



مؤسسة محمد السادس لحماية البيئة

FONDATION MOHAMMED VI
POUR LA PROTECTION DE L'ENVIRONNEMENT
www.fm6e.org

ANNUAL REPORT 2017





Her Royal Highness Princess Lalla Hasnaa

President of the MohamedVI Foundation for Environmental Protection

SUMMARY

05 HIGHLIGHTS

PRINCELY ACTIVITIES

HER ROYAL HIGHNESS PRINCESS LALLA HASNAA'S PARTICIPATION IN THE COP23

LALLA HASNAA SUSTAINABLE COAST AWARDS – SECOND EDITION 2017

A NEW PARTNERSHIP WITH ISESCO

HER ROYAL HIGHNESS PRINCESS LALLA HASNAA'S PARTICIPATION IN THE WEEC 2017

FOUNDATION'S PARTICIPATION IN THE COP 23

INTERNATIONAL MEETINGS

NATIONAL MEETINGS

14 ENVIRONMENTAL EDUCATION

Eco-SCHOOLS

YOUNG REPORTERS FOR THE ENVIRONMENT

EDUCATIONAL TOOLS

YOUNG JOURNALISTS FOR THE ENVIRONMENT

CAPACITY BUILDING FOR YOUNG COMMUNICATION PROFESSIONALS :

E-LEARNING

NETWORK OF MOROCCAN UNIVERSITIES FOR ENVIRONMENT AND SUSTAINABILITY (GUPES)

20 COASTAL PROTECTION

CLEAN BEACHES

PROTECTED AREAS

MARCHICA LAGOON (NADOR)

INTERCONTINENTAL BIOSPHERE RESERVE OF THE MEDITERRANEAN (RBIM)

OUED EDDAHAB BAY (DAKHLA)





28 AIR CLIMAT

QUALIT' AIR PACT
REGIONAL CLIMATE PLANS
ELECTRICAL MOBILITY
VOLUNTARY CARBON OFFSET
ECO-EPIDEMIOLOGICAL SCHEME IN CASABLANCA

30 SUSTAINABLE TOURISM

BLUE FLAG
GREEN KEY

32 SAFEGUARDING AND DEVELOPING THE MARRAKECH PALM GROVE

34 RESTORATION OF HISTORIC PARKS AND GARDENS PROGRAM

BOUKNADEL EXOTIC GARDENS (SALÉ)

36 SITES AND PORTALS

SITE INSTITUTIONNEL WWW.FM6E.ORG
PORTAILS

37 APPENDICES

BOARD OF DIRECTORS
PARTNERS

HIGHLIGHTS

PRINCELY ACTIVITIES

HER ROYAL HIGHNESS PRINCESS LALLA HASNAA'S PARTICIPATION IN THE COP23



Bonn, Germany
November 6-17, 2017

Her Royal Highness Princess Lalla Hasnaa
Represents His Majesty
The King at Opening
Ceremony of COP 23
High Level Segment

The Foundation participated in COP 23, the 23rd Conference of the Parties to the United Nations Framework Convention on Climate Change, chaired by the Republic of Fiji in Bonn from 6 to 17 of November 2017. In accordance with its membership status as a permanent member of the United Nations Framework Convention on Climate Change (UNFCCC), the Foundation has participated in all meetings since 2009.

The COP 23 was organized for the first time by one of the small island countries, the first victims of global warming although they only contribute very slightly to it. Its main objectives were to negotiate rules for implementing the Paris Agreement to be adopted at COP 24, and collectively raise

the level of ambition of commitments made by States, despite the withdrawal of United States.

In view of its core mission on Education for Sustainable Development, the Mohammed VI Foundation for the Protection of the Environment was mobilized to implement Article 12 of the Paris Agreement on Education and Training, and Article 6 of the UNFCCC, now called the Climate Empowerment Action (ACE).



Bonn, RFA
15 novembre 2017

HRH Princess Lalla Hasnaa
Co-chairs COP23 High-level
Session on Education Day.

Bonn,
November 16, 2017

Address by **Her Royal Highness Princess Lalla Hasnaa** at the High Level Session dedicated to Education Day.



LALLA HASNAA SUSTAINABLE COAST AWARDS - SECOND EDITION 2017

On March 6, 2017 **Her Royal Highness Princess Lalla Hasnaa**, Chair of the Mohammed VI Foundation for Environmental Protection, presided the awards ceremony of the second edition of the **Lalla Hasnaa Sustainable Coast Awards** at the Mohammed VI International Conference Center In Skhirat.

The trophies reward remarkable actions for protecting the coastline. Five awards categories are open to an entire spectrum of actors involved in protecting, preserving, educating or conducting outreach about the coastline, such as civil society associations, coastal communities, private companies, the public sector, students, teachers-researchers, etc... .

Participation in the second **Lalla Hasnaa Sustainable Coast Awards** was markedly increased, with 109 candidacies submitted. This enthusiasm reflects a true commitment to environmental protection by the entire public with whom the Foundation has been working to raise awareness and educate.



Skhirat - March 06, 2017 : **HRH Princess Lalla Hasnaa** Chairs Awarding Ceremony of 2nd 'Lalla Hasnaa Sustainable Coast Trophies'

A NEW PARTNERSHIP WITH ISESCO

In the presence of her President, **Her Royal Highness Princess Lalla Hasnaa**, the Mohammed VI Foundation for Environmental Protection has signed on Wednesday, October 25th, 2017, in Rabat, on the sidelines of the 7th Islamic Conference of Environment Ministers (ICEM), a program of cooperation with ISESCO.

The program implemented for 2018 and 2019 aims at giving a new impetus to the cooperation between the two organizations. ISESCO will accompany the Foundation in the whole of the countries where it intervenes, for the sharing of its expertise in coastal management, air quality, in Education for Sustainable development with, in particular, its programs Eco-schools and Young Reporters for the Environment, for the sharing of its good practices, the development of educational tools, for the formation of the formators and the young journalists for the environment.



Rabat - October 25, 2017 : **HRH Princess Lalla Hasnaa** Chairs in Rabat Opening of 7th Islamic Conference of Environment Ministers.

HER ROYAL HIGHNESS PRINCESS LALLA HASNAA'S PARTICIPATION IN THE WEEC 2017

Her Royal Highness Princess Lalla Hasnaa, President of the Mohammed VI Foundation for Environmental Protection, delivered a speech for the launch of the 9th World Environment Education Congress (WEEC) at the Vancouver Conference Centre, Canada, on September 9, 2017, which is a biennial gathering on the development of education for sustainable development worldwide.

