*

On February 1st, 2017, the Steering Committee members of the Sustainable Recycling Industries (SRI) Project met in one of a series of periodical meetings to follow up on the implementation of the project at the technical and operational levels. The meeting, chaired by the Director of Information Infrastructure Division and hosted by the Ministry of Communications and Information Technology (MCIT), was attended by all members and the CEO of Sofies and the Project Director and Coordinator representing the Project Management Unit in CEDARE besides all partners and stakeholder.



- *SRI Training Workshop on Sustainable E-waste Management (April 10-11, 2017), Semiramis Intercontinental - Cairo, Egypt*

The Swiss Sustainable Recycling Industries (SRI) Project, implemented by the Egyptian Ministry of Communication & Information Technology (MCIT) & the Centre for Environment and Development for the Arab Region & Europe (CEDARE) collaborated with the UNDP/GEF Medical and Electronic Waste Management Project, implemented in partnership with the Egyptian Ministry of Environment in organizing the training workshop on “E-Waste Sustainable Management”. The training took place during the period from April 10-11, 2017 at the Semiramis Intercontinental Hotel, Cairo, Egypt.



The training aimed at building the capacities of different stakeholders and specialists in the field of e-waste sustainable management, had comprehensively conferred a wide range of headlines including the sector’s global and local context, green jobs, standards and conformity, assessment techniques, as well as non-hazardous sound technologies. Training Workshop on Sustainable E-waste Management – Train the Trainers for Auditors – SRI Project (May 15, 2017), Semiramis Intercontinental - Cairo, Egypt

The Sustainable Recycling Industries (SRI) Project in Egypt in coordination with the UNDP-GEF project and CEDARE co-organized a **“Train the Trainers for Auditors”** on the 15th of May 2017 at Semiramis Intercontinental Hotel in Cairo.

The training focused on the following aspects:

- How to perform the audit;
- Role of an auditor;
- Pictures of best and bad practices;
- Explanation of each question of the checklist and discussion of the result of the audit performed at ITG and Discussion on possible adaptations to the checklist or future adaptations.

The meeting was attended by representatives from the different Egyptian ministries, International counterparts presented in SOFIES, the CEDARE SRI Project team, CEDARE senior experts, the UNDP- GEF team, the accelerators and the future entrepreneurs.

- *SRI Technical Training on E-waste Recycling Technology (May 16-17, 2017), Semiramis Intercontinental - Cairo, Egypt*
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The Sustainable Recycling Industries (SRI) Project in Egypt in coordination with the UNDP-GEF project organized a **“Technical Training on E-waste Recycling Technology”** 16-17 May 2017 at Semiramis Intercontinental Hotel in Cairo.

The training focused on the following aspects:

- The E-waste recycling chain (best available technologies BATs and best environmental practices BEPs);
- The fractions after dismantling and recycling (cost/effectiveness analysis of BAT/BEP);
- The BAT/BEP of plastics sorting, dismantling and final treatment;
- The technical support program for the formal recyclers and
- The business models.



The meeting was attended by representatives from the different Egyptian ministries, International counterparts presented in SOFIES, the CEDARE SRI Project team, CEDARE senior experts, the UNDP- GEF team, the accelerators and the future entrepreneurs

- *SRI Environmental Registry Training (August 22, 2017), CEDARE - Cairo, Egypt*
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On 20th August 2017, the Swiss Sustainable Recycling Industries (SRI) management unit based at CEDARE and the Ministry of Communication and Information Technology (MCIT) organized a training workshop on Environmental Registry. Participants, who are beneficiaries of the SRI Accelerator Programme for existing enterprises and beneficiaries of the SRI Entrepreneurship Support and Incubation Programme: E-Khorda, acquired technical and operational competence to prepare the mandatory environmental registry in the one-day training.



- *SRI – EPR Consultation Session on Establishing Take Back Systems for Electrical and Electronic Equipment (September 19, 2017), Intercontinental City Stars - Cairo, Egypt*
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On September 19th, 2017, the Swiss Sustainable Industries (SRI) project, in collaboration with CEDARE and the UNDP/GEF Medical & Electronic Waste Project, organized a Consultation Session on Establishing National Take-Back system for Electrical and Electronic Equipment using Extended Producer Responsibility (EPR) Financing Mechanism.



- *SRI 4th Steering Committee Meeting (September 20, 2017), MCIT - Cairo, Egypt*
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CEDARE Co-organized the fourth and last meeting of the steering committee of the Sustainable Recycling Industries (SRI) Project that was held on the 20th of September 2017. The committee, which was chaired by the Ministry of Communication and Information Technology (MCIT), met to regularly monitor the progress of activities against the implementation plan.



- *SRI – E-waste Dismantling Training Workshop (December 4-5, 2017), EERC - Cairo, Egypt*
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In continuation of the numerous collaborations between the Swiss SRI Project and UNDP-GEF E-Waste Management Project, the E-Waste Dismantling Training Workshop was jointly co-organized on the 4th & 5th of December 2017. International experts from Sofies and an Italian recycler delivered the hands-on training, which was held in Giza at one of the accredited Egyptian recycling facilities, EERC.



## Solid waste

### 4. SOLID WASTE MANAGEMENT OUTLOOK FOR WEST ASIA (2017 – 2018)

This Outlook report should provide a positive and progressive assessment of the West Asia region as a sustainable investment opportunity. This review should also examine the key waste management challenges in building up waste collection, treatment and disposal infrastructure that is robust, economically viable and environmentally sustainable across the 12 countries in the region. This data will be interpreted and analyzed to support the progression of the implementation of the necessary capacity and capability building supporting integrated waste systems, stakeholder networks, the circular economy and smart waste systems focusing on using waste as a resource and as an investment opportunity. Work on the outlook report is still underway in cooperation with stakeholders from countries in the West Asia region.

- *Waste Management Outlook for West Asia Meeting (November 20-22, 2017), CEDARE - Cairo, Egypt*

Under the framework of the joint project between CEDARE and UN Environment to develop the Waste Management Outlook for West Asia, a meeting was held at CEDARE premises from 20 to 22 November 2017 between the different partners involved in the development of the Regional Outlook.

The purpose of the meeting was to review and agree on the structure of the draft Waste Management Outlook for West Asia objective, outcome, annotated outline and work plan for its completion.

The three days meeting witnessed rich insightful discussions between the different concerned parties and generated important suggestions and remarks.



The main important outputs of the meeting were:

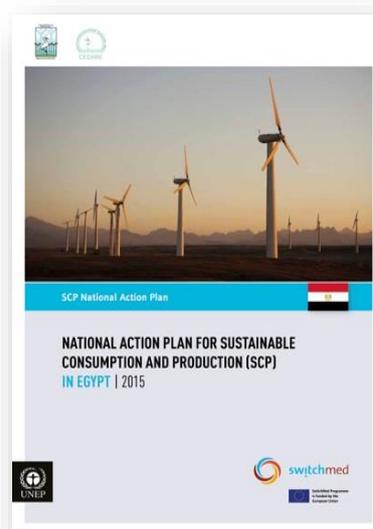
- Agreement on the overall approach of the regional outlook
- Developing the final annotated outline of the report
- Agreeing on the chapters structure and content;
- Finalizing the terms of reference of the local experts
- Developing the country profile format
- Agreed work plan with detailed timeline and responsibilities of each partner

## Resource Efficiency & Green Economy

### 5. NATIONAL ACTION PLAN FOR SUSTAINABLE CONSUMPTION AND PRODUCTION FOR EGYPT (2014 – 2016)

Adding to CEDARE's efforts in lobbying for a national transition to a green economy and adopting a sustainable development directive, the National Action Plan for Sustainable Consumption and Production (SCP) for Egypt was the result of a partnership between the Egyptian Ministry of Environment, the United Nations Environment Programme (UN Environment), and CEDARE.