In this speech, she highlighted Morocco's irreversible commitment to the environment, as host of COP22 in Marrakech, and its support to countries most vulnerable to global warming, including Africa and small island countries. «A staunch advocate of coexistence and dialogue since time immemorial, my country - Morocco - remains at the forefront of such an endeavor, which is based on international solidarity» she said.

The Foundation participated in plenary sessions, workshops and side events of this 9th edition of WEEC.



WEEC2017- Vancouver, September 09, 2017: **HRH Princess Lalla Hasnaa** received by the Honorable Judith Guichon, Governor of British Columbia, Queen's Representative.

HIGHLIGHTS

FOUNDATION'S PARTICIPATION IN THE COP 23



THE FOUNDATION'S PARTICIPATION IN SIDE EVENTS IN THE BONN ZONE

During COP23, alongside the side events facilitated by the UNFCCC Secretariat, other side events were planned to share knowledge and experiences, present good practices and consolidate or launch climate action initiatives.

MOROCCO PAVILION - WORLD SUMMIT OF EMPLOYERS

Tuesday, November 14, 2017

The 3rd edition of the World Summit of Employers was organized at the initiative of the CGEM with the support of the employers of Fiji Islands and BizMEF (Major Economies Business Forum on Energy Security and Climate Change). This summit, formally opened by Mr. Salaheddine Mezouar, President of COP 22, seeks to promote private sector engagement in fighting climate change, through the implementation of the Paris Agreement. The private sector signaled its increasing awareness of climate issues and its determination to take action through concrete steps to address these challenges.

Fifty or so employers' organizations that had already gathered during COP 22 in the Marrakech Business Action for Climate (MBA 4 Climate) recalled their need to support states in this global challenge and explained that had begun to adopt climate-friendly measures.

Ms. Myriem Bensalah Chaqroun, who chaired MBA 4 Climate since its inception in Marrakech, passed on the torch to Leonard Chan, board member of the Federation of Trade and Employers of Fiji Islands (FCEF).

BULA ZONE (UN ZONE) - EDUCATION DAY

Thursday, November 16, 2017

«Innovative Approaches to Climate Change Education and Youth Empowerment for Climate Action.»

On the sidelines of COP23's Education Day, the Foundation co-organized a side event labeled «Official Climate Partner» with the Earth Day Network (EDN), which has been organizing World Earth Day since 1970, the World Bank, which helps countries fulfill their commitments to fight climate change, the International Association for the Advancement of Innovative Approaches to Global Challenges (IAAI - Austria), which explores new ways to engage civil society, YOUNGO, a group of young people taking part in COP 23 and supported by the UNFCCC, and Vital Actions for Sustainable Development (Cameroon), an organization to educate both the young and the old about sustainable development and to promote behavioral change.

The Foundation and these organizations shared their teaching approaches and tools, the technological innovations developed and their best practices to raise people's awareness regarding sustainable development, profoundly change their behaviors and fight global warming.

For its part, the Foundation presented its online educational tools related to climate



During the COP23, the Foundation organized a side event on climate change education

change, its Eco-Schools program through the testimonial of the coordinator of the rural Hjar Nhal Eco-School near Tangier. This institution, which is particularly involved from among the 1,636 Eco-Schools enrolled in the Foundation's program, is a laboratory model for sustainable development and an example of the pedagogical approach followed by many schools in the Kingdom.

The Foundation also outlined the workings of its Voluntary Carbon Compensation program, which has electrified 412 rural schools and planted more than 12,000 young palm trees in Marrakech.

STAND IN THE BULA ZONE (UN ZONE)

The Foundation had a 4 m² stand in the blue zone, made available by the UNFCCC in its capacity as an Observer Member. It was thus able to make itself known to visitors of this important, restricted access area.

SIDE EVENT ON CLIMATE CHANGE EDUCATION – UNESCO PAVILION - HOW FAR HAVE WE COME?

The Mohammed VI Foundation for the Protection of the Environment participated on November 16, 2017 in the Bonn Zone, in a side event organized by UNESCO for the Global Action Network (GAP) network partners, entitled: «Climate change education - how far have we come?»

Various speakers including representatives of the UNESCO Center for Global Citizenship Education (GCE), York University of Canada, a supervisor of a German school member of UNESCO's Associated School Network (ASPnet) and young German YREs presented their approaches, methodologies and best practice cases to enable the audience to understand how climate change education can influence behaviors and to reflect on how we can act together for climate action in reference to the title of the UNFCCC Education Day - COP23: «Global Partnerships to Combat Climate Change through Education.»

Wednesday 8 November : «Roadmap for sustainable mobility»

The Foundation presented the projects for the introduction of electric mobility and the regional climate plan launched in the city of Marrakech.

HIGHLIGHTS

INTERNATIONAL MEETINGS



YRE INTERNATIONAL COORDINATORS' MEETING

February 16-18, 2017
Guimarães, Portugal

Nearly 30 countries participated in the meeting, the largest international coordinators' meeting since the launch of the YRE program. New countries joined FEE's YRE network: Ireland, Brazil, Mongolia, Ghana, North Korea.

During the meeting, the representative of the Portuguese National Commission of UNESCO gave a presentation explaining Sustainable Development Goals and their link with the YRE program.



3RD EDITION OF THE UNESCO GLOBAL CITIZENSHIP WEEK AND THE UNESCO GLOBAL ACTION PROGRAM REVIEW FORUM

March 6-10, 2017
Ottawa, Canada.

More than 250 participants from over 90 countries gathered in Ottawa for the UNESCO Global Action Program Review on ESD: Implementation and Innovation. The event was held as part of UNESCO's Week for Peace and Sustainable Development: The Role of Education (6-10 March 2017). The Review Forum was an opportunity to take stock of the progress made since the launch of the program.

The Foundation intervened on Tuesday, March 7, 2017 in a side event titled: «No Time to lose! How can we accelerate Climate Change Solution in the classroom?» organized by the United Nations Alliance for the Empowerment of Climate Action (ACE) alongside representatives of the UNFCCC, UNESCO Canada Chair and UNECE India.

GREEN KEY ANNUAL MEETING

March 27 - 29, 2017
Athens, Greece

The Green Key Label National Operators' International Meeting was held from 27 to 29 March 2017 in Athens, Greece. 31 national operators from countries that have deployed the label attended. They discussed the program and its progress, its expansion to other types of institutions, and its management tools (graphic charter, website, communication).