SwitchMed, a multi-component project funded by the EC, aimed at designing “**Egypt National Action Plan**”, to introduce sustainable development into national plans/strategies and integrate SCP in four main sectors based on CEDARE's 'Green Economy Scoping Study for Egypt'. The action plan is focused on four priority natural resource and strategic sectors: Water, Agriculture, Municipal Solid Waste, and Energy. The implementation of the Action Plan falls under the agenda of Egypt's Sustainable Development Strategy 2030. The National Action Plan was launched by His Excellency Dr. Khaled Fahmy, Minister of Environment.



- *Press Conference to Launch the National Action Plan on Sustainable Consumption and Production for Egypt (April 18, 2016), Dusit Thani - Cairo, Egypt*

On April 18<sup>th</sup>, 2016, CEDARE organized a press conference to launch the National Action Plan on Sustainable Consumption and Production for Egypt. The National Action Plan is a significant step in a series of milestones that the Ministry of Environment has been achieving towards integrating sustainable development into national plans and strategies. The Action Plan was the result of a partnership between the Egyptian Ministry of Environment (MoE), the United Nations Environment Programme (UN-Environment) and the Centre for Environment Development for the Arab Region and Europe (CEDARE).



This Action Plan was conducted under the umbrella of the regional SWITCH-Med project, that is funded by the European Union.

The national action plan aimed to support Egypt’s overall developmental goals, reduce socio-economic hurdles and maximize environmental improvements. The action plan focused on four priority natural resource and strategic sectors. These include: Water, Agriculture, Municipal Solid Waste, and Energy. It also, promoted the replication and scaling up of SCP policies, resource efficiency programs, and green initiatives at the national level.

## 6. SWITCHMED DEMONSTRATION PROJECTS (2016 – 2018)

Once more, the United Nations Environment Programme (UN Environment), the Egyptian Ministry of Environment & CEDARE partnered to move towards efficient use of resources as mandated by Egypt’s “National Sustainable Consumption and Production (SCP) Action Plan”.



The following two projects are demonstration projects selected from the 28 projects suggested in SwitchMed’s SCP Action Plan for Egypt.

### a. REDUCTION OF PLASTIC BAGS CONSUMPTION

The project focused on targeting behavioral change through lobbying for and promoting the need of a levy to be enforced on plastic bags and charged by retailers at the point of sale. The project main activity was focused on the national awareness campaign to raise awareness about the adverse impact of plastic bags consumption on the environment and the available alternatives.



The project had various objectives namely to reduce single-use plastic bags usage in order to protect Egypt’s’ natural environment and resources and in parallel raise the awareness of public on the hazards of plastic bags. In addition, the project aimed at lobbying for a policy that would achieve the objective of reducing the use of single use plastic bags.

### b. MAINSTREAMING SUSTAINABLE PUBLIC & GREEN PROCUREMENT

Sustainable Public Procurement is a process whereby public authorities seek to procure goods, services and works with a reduced environmental impact throughout their life-cycle when compared to goods, services and works with the same primary function that would otherwise be procured. Green public procurement is a catalyzer for economic growth and market opportunities .



The types of products and services that can be procured sustainably vary from the cleaning products and services to copying paper, office buildings, electricity, food & catering services, furniture, imaging equipment etc.

The sustainable procured products can be prioritized based on their environmental impact, budgetary importance and their potential to influence the market. Introducing Sustainable Procurement in a given context relies on essential factors:

- 1) setting scope and targets,
- 2) developing an action plan,
- 3) implementing the action plan and;
- 4) Monitoring & reporting.