OCEAN WEEK

March 30 - April 4, 2017
Monaco

The Foundation participated in a week of exchanges and mobilization for the preservation of oceans. 32 events (press conferences, workshops, conferences, exhibitions ...) were held in emblematic venues in the Principality (Oceanographic Museum, Yacht Club of Monaco).



THE ROLE OF CIVIL SOCIETY IN RESPONSIBLE AND SUSTAINABLE TOURISM

July 25 - 27, 2017
Amman, Jordan.

ISESCO and the Mohammed VI Foundation for the Protection of the Environment organized a workshop in Amman on the role of civil society in responsible and sustainable tourism.

Representatives of Arab-Islamic ISESCO member states (Palestine, Lebanon, Morocco, Tunisia, Egypt, Saudi Arabia, Kuwait, Jordan), national and international experts in tourism and the environment from both organizations and civil society were invited to this event.

They reflected on sustainable tourism, the important role played by civil society, especially in raising awareness among stakeholders (accommodation, guides, tourism carriers, tourists) to mitigate the impact of their daily practices on the environment.

The Foundation presented its experience pertaining to: Green Key, Blue Flag, Voluntary Carbon offset, Clean Beaches, Eco-Schools and Young Reporters for the Environment.



EDUCATIONAL TOOLS AT THE SERVICE OF THE ENVIRONMENT

October 10 - 11, 2017
Dakar, Senegal.

The Mohammed VI Foundation for the Protection of the Environment, together with ISESCO and the Senegalese National Commission for UNESCO and ISESCO, led a South-South Regional Seminar on Educational Tools for environmental Awareness-raising and Education. This was an opportunity for the Foundation to share its expertise, its commitments and its network of international partners such as ISESCO, UNEP and UNESCO.

MEETING OF INTERNATIONAL ECO-SCHOOLS COORDINATORS

November 18-19, 2017
Paris - France

The international meeting of national coordinators was held in Paris on the theme of «Positive actions for the future of education.» 60 representatives of the 76 countries participating in the FEE's Eco-Schools program attended.

The FEE officially launched the Eco-Schools Africa network, consisting of the following countries: Zanzibar, Madagascar, Tanzania, Uganda, Comoros, Morocco, Kenya, South Africa, Malawi, Ghana, Mauritius and Indian Ocean Commission. The objective of the network is to produce a coordinated approach, to exchange knowledge and, in 2018, to launch a mentoring system by Eco-Schools programs established in the countries most advanced in the program, under the theme of natural disasters and the impact of climate change.



ARAB-AFRICAN REGIONAL MEETING ON BIOSPHERE RESERVES AND WATER

October 17-19, 2017
Agadir, Morocco

In partnership with UNESCO, ISESCO and HCEFLCD, the Foundation participated in a meeting under the theme «Biosphere Reserves as a Climate Change Observatory and Sustainable Development Laboratory in the African Arab Region.» 40 participants from 20 countries from Arab and African regions met in the Souss region.



Under the High Patronage of
Mr Emmanuel MACRON
President of the French Republic

WORLD EFFICIENCY

December 11 - 13, 2017
Paris, France

A delegation composed of the Foundation, the DGCL and the Wilaya of Casablanca participated in the World Efficiency Conference, the first international meeting on the resource and carbon-efficient economy. This event aimed to generate a powerful platform bringing together innovative solution providers and market decision-makers for the deployment of resource-efficient innovations and technologies.

HIGHLIGHTS

NATIONAL MEETINGS



MEETING ON SUSTAINABLE MOBILITY: TOWARDS NEW MODES OF URBAN MOBILITY IN MOROCCO

May 17, 2017
Marrakech, Morocco

In partnership with UNEP and national and local partners, the Foundation presented the highlights of the electric mobility project in Marrakech, as well as various other air quality projects carried out in the Marrakech Region.

CLIMATE CHANGE

September 11-13, 2017
Agadir, Morocco

The Foundation presented the Qualit'Air Pact in Agadir, which is the result of an active collaboration between the Foundation and CGEM aimed at mobilizing for the climate and supporting Moroccan companies in their fight against the effects of climate change.

LES PROGRAMMES

14 ENVIRONMENTAL EDUCATION

Eco-Schools

Young Reporters for the Environment

Educational Tools

Capacity Building for Young Communication Professionals : E-Learning

Network of Moroccan Universities for Environment
and Sustainability (GUPES)

20 COASTAL PROTECTION

Clean Beaches

Protected Areas

Marchica Lagoon (Nador)

Intercontinental Biosphere Reserve of the Mediterranean (RBIM)

Oued Eddahab Bay (Dakhla)

28 AIR CLIMAT

30 SUSTAINABLE TOURISM

Blue Flag

Green Key

32 SAFEGUARDING AND DEVELOPING THE MARRAKECH PALM GROVE

34 RESTORATION OF HISTORIC PARKS AND GARDENS PROGRAM

Bouknadel Exotic Gardens (Salé)

36 SITES AND PORTALS

Institutional site "www.fm6e.org"

Portals

ENVIRONMENTAL EDUCATION

ECO-SCHOOLS



At the eco-school Abdelmoumen of Rabat, children created a game of mathematics playful using used plugs.

1636

SCHOOLS PARTICIPATED IN THE 2016-2017 SEASON.

262

ECO-SCHOOLS OUT OF A TOTAL OF 283 RENEWED THEIR LABEL.

9

SCHOOLS WHICH HAVE RECEIVED THE GREEN FLAG LABEL

The number of schools joining this program, which was in its twelfth season in 2017, continues to grow. 1,636 schools participated in the 2016-2017 season, against 1,375 in the 2015-2016 season.

The success of the progressive approach, which was introduced in the 2013-2014 season, continues unabated. 164 schools have applied for the Green Flag or one of its intermediate stages for the 2016-2017 season. Of those, 67 were awarded the label against 62 last year. 51 received the bronze certificate and 45 the silver certificate.

262 Eco-Schools out of a total of 283 renewed their label.

RESULTS OF THE 2016-2017 EDITION

The regional committees assessed all 164 Eco-Schools projects through field visits. The Foundation developed evaluation sheets to standardize these evaluations, which provided a consistent basis for the national committee to judge the candidates.

The National Committee held its project evaluation meetings for the 2016-2017 Green Flag Schools at the Foundation's headquarters on June 7, 2017. This evaluation work identified best practices to be disseminated to other schools as an example.

Several cases of good practice have been identified by the committee. For example, the eco-schoolchildren collaborated with the parents' association of each of their schools to organize awareness-raising sessions to teach mothers to reduce their water and

electricity consumption. With the school's electricity and water bill in hand, students demonstrated how, thanks to simple gestures and good environmental management, they had reduced the amount paid at the end of each month by their school.

In the Abdelmoumen Eco-Schools in Rabat, students aged 5 to 6 created a game to reuse bottle caps. This game allows them to learn about numbers and math. In Ouarzazate, students from the Eco-School Naciria located near the Ouarzazate solar power plant developed a solar oven.

Several other themes were addressed by the Eco-schoolchildren: water and energy the management, waste recovery, biodiversity, food, climate change and solidarity.

Their remarkable achievements have been shared with other Eco-Schools on the Eco-Schools website, alongside the achievements of other schools.



Students raising mothers to reduce their energy consumption (bill in support).

THE BMCE BANK FOUNDATION FOR EDUCATION AND THE ENVIRONMENT

An agreement was signed with the BMCE BANK Foundation for Education and the Environment as part of the three-year Eco-Schools program (2017-2020).

Its objective for the year 2017 is to foster synergy between the Eco-Schools program and the BMCE BANK Foundation for Education and Environment's «Medrasat.com» program for 9 schools which have received the Green flag label of the «Medrasat.com» network, as well as to raise awareness and develop educational tools.

PARTNERSHIP AGREEMENT WITH THE UNFCCC

At COP23, and on the occasion of Education Day and its high-level session co-chaired by **Her Royal Highness Princess Lalla Hasnaa**, entitled «Global Partnerships to Fight Climate Change through Education», the Mohammed VI Foundation for the Protection of the Environment and the UNFCCC signed a memorandum of understanding on November 16, 2017 in Bonn, Germany.

This partnership deepens the relationship between the Foundation and the UNFCCC Secretariat, which seeks to undertake concrete action to cooperate, educate, train and raise public awareness about climate change and prompt change in its behavior.

This is climate empowerment, a topic on which the UNFCCC has developed a Guidebook which the Foundation will promote and disseminate in its area of influence.

PARTNERSHIP AGREEMENT WITH THE GOI PEACE FOUNDATION

Following a 1st meeting held with Mr. Hiroo Saionji, President of the GOI PEACE Foundation during the participation of **Her Royal Highness Princess Lalla Hasnaa** in November 2014 in Nagoya (Japan), in her capacity as Guest of Honor at the Global Conference on Education for Sustainable Development, held under the auspices of UNESCO, the opportunity to consider ways for the two Foundations to collaborate was discussed, leading to the signing of a MoU on 29 November 2017.

This MoU aims to establish a synergy between GOI PEACE Foundation's Earth Kids program and the Foundation's Eco-Schools program, through the identification and sharing of good practices and educational environmental education materials developed by the Foundation and made available to eco-schools.

ENVIRONMENTAL EDUCATION

YOUNG REPORTERS FOR THE ENVIRONMENT



NATIONAL COMPETITION

Six written reports from the Young Reporters for the Environment (YRE) and six photo reports received awards from the jury of the 15th edition of the competition, which met with the national committee of the program to deliberate at the Foundation's headquarters on 7 and 12 April 2017. They examined 650 photographs from 150 high schools and 170 reports produced by 602 students from 140 middle and high schools. Twelve academies participated in this edition, mobilizing 145 supervisors for photographic reports and 107 for written reports. This year, the jury had proposed the theme: «sustainable tourism: everyone's responsibility», chosen on the occasion of the United Nations International Year of Sustainable Tourism for Development.

The winners and their supervisors received their awards as well as digital tablets distributed at provincial and regional ceremonies throughout the Kingdom.

INTERNATIONAL COMPETITION

Two Moroccan reports received awards from the international jury of the Young Reporters for the Environment contest:

- The written report from Tinghir High School
- The photographic report of Al Hoceima High School.

The winners of the international competition were announced, as is the custom, on the occasion of World Environment Day on June 5th, 2017.

Moroccan high school students competed with those from 35 countries. The International Youth Reporters for the Environment jury is comprised of representatives from UNEP, UNESCO, the International Institute for Industrial and Environmental Economics (IIIEE), the Wrigley Foundation, an international journalist, an award winner of the program (1996) and FEE.

The winners of the international competition will receive a diploma and their reports will be published in the Huffington Post kids.

These are the 25th and 26th international awards won by the JRE program in Morocco since 2002, when it was first introduced in the Kingdom.

TRAINING AND EDUCATION WORKSHOPS FOR SUSTAINABLE DEVELOPMENT

Between December 2016 and January 2017, regular training workshops were held in the regions. They made it possible to exchange experiences, good practices, and provide guidance to new schools.

DETAILED RESULTS

Oulja, Sale potters: how to preserve this heritage?

**15-18-year-olds - Proximity award
Hassan II High school (Sale)
Rabat Sale Kenitra Academy**

In Sale, pottery has been made for a very long time. The artisanal potters' complex is very popular. However, it has suffered from a drop in attendance, a trend studied by the Hassan II High School students. Solving environmental problems should help preserve this activity. Traditional kilns have been replaced by modern ovens that emit less toxic black dust and smoke. Pottery makers are also using new techniques that allow their products to comply with new environmental standards, including those related to lead in inks. These ceramics are safe for cooking.

Broken wings : I will not be forgotten 15-18-year-olds - Awareness-raising award Khadija Al Mouaminine High School (Sidi Bernoussi), Casablanca-Settat Academy

The young reporters of the Khadija Al Mouaminine high school in Casablanca put themselves in the shoes of a stork as it searches for a healthy environment, far away from wild dumps. During this flight, they discovered the Zénata eco-city, which from the outset made a commitment to sustainable and environmentally friendly management.

The mythical Hafa Café: a vanishing memory

**11-14-year-olds - Contrast award
El Hassan Middle school (Tanger)
Tanger Tetouan Hoceima Academy**

The Hafa café in Tangier has been visited by many famous artists: Paul Bowles, Mohamed Choukri, Jean Genet, the Beatles, the Rolling Stones and many others. This legendary café has been steadily deteriorating. The Young Reporters for the Environment from El Hassan Middle School in Tangier suggested a recovery plan for the café by including it in tourist circuits so as to leverage this heritage which is recognized beyond Morocco's borders.