- *SwitchMed Demonstration Project - 1<sup>st</sup> Steering Committee Meeting (December 1, 2016), Ministry of Environment - Cairo, Egypt*

The 1<sup>st</sup> Steering Committee Meeting of the SwitchMed Demonstration project was convened on the 1<sup>st</sup> of December 2016 at the premises of the Ministry of Environment in Maadi. The meeting was attended by numerous stakeholders represented in the Ministry of Environment, the Ministry of Trade & Industry, the Ministry of Planning, the Ministry of Finance, the Ministry Energy & Electricity, representatives from UN Environment and the team of CEDARE. The meeting was headed by the Chief Executive Officer of the Egyptian Environmental Affairs Agency.



- *SwitchMed Demonstration Project - Consultation Session on Plastic Bags Reduction in Egypt – Producers Session (May 4, 2017), Cairo House - Cairo, Egypt*

CEDRAE organized the first Consultation Session on Plastic Bags Reduction in Egypt – Producers Session on May 4th, 2017 at Cairo House – Egypt.

The main two objectives of the workshop were:

1. Consult the plastics and raw materials manufacturers and importers on their views regarding the national initiative to reduce single-use plastic bags and identify any possible negative economic and social implications; and;
2. Get their initial buy-in to be involved in biodegradable bags manufacturing and other alternative products.



- *SwitchMed Demonstration Project – 2<sup>nd</sup> Steering Committee Meeting (May 22, 2017), Intercontinental City Stars - Cairo, Egypt*
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On May 22nd, 2017, the second meeting of the steering committee of the SwitchMed Demo project was held back-to-back with the consultation session with the government officials' members of the steering committee discussing the performance of the project throughout the past six months, as well as verifying and agreeing upon the future activities and implementation plans. Furthermore, the National Initiative for the Reduction of Plastic Bags Consumption launched in June 2017, was also included in the discussion.



- *SwitchMed Demonstration Project - Consultation Session on Plastic Bags Reduction in Egypt – Government Officials (May 22, 2017), Intercontinental City Stars - Cairo, Egypt*
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Taking into consideration the governmental sector's role as a key player in policy-making and regulating consumption patterns, another consultation session was jointly organized by CEDARE and the Ministry of Environment, on May 22nd, 2017, followed by a series of consecutive sessions as part of the agenda of SwitchMed Demo Reduction of Plastic Bags Consumption Project, and in partnership with the UN Environment. The consultation session was attended by several governmental authorities including the Chamber of Chemical Industries at the Federation of Egyptian Industries, the Directorate of Environmental Safety at the Ministry of Higher Education, the Directorate of Environmental Monitoring at the Ministry of Health & Population, and Ministry of Water Resources & Irrigation.



- *SwitchMed Demo Sustainable Public Procurement Roundtable (May 24, 2017), Intercontinental City Stars - Cairo, Egypt*
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CEDARE, in collaboration with the Ministry of Environment, held a roundtable meeting with the government's officials responsible for procurement and quality on 24 May 2017. The meeting objective was mainly to discuss the challenges facing sustainable public procurement (SPP) and the mechanisms required to integrate it in Egypt's governmental procurement system and further pave the way for it as a norm. Being the main buyer, the government is expected to include the green and sustainable products in the rules and regulations of governmental procurement system according to SwitchMed Demo Project implemented in cooperation with the UN Environment under the umbrella of the SwitchMed Programme & the European Commission.

- *SwitchMed Demo Consultation Session on Plastic Bags Consumption Reduction Initiative - NGO's and Media Representative (July 31, 2017), Intercontinental City Stars - Cairo, Egypt*
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As the Demo Project-Reduction of Plastic Bags is concerned with behavioral change, awareness, and sustainable impact, the sixth consultation session targeted media and public relations specialists; this meeting was mainly an opinion poll for media experts on the role of mass media in raising the awareness of the National initiative for plastic bags reduction. "When, how long, where, and how to publicize the initiative" was the main topic of the meeting held on July 31st., 2017.