WINNERS 2017

RESULTS OF THE NATIONAL PHOTO COMPETITION



Tazota

El Massab Middle school (**El Jadida**)
Casablanca Settat Academy

15-18-year-olds - Local heritage award



The old tree

Omar Ibn Aziz Middle school (**Ifrane**)
Fès Meknès Academy

15-18-year-olds- Resistance award



One thousand and one fragrances

Youssef Ibn Tachafine High School (**Agadir**)
Souss Massa Academy

15-18 -year-olds – Originality award



“Ni mi Nifri” a beautiful source of inspiration

Moulay Ismail Middle school (**Azilal**)
Bni Mellal Khénifra Academy

15-18 -year-olds – Year’s Theme award



Composition

Youssef Ibn Tachafine High School (**Agadir**)
Souss Massa Academy

15-18 -year-olds - Originality award



Paths of existence and nature

Abou Yaacoub Badissi High School (**Hoceima**)
Tanger Tétouan Hoceima Academy

19-21-year-olds – Jury award and international competition Honorable mention

The roses of the Dades Valley: a candle goes out to illuminate the heights of the Dades

19-21-year-olds - National committee award, Abdelkarim El Khattabi High School (Tinghir) Daraa Tafilalet Academy

The Dades river flows at the foot of the Atlas Mountains. It is a hotspot for the growing of roses which, since time immemorial, have been used for the production of rose water. The YREs focused their attention on the overexploitation of the Valley and the pollution of the Dades river. Their work highlighted the need to raise-awareness among the local population, working through local cooperatives whose main activity is the traditional distillation of rose petals for essential oil and cosmetics. This project received an Honorable Mention in the international competition

The Doukkali eagle: a national heritage

15-18-year-olds - Intra-generational award Ihssane 3 High School (El Jadida) Casablanca Settat Academy

In the Doukkalas, the training of hawks for hunting is a tradition of which the population is very proud. The YREs interviewed the falconers who explained to them the importance of their falcon training know-how and the need to preserve it by passing it on to younger generations.

Re-using olive pomace

19-21-year-olds - Innovation Award Cherif Idrissi High School (Oujda) Oriental Academy

The Young Reporters for the Environment of the Cherif Idrissi high school in Oujda focused their report on the reuse of olive pomace waste resulting from the crushing of olives. The pomace can be used to produce fuel, a source of energy. High school students have been endeavoring to inform local stakeholders about the use of this fuel to reduce the ecological footprint of the region and valorize its waste.

ENVIRONMENTAL EDUCATION

EDUCATIONAL TOOLS



Rotary module on renewable energies



Digital platform on climate change

AN ENERGY, CLIMATE AIR-QUALITY VIRTUAL PLATFORM

A new theme, climate change, was added to the virtual air and climate platform in 2017. It follows up on the important commitment made by the Foundation at the COP 22 in Marrakech, and subsequently to the COP 23 in Bonn.

This educational tool enables the transfer of scientific and technical knowledge and the promotion of environmental protection among citizens, young people, adolescents and adults.

THE ECO-SCHOOLS PROGRAM VIDEO GUIDE

The video guide of the Eco-Schools program has been updated and now includes the theme of climate change. It has been fully re-recorded with a voice-overs by young people.

THEME-BASED POSTERS FOR THE ECO-SCHOOLS PROGRAM

Posters illustrating the seven themes of the Eco-Schools program have been printed for Eco-Schools. They inform about environmental impacts and teach eco-gestures to be adopted for each theme: waste, water, energy, biodiversity, climate change, healthy food and solidarity.

EDUCATIONAL PATH IN THE OUED EDDAHAB BAY

The educational path for the Oued Eddahab Bay produced in 2016, was delivered and set up in the city of Dakhla.

Its modules communicate and raise awareness about the importance of biodiversity in the Oued Eddahab Bay, the region's fossil water table and the scarcity of fresh water, waste sorting and composting, and renewable energies.

CAPACITY BUILDING FOR YOUNG COMMUNICATION PROFESSIONALS : E-LEARNING



3

EDITIONS (2012, 2014 AND 2016)

68

JOURNALISTS REGISTERED IN THE MOST RECENT SESSION

11

COUNTRIES REPRESENTED: MOROCCO, ALGERIA, TUNISIA, MAURITANIA, BENIN GUINEA, SENEGAL AND BURKINA FASO, AS WELL AS THREE OTHER COUNTRIES PARTICIPATING FOR THE FIRST TIME, NAMELY, CÔTE D'IVOIRE, CONGO AND CAMEROON.

This program was initiated in 2011 thanks to a partnership with the Center for Mediterranean Cooperation (IUCN-Med), ISESCO and UNEP. It aims to encourage young journalists in Africa to become aware of environmental issues enabling them to better cover the news in their media. To this end, an electronic platform for distance learning has been dedicated to them.

Thematic training modules focus on:

- Climate change;
- Fighting desertification;
- Waste Management;
- Use of resources: biodiversity, water, renewable energies...
- Ecosystems management: coastline, forests, wetlands...

In addition to training, this platform allows journalists to share their experiences, exchange their know-how and develop their network. It helps to build and mobilize a responsive community for sustainable development in the African region.

This distance learning program has now had 3 editions with more than 68 journalists from 11 countries in North and West Africa.

A workshop was organized in 2017 in collaboration with ISESCO to present the results of the 3rd edition of the capacity building program for communication professionals.

NETWORK OF MOROCCAN UNIVERSITIES FOR ENVIRONMENT AND SUSTAINABILITY (GUPES)



Accompanying
guide for Green
Universities in
Morocco

The Global Universities Partnership on Environment for Sustainability, better known by its acronym GUPES, is a network launched by UNEP-EETU (United Nations Environment Program-Environmental Education and Training Unit) in 2010. It promotes the integration of the Environment in teaching, research, community involvement and university management.

In February 2013, the Foundation signed a Memorandum of Understanding (MoU) to join this network.

Five universities, fifteen faculties and three specialized schools from five regions of Morocco joined the GUPES:

- Cadi Ayad University of Marrakech, with 14 faculties involved.
- Hassan II University of Casablanca
- Rabat International University
- The Faculty of Science and Technology of Mohammedia
- The National School of Architecture of Rabat
- The National School of Mining Industry and the Posts and Telecommunications School of Rabat.

- Sidi Mohammed Ben Abdallah University of Fez
- Ibn Zohr University of Agadir.

The COP 22 in November 2016 helped generate real momentum. At a side event co-organized by the Foundation and UNEP on the importance of green university networks for a sustainable future, a decision was made to hold a workshop in order to formalize the creation of the national network in 2017 and to draft a French version of the Green Universities Toolkit.

As of January 2017, a Small-Scale Funding Agreement (SSFA) was signed with UNEP to provide universities with technical and financial support through the Foundation.

The «Greening Universities Toolkit 2.0» guide was translated from English to French. This work provided an opportunity to identify 301 good practices in Moroccan institutions, which will be incorporated into the Toolkit.

Finally, the date of the national workshop launching the national network of green universities has been scheduled for 2018.

5

UNIVERSITIES

15

FACULTIES

3

SPECIALIZED SCHOOLS

COASTAL PROTECTION

CLEAN BEACHES



98

PLAGES ENGAGÉES DANS
LE PROGRAMME PLAGES
PROPRES

120

NEW TECHNICAL BEACH
MANAGERS

With the impetus of the «Clean Beaches» Program initiated by the Mohammed VI Foundation for the Protection of the Environment, the Communes, Authorities involved in coastal management as well as economic partners are increasingly mobilizing, year after year, for the Kingdom's beaches.

This program of the Foundation aims to bring beaches up to international standards, in particular those which carry the «Blue Flag», an environmental eco-label with international influence.

GROWING MOBILIZATION

In 2017, 98 beaches in 61 coastal communes, supported by 25 public and private economic operators, were involved in the Clean Beaches Program. They offered summer holidaymakers a good quality seaside experience. These partners have increasingly committed beaches to sustainable development.

In 2017, the program welcomed a new economic partner: the North Africa Tobacco Company, which supports the beach of Oued Al Marsa.

Seven new sites have been added to the beaches in compliance with the program:

- Taghra (Commune of Tzigane, province of Chefchaouen);
- Cabo Negro (Martil commune, Mdiq-Fnideq prefecture);
- Azla (Azla Commune, Tetouan Province);
- Kasaba 1 (Rose Marie) and Kasaba 2 (Jouhara) (Skhirate commune, Skhirate-Temara prefecture);
- Tamaris 1 (Dar Bouazza commune, Nouaceur province);
- Casamar (Tarfaya commune, Tarfaya province).

RENEWAL OF THE «CLEAN BEACHES» PARTNERSHIP AGREEMENTS

The partnership agreements relating to the beaches of Sidi Moussa Aglou, sponsored by the ONEE Electricity branch, Oued Laou, sponsored by Lafarge Tétouan, Amssa sponsored by Amendis Tétouan, Mirleft, sponsored by Akwa Groupe and Ba Kacem sponsored by Amendis Tanger, expired in 2016 and were all renewed in 2017.

COASTAL PROTECTION



ACTIONS UNDERTAKEN IN 2017

During the 2017 season, the Clean Beaches and Blue Flag programs consolidated their achievements and continued their efforts to continuously improve the environmental condition of listed beaches.

The following actions were carried out during the 2017 season:

Strengthening sustainable beach management mechanisms

Following the three-year partnership agreement (2016-2018) signed in 2016 between the Foundation and the DGCL to strengthen the capacities of coastal local authorities and enable them to better manage beaches, the manual for sustainable beach management made available to them is bearing fruit. It facilitates the work of local actors in the field by providing a method for preparing the summer season divided into four main chapters:

- Planning
- Execution
- Follow-up
- Assessment and corrective actions

The legal and institutional chapter helps clarify responsibilities, frame partnerships and provide legal solutions for summer vacationers.

Today, this manual is an essential tool for local managers in charge of beach management in coastal authorities and communes.

Strengthening local stakeholders' capacities in sustainable beach management

In April and May 2017, 120 new technical beach managers from 25 wilayas and prefectures and over 55 coastal communes were trained in beach management. This is the second year of training on the guide, following 2016.

The three three-day sessions were held in three different cities:

- from 26 to 28 April 2016 in Agadir,
- from 17 to 19 May 2016 in Tangier;
- and from 31 May to 2 June 2016 in Casablanca.

This cycle has increased the number of technical managers trained to use the technical beach management tools developed by the Foundation.

This cycle is also an opportunity to improve the guide by comparing the Foundation's approach, based on project cycles and continuous improvement, with the needs of local managers. This ongoing improvement ensures that the manual is consistent with the needs of stakeholders.

The objective of capacity building is on the one hand to facilitate the field work of actors to raise the quality of beaches, but also to support their investments and generate economic and social benefits.



Appointment of a select local committee responsible for monitoring and follow-up of labelled beaches

The preservation of the «Blue Flag» label throughout the summer period requires strict compliance with the criteria of the label. The wilayas and prefectures concerned have therefore set up select local committees responsible for the daily monitoring and oversight of the labelled beaches. These committees prepare monthly reports for submission to the Foundation and the DGCL.

Development of a «Blue Flag» labelling guide for ports and marinas

To assist the managers of Moroccan marinas and marinas in complying with the criteria of the «Blue Flag» label, a technical guide for labelling has been developed. It is based on the experience of Spanish marinas flying the «Blue Flag». The publication of this guide follows a study tour organized in 2016 by the Foundation in collaboration with the Spanish Association ADEAC-FEE Spain. Three Moroccan marinas managers discovered and studied seven installations in the south of Spain.

Strengthening the public information mechanism on bathing water quality

The National Laboratory for the Environment of the Secretariat of State for Sustainable Development has set up a website (<https://labo.environnement.gov.ma>) and a smartphone application that provides the public interested in bathing water quality with information. The information covers the

beaches included in the national bathing water quality monitoring program.

A partner section has been created so that all local beach authorities (provinces and communes) can quickly download their own updated bulletins. They were invited to post them in the beaches under their responsibility.

Consolidating the compendium of good practices in Education for sustainable development on beaches

The compendium of good practices in awareness-raising and education for sustainable development developed by the Foundation in 2016 was enriched by new activities implemented during the summer 2016 and 2017 seasons.

The compendium offers, in the form of practical fact sheets, a selection of the best environmental awareness and education activities conducted in Morocco and around the world. It is intended for municipalities, local associations and economic partners wishing to improve their educational and awareness-raising activities and to make environmental conservation behavior natural and self-evident.

«CLEAN BEACHES» INVENTORY 2017

The various working sessions of the national committee and unannounced visits made during the 2017 campaign led to the following observations:

Bathing Water Quality Monitoring

Bathing water quality at 162 beaches was



monitored according to standards 03-7-200 and 03-7-199.

421 stations out of 430, i.e. 97.90% of the water tested is of A or B quality, complying with bathing standards 03 7 200.

The bathing waters of nine stations are not in compliance, i.e. 2.1% of the stations monitored. These are the beaches of Jbila, Miami and Oued Merzeg.