Thirteen different entities participated in the session organized by the Ministry of Environment and CEDARE in partnership with UN Environment, contributing to the community dialogue mandated by the Project. These included PR & advertising agencies, digital marketing and social media companies, magazines & newspaper, and marketing consultants.

- *SwitchMed Demo Consultation Session on Plastic Bags Reduction in Egypt - Consumers and Producers Session (August 1, 2017), Federation of Egyptian Industries - Cairo, Egypt*
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On August 1st, 2017, CEDARE, in partnership with the Ministry of Environment (MoE) and the Chamber of Chemical Industries at the Federation of Egyptian Industries (FEI) brought together a wide range of plastic bag producers along with top retailers' chains and consumers.



This meeting was the seventh consultation session in a series of meetings, that discussed the challenges and opportunities of altering non-degradable single-use plastic bags, in the framework of the National Initiative for the Reduction of non-degradable single-use plastic bags consumption announced by H.E. Minister of Environment in June 2017. The initiative was implemented in collaboration with the UN Environment and SWITCHMED Programme funded by the European Commission.

- *SwitchMed Demo – Sustainable Public Procurement (SPP) Meeting (September 25, 2017), Intercontinental City Stars - Cairo, Egypt*
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As the key output of the Sustainable Public Procurement (SPP) Project, the SPP Manual was launched by CEDARE & the Ministry of Environment, under the umbrella of UN Environment, on 25 September 2017 through a training workshop for government officials. The training material, which was based on the manual, tackled all issues concerning sustainable and green procurement in light of Tenders and Auctions Law number 89 for year 1998 and its Executive Regulation.



- *SwitchMed Demo – Sustainable Public Procurement Roundtable (September 26, 2017), Marriott Hotel - Cairo, Egypt*
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Under the framework of the SwitchMed demonstration project, and in coordination with the Ministry of Environment and the United Nations Environment Programme (UNEP), CEDARE organized a “Sustainable Public Procurement Roundtable” on the 26th of September 2017 at Marriott Hotel.

The Sustainable Public Procurement (SPP) training was attended by various representatives from the different ministries and governmental entities namely the Ministry of Environment, the Ministry of Finance, the Egyptian Atomic Energy Authority, the Ministry of Trade & Industry, the Ministry of Electricity, Housing & Building National Research Center, the New and Renewable Energy Authority, the National Organization for Potable Water and Sanitary Drainage, the National Research Center & the Association for the Protection of the Environment.

## **7. SWITCHMED CIVIL SOCIETY EMPOWERMENT PROGRAMME FOR SOCIAL ECO-INNOVATION (2017)**

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SwitchMed Civil Society Empowerment Programme is a sub-component within the EU funded Regional SwitchMed Programme that aimed at facilitating the shift toward SCP in the Southern Mediterranean region. It is collaboratively coordinated by the EU, UNIDO, UNEP/MAP, SCP/RAC and the UNEP-DTIE, EEA, and CEDARE as SwitchMed’s local partner and national focal point for the coordination of the activities in Egypt. The Programme promoted innovative approaches and targets early-stage non-profit initiatives, by individuals or groups, who wish to develop their social eco-innovation initiatives, in a way that supports and facilitates sustainable consumption and production ensuring a sound transition into a more sustainable lifestyle.



- *SwitchMed Civil Society Empowerment Programme for Social Eco-Innovation (Training Programme) (March 11-14, 2017), Sekem - Cairo, Egypt*

As part of the EU-funded SwitchMed Civil Society Empowerment Programme, a four-day training workshop was co-organized by CEDARE in partnership with the Regional Activity Centre for Sustainable Consumption & Production (SCP/RAC) in collaboration with the United Nations Environment Programme (UN Environment), United Nations Industrial Development Organization (UNIDO), and the Egyptian Environmental Affairs Agency (EEAA).