Profiling of beaches

The NM 03 7 199 standard requires beach profiles to be produced, including a description of bathing waters and the factors that may influence and threaten their quality. These profiles serve both as a source of information for citizens and as a management tool for the authorities responsible for sanitation. The bathing profiles established highlight the actions taken by companies and beach managers in terms of sanitation.

By the end of 2017, 104 beach profiles had been completed.

Informing the public:

Bathing water quality (BWQ) results must be posted every 15 days on all beaches labelled «Blue Flag.» However, despite the provision by the Secretariat of State for Sustainable Development of a website dedicated to bathing water quality (<https://labo.environnement.gov.ma>), on which beach managers authorized by the Wilayas, prefectures and communes can download the analysis results bulletins every 15 days, more than 70% of beaches have not posted their results.

COASTAL PROTECTION

Lifeguards ensure the safety of swimmers in beaches involved in the program «Clean Beaches»

107

CIVIL PROTECTION STATIONS

204

CIVIL PROTECTION PROFESSIONALS

2188

RESCUE SWIMMERS RECRUITED BY THE DIRECTORATE OF CIVIL PROTECTION

1963

RESCUE SWIMMERS TRAINED BY ANAPEC

31

AMBULANCES MOBILIZED ON THE BEACHES (17 FROM CIVIL PROTECTION, 13 FROM THE COMMUNE AND ONE FROM THE MINISTRY OF HEALTH)

1512

LIFEBUOYS

370

LIFE JACKETS

1082

PAIRS OF FINS

15

LOUDSPEAKERS



Safety of beach-goers:

Buoyage

The buoyage program carried out by the Ports and Maritime Public Domain Department of the Ministry of Equipment, Transport, Logistics and Water made it possible to equip 76 beaches in 2017, i.e. 3 more beaches than in 2016.

Note: selection of these beaches is made in consultation with the members of the national «Clean Beaches» committee

Rescue and first-aid:

This year, the Directorate General of Civil Protection mobilized significant human and material resources:

- 107 civil protection stations on the beaches: 60 built, 24 removable, 19 tents, 2 prefabricated and 2 containers
- 204 civil protection professionals mobilized on the beaches
- 2,188 rescue swimmers recruited by the Directorate of Civil Protection
- 1963 rescue swimmers trained by ANAPEC in communication and stress management, including 132 professional lifeguards
- 31 ambulances mobilized on the beaches (17 from civil protection, 13 from the commune and one from the Ministry of Health)
- 1,512 lifebuoys
- 370 life jackets
- 1,082 pairs of fins
- 119 boards
- 15 loudspeakers

- 320 watchtowers
- 73 binoculars
- 288 parasols
- 17 Jet Skis
- 69 Zodiacs
- 6 quads

However, some aspects still need improvement:

- Enhancement of rescue equipment (jet skis, zodiacs) remains limited to certain beaches.
- The number of seasonal lifeguard swimmers is insufficient on beaches that have become very popular.
- Seasonal rescue swimmers engage in activities other than lifeguarding, such as parasol rental.

Planning and management:

Development of Beach Use Plans and Management (PUGP)

The Ports and Maritime Public Domain Department continues to support the «Clean Beaches» program by drawing up Beach Use and Management Plans (PUGP). This tool makes it possible to develop beaches while preserving their environment.

At the end of 2017, 42 beaches had a PUGP and 28 were in progress, for a total of 70 PUGP (table below).

Let us recall that since 2015, and in accordance with the new «Clean Beaches» partnership agreement, the Beach Use and Management Plan (PUGP) is mandatory for every beach.



Beach management

During this year, several weak points were identified:

- Too many temporary occupation permits have resulted in pervasive rental activity for parasols, chairs, tables, pedal boats, etc. These excesses were observed in 75% of monitoring visits
- Many vendors or other informal activities are present on 90% of the beaches controlled.
- Jet-ski activities do not respect zoning regulations in 23% of beaches.
- The presence of animals on the sand was observed in 62% of the beaches.

c) Maintenance of beaches

Maintenance and cleaning of sanitary blocks are deficient in 33% of the beaches.

The cleanliness service is inadequate for beach use, and night use of beaches has increased.

d) Equipment: Sanitary blocks, first aid centers and civil protection centers

In 2017, the beaches of the «Clean Beaches» program are developed and equipped as follows:

- 66% of beaches have showers, 30% of which are reserved for people with special needs;
- 85% of beaches have toilets, 53% of which are reserved for people with special needs;
- 52% of the beaches have a first aid center;
- 87% of beaches have an accessibility point with gratings.

Medical facilities

51 beaches have local first aid centers. 70% of them are managed by more than 385 medical professionals (doctors and nurses). The remaining centers are managed either by members of the Moroccan Red Crescent or by private medical centers set up by economic partners.

Entertainment and environmental education:

This year, local NGOs were increasingly mobilized. They conducted numerous direct and indirect awareness-raising actions for the benefit of children.

- For example:
- Awareness-raising actions to safeguard the coast through educational and leisure activities.
- Provision of facilities for people with reduced mobility on some beaches to enable them to take full advantage of the services and leisure activities available.
- Entertainment and leisure activities for children in difficult situations.
- Activities organized in environmental education centers.
- The visits conducted underscored the implementation of a significant system of tools, workshops and platforms for education, awareness and activities, by various partners of the Clean Beaches program. More than 60 local associations have carried out awareness-raising and education actions on sustainable development on clean beaches.

Participation of the Moroccan National Scout Federation:

- The Moroccan National Scout Federation has, for the 15th consecutive year, supported the «Clean Beaches» Program with environmental awareness and education actions. It intervened on six beaches: Saïdia city, El Haouzia, Sidi Moussa Aglou, Oualidia, Agadir and Ain Diab Extension

MONITORING AND COORDINATION

- Coordination meetings with local committees were held, which made it possible to provide further guidance on beach action plans.
- Site visits by members of the national «Clean Beaches» committee were carried out during the summer. They were an opportunity to ensure that planned actions were progressing properly in the field and to take stock of the situation so as to identify areas for improvement.
- Despite the sustained efforts of various partners, particularly in terms of cleanliness, equipment and maintenance, their work has been made difficult by the very large number of visitors to the beaches. The Safi city beach reached a record of attendance with more than 20 000 visitors per day.
- Managers also encountered the following problems:
- Pervasive parasols, chairs and table rental activity.
- There are many vendors on the beaches.
- The Communes, the Ministry of Equipment

COASTAL PROTECTION



66%

OF BEACHES HAVE SHOWERS, 30% OF WHICH ARE RESERVED FOR PEOPLE WITH SPECIAL NEEDS;

85%

OF BEACHES HAVE TOILETS, 53% OF WHICH ARE RESERVED FOR PEOPLE WITH SPECIAL NEEDS;

52%

OF THE BEACHES HAVE A FIRST AID CENTER;

87%

OF BEACHES HAVE AN ACCESSIBILITY POINT WITH GRATINGS.

and the Wilayas have granted a significant number of occupation authorizations (concessions)

- Jet-skiing, quads and animals were present on some beaches despite local regulations prohibiting them.