“The Programme promoted innovative approaches and targets early-stage non-profit initiatives by individuals or groups represented by members of Civil Society Organizations (CSOs), Non-Governmental Organizations (NGOs), environmental organizations, consumer groups, social movements or community-based initiatives, among others, who wished to develop their social eco-innovation initiatives.

- *Switch-Med Civil Society Support Programme – Networking and Experience Exchange Workshop (December 6-7, 2017), CEDARE - Cairo, Egypt*

As part of the EU-funded SwitchMed Civil Society Empowerment Programme, a four-day training workshop is organized by CEDARE in partnership with the Regional Activity Centre for Sustainable Consumption & Production (SCP/RAC) in collaboration with the United Nations Environment Programme (UN Environment), United Nations Industrial Development Organization (UNIDO), and the Egyptian Environmental Affairs Agency (EEAA).



#### **8. 5<sup>TH</sup> ARAB ROUNDTABLE MEETING ON SUSTAINABLE CONSUMPTION AND PRODUCTION (DECEMBER 18-20, 2017), MARRIOTT HOTEL - CAIRO, EGYPT**

“From Action Plans to Implementation” was the main theme of the 5th Arab Roundtable Meeting on Sustainable Consumption & Production (SCP) held in Cairo throughout the period from December 18th to 25th, 2017. CEDARE co-organized the 5th Arab Roundtable in collaboration with the UN Environment, the League of Arab States (LAS) and the United Nations Economic and Social Commission for Western Asia (ESCWA).

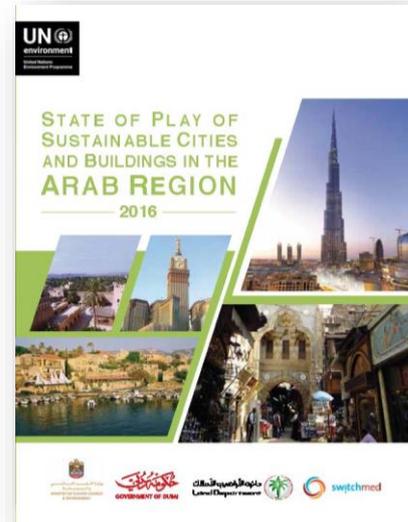


# Sustainable Cities & Communities

## 9. STATE OF PLAY OF SUSTAINABLE CITIES & BUILDINGS IN THE ARAB REGION (2015 –2017)

The “**State of Play of Sustainable Cities and Buildings in the Arab Region**” Report is a 15-month multiparty effort between the CEDARE, UN Environment, & Dubai Land Department with the aim of piloting a ‘baseline’ review for policy-makers on sustainable buildings, including affordable housing, and resource efficient cities in twelve countries in the region (**Algeria, Bahrain, Egypt, Jordan, Lebanon, Morocco, Oman, Palestine, Qatar, Saudi Arabia, Tunisia, & United Arab Emirates**).

Published in English, Arabic and (Executive Summary in French), the report addressed the sustainable building approaches, policies, and lessons learned; identified the case studies promoting efficient use of resources at the city level and integrated resource management; and mapped the institutions and key initiatives supporting city level resource efficiency in the region. The results of this review complement the results of the institutional mapping exercise conducting by the GI-REC in 2013.



- *Sustainable Cities Regional Workshop (January 18-19, 2016), Cairo, Egypt*

CEDARE in cooperation with the United Nations Environment Programme (UN Environment) organized the Sustainable Cities in the Arab Region Workshop that was held on 18-19 January 2016 at the Intercontinental City Stars Hotel, Cairo – Egypt.

The meeting aimed to review the current assessment of the 12 Arab Countries engaged in the study of state of play for the Arab Region, with the overall objective of conducting a regional review that provides a ‘baseline’ for policy making and cooperation on sustainable buildings (including affordable housing), and resource efficient cities in the region. The thirteen countries include: Egypt, Saudi Arabia, Lebanon, Jordan, United Arab Emirates, Qatar, Bahrain, Tunisia, Algeria, Morocco, Oman, and Palestine.



The outcomes of the Arab Regional meeting included the following:

- The first draft of the state of play report submitted by the stakeholders with a specific focus on sustainable, affordable housing and resource efficiency, and identifying opportunities for interventions.
- The outputs of this workshop were captured and included in the final report.

# Sustainable Transportation

## 10. INTEGRATED ECO-ROUTING & FLEET MANAGEMENT SYSTEM (PHAROS) (2014 –2016)

PHAROS was a two-year project led by CEDARE and funded through the EU-Egypt Innovation Fund, through the Research, Development and Innovation Programme (RDI) of the Ministry of Scientific Research of Egypt. Partners from academia in Greece and Netherlands joined the project consortium.



PHAROS main aim was to provide low-cost smart solutions for fleet managers to facilitate efficient route choices and eco-driving that minimizes fuel consumption and carbon emissions. The system will be integrated into an existing fleet management system developed in Egypt. PHAROS also aims at supporting innovation in the Egyptian industry and linking the local industry with leading research institutions.

- *Pharos Project Board Management Meeting (May 16, 2016), CEDARE - Cairo, Egypt*

During 2016, CEDARE organized the 4th PMB/PTB meeting that was held on May 16th, 2016 at CEDARE premises in Cairo, Egypt.



The main objectives of the meeting were:

- Confirming the plan of action for remaining deliverables (full final reporting).
- Confirmation of financial and admin procedures.
- Plan for extension scenario (4 months) and cooperation beyond PHAROS.

- *Pharos Project – Dissemination Seminar and Stakeholders Workshop (May 17, 2016), Intercontinental City Stars - Cairo, Egypt*

On May 17th, 2016, the Center for Environment and Development for the Arab Region and Europe (CEDARE) held its second dissemination seminar about PHAROS project presenting results and including a panel discussion on prospects for the future of Intelligent Transport Systems in Egypt.



## 11. FUEL ECONOMY IN THE ARAB COUNTRIES (GFEI) (2010 – 2016)

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The Global Fuel Economy Initiative (GFEI) is a partnership between the International Energy Agency (IEA), UN Environment, International Transport Forum of the OCED (ITF), International Council on Clean Transportation (ICCT), Institute for Transportation Studies at UC Davis, and the FIA Foundation, which works on securing real improvements in fuel economy (efficiency), and the maximum deployment of existing fuel economy technologies in vehicles across the world. The Initiative promoted these objectives through shared analysis, advocacy, and policy support.



CEDARE is the regional partner for GFEI in the Middle East and West Asia (MEWA) region, providing technical assistance to several countries in the region. CEDARE cooperated in producing Fuel Economy Assessment Report for **Bahrain, Egypt, Morocco and Tunisia**.

- *Sustainable Transport in Egypt Meeting “Progress, Prospects and Partnerships” (December 14, 2016), Marriott Hotel - Cairo, Egypt*

On December 14th, 2016, diverse stakeholders in the fields of transportation, urban planning, environment, and intelligent transportation systems, all gathered for a dissemination event held by Center for Environment and Development for the Arab Region and Europe (CEDARE) to disseminate their projects in sustainable transportation. The results of the Global Fuel Economy Initiative study on fuel economy for light duty vehicles for Egypt was presented, along with an interactive discussion about the various policies suggested in Egypt and presented through a policy brief that was handed out to all participants.



## 12. FUEL QUALITY FOR THE ARAB COUNTRIES – PARTNERSHIP FOR CLEAN FUELS AND VEHICLES (PCFV) (2016)

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The partnership for Clean Fuels and Vehicles (PCFV) aim was to promote cleaner fuels globally, and focused on phasing out Lead and Sulphur. CEDARE is the PCFV regional partner for the Arab Region, advocating cleaner fuels in cooperation with the global network of PCFV partners. CEDARE produced the **Arab Regional Road Map for Enhancing Fuel Quality** in cooperation with the League of Arab States.

- *Roundtable on Phasing out Leaded Gasoline in Iraq and Promoting Vehicle Fuel Efficiency Policies (August 29-30, 2016), Singapore*

A national Iraqi Workshop on Improving fuel quality and a Roadmap for Achieving Euro 5 targets on Fuels and Vehicle Emission Standard was held in Singapore on 29th -30<sup>th</sup> of August 2016, co-organized by UNEP-PCFV, UN-Environment Regional Office for West Asia (UNEP ROWA), Asian Clean Fuels Association (ACFA), and Center for Environment and Development for the Arab Region and Europe (CEDARE).



The workshop objective was to assist key Iraqi officials in developing an action plan to completely phase out lead in petrol and introduce low-sulphur fuels in the country. These objectives included supporting the existing progress/effort in fuel quality improvement, barriers, understanding the needs and the following objectives;

- Develop roadmap to move towards Euro V Fuels and Vehicle Emission standards, with interim targets.
- Raise awareness on complementary cleaner and efficient vehicle policies, such as vehicle emission standards and fuel economy policies and case studies on refinery upgrades

- *League of Arab States Meeting on Sulphur Reduction Roadmap (December 4, 2016), Semiramis Intercontinental - Cairo, Egypt*

On December 4th, 2016, UN Environment Regional Office for West Asia (ROWA) in cooperation with Center for Environment and Development for the Arab Region and Europe (CEDARE) held a networking event for the members of the League of Arab States Joint Committee for Environment and Development in the Arab Region (JCEDAR) in Cairo. The event, was held in a friendly dinner setting, also gathered experts in the field who are interested in promotion of cleaner fuels and improved air quality.



The key items highlighted throughout the event were as follows:

- The Air Quality mandate of UN and activities in the transport sector, in particular to promote low Sulphur-reduction in fuels as well as other pollutants and greenhouse gases.
- A reminder of the PCFV campaign as well as the necessary tandem work in vehicle efficiency and air pollution and climate change (the GFEI campaign and CCAC), with reference to a brochure distributed about PCFV.
- Call for action: Participants were reminded about the need to adopt the LAS Sulphur reduction strategy at a national level, whereas the PCFV network is available for such support through CEDARE and UN Environment.
- A brief handout with a summary of key messages of the League of Arab States strategy report for reduction of Sulphur in fuels (LAS fuel quality roadmap) was distributed.

### **13. E-MOBILITY POLICY DEVELOPMENT FOR EGYPT (DECEMBER 2017 – JANUARY 2018)**

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This study and stakeholder’s consultation activity led to the development of a policy brief for deployment and mainstreaming of Electric Vehicles (EVs) and infrastructure in Egypt for pollution reduction and fuel savings and propose future projects and programmes (i.e. sector initiation). Throughout the background study, extensive stakeholders’ consultations were conducted.

# Publications

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## E-Waste Recycling

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- WEEE Mapping of the Informal Sector Report
- WEEE Dismantling Business Opportunities in the Formal Sector Report
- Extended Producers Responsibility Final Assessment Report
- Sustainable Recycling Industries Incubator Assessment Report
- Entrepreneurship Support & Intervention Programme Report
- Sustainable Recycling Industries Legislations Report
- E-Waste Recycling Formal Sector Need's Assessment Report

## Sustainable Cities and Communities

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- State of Play of Sustainable Cities and Buildings in the Arab Region Report

## Resource Efficiency and Green Economy

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- Study for Plastic Bags Minimization Project
- Sustainable Public Procurement Policy Brief (English/Arabic)
- Sustainable Public Procurement Assessment Report
- Policy Measures for Reducing the use of Non-Biodegradable Bags in Egypt
- Sustainable Public Procurement Manual (Arabic)
- Reduction of Plastic Bags – Integrated Communication strategy