RECOMMENDATIONS

Following the discussions held during the coordination meeting, the following recommendations were made:

- Raise awareness among local communities to display updated bathing water quality results on beaches. It should be recalled that the QEB results can be downloaded from the Secretariat of State for the Environment's website.
- Increase the number of lifeguards and improve lifesaving equipment on some very busy beaches.
- Take into account the capacity of the beaches when granting concessions.
- Better monitor jet ski activities on swimming beaches.
- Raise public awareness throughout the year, with a sustained effort on the beaches during the summer period.
- Enhance the ANAPEC training of lifeguards by addressing other behavioral aspects.
- Revitalize coordination between the Ministry of Health, the Moroccan Red

Crescent and the General Directorate of Civil Protection to provide as many beaches as possible with health facilities.

- Alert the Ministry of Equipment to the importance of better controlling concessions granted.
- Improve the organization of commercial activities on the beaches.
- Strengthen local beach self-monitoring processes.

PROTECTED AREAS, SUSTAINABLE DEVELOPMENT LABORATORIES



Marchica lagoon (Nador) : the Foundation supports the management of an ornithological park to promote the protection of birds and their environment

The Foundation has continued to develop its expertise and implement environmental education and capacity building tools targeting youth, the general public and stakeholders in the regions' Protected Areas, thus promoting their protection and sustainable management through the two wetland projects in the Marchica Lagoon and Oued Eddahab Bay. It has also fostered the sustainable development dimension in the projects carried out in the Intercontinental Biosphere of the Mediterranean (RBIM).

MARCHICA LAGOON (NADOR)

In the Marchica Lagoon, artificial reefs were designed and built in 2017 and are scheduled to be immersed in April 2018. They complete a scheme started with the installation of artificial nurseries (50 Biohuts) in the port of Atalayoun. This project has contributed to the development of ecological engineering and stressed the role of the Marchica Lagoon as a nursery in the context of current global climate changes.

In this area, the Foundation is also assisting international and national experts, mobilized to design and monitor the development and management options of an ornithological park, which will enhance the protection of birds and their environment while also serving as a recreational and educational location for environmental protection education.

INTERCONTINENTAL BIOSPHERE RESERVE OF THE MEDITERRANEAN (RBIM)

In the North as well, the Foundation, through its programs, supports its partners for the sustainable development of the Intercontinental Biosphere Reserve of the Mediterranean (RBIM), particularly through the implementation of the «Lima-Paris Action Agenda» initiatives and the objectives of the 2030 Agenda.

OUED EDDAHAB BAY (DAKHLA)

In Dakhla, an educational trail was delivered in 2017 in Oued Eddahab Bay.

Its modules communicate and raise awareness about the importance of the bay's biodiversity, the region's fossil water table and the scarcity of fresh water, waste sorting and composting, and renewable energies.

AIR/CLIMATE



11

COMPANIES HAD IMPLEMENTED A PLAN TO REDUCE GREENHOUSE GAS EMISSIONS BY THE END OF 2017

QUALIT'AIR PACT

The momentum triggered by the signing of the Quality Pact in Skhirate in February 2016 was sustained in 2017 thanks to the involvement of companies.

The 23 CGEM affiliated companies which signed the pact started their greenhouse gas assessments, using the Foundation's tools.

By the end of 2017, eleven companies had completed their GHG assessments and set up a plan to reduce greenhouse gas emissions: SNTL, Lydec, SAPST, APC, Oulmès, CTM, Souriau Maroc, OCP_Jorf Lasfar, Cosumar and Orobrique.

REGIONAL CLIMATE PLANS

The Qualit'air program is also deployed in the regions. The partnership established with the DGCL, and extending until 2020, aims to support the Kingdom's regions in the implementation of their climate plans, starting with three pilot territories (Marrakech-Safi, Rabat-Salé-Kenitra, Casablanca Settat).

The first Territorial Climate Plan was launched in the Marrakech region. It will make it possible to conduct a greenhouse gas assessment of the city and to implement an action to benefit local players.

The carbon assessment of the Marrakech

prefecture has been completed and the action plan for greenhouse gas emissions mitigation and adaptation is currently being finalized with local stakeholders.

In the same context, a Moroccan delegation visited the Ile de France and Provence-Alpes-Côte d'Azur regions to study the institutional systems for monitoring and improving air quality, the structure of regional competencies as well as new technologies developed in this field. In addition to the DGCL, this mission also included officials from the Rabat-Kenitra region.

Finally, regional air quality capacity building workshops were organized for executives and managers working in the environmental departments of local authorities and prefectures in the Agadir, Fez and Casablanca regions.

PUBLIC AT LARGE

The partnership with Autoroutes du Maroc was also extended to raise awareness among young people and the general public. In 2017, awareness messages were posted on billboards on the Moroccan motorway network from July 1st to August 31st, 2017.



2000

NEW DATE PALMS WERE PLANTED AS PART OF THE VOLUNTARY CARBON OFFSET, IN 2017

TRAINING

To support the Foundation in its Air-Climate program, a partnership agreement is being finalized with the Bilan Carbone Association (ABC). Founded in 2011, this association was chosen by ADEME, the Foundation’s long-standing partner, as a reference institution for greenhouse gas (GHG) emissions assessments. The Foundation has relied on this model to build its own diagnosis. The ABC Association will also contribute its experience in awareness raising and training.

ELECTRICAL MOBILITY

A feasibility study on electric mobility has been launched in partnership with UNEP, AMEE (Moroccan Agency for Energy Efficiency), the Marrakech Prefecture and DGCL. It is considering the possibility of introducing electric motorcycles in the city. A market study is underway to assess the state of the motorcycle fleet in Marrakech and design an approach for the effective implementation of this pilot project.

VOLUNTARY CARBON OFFSET

In 2017, 2000 new date palms were planted as part of the voluntary carbon offset program in the Marrakech palm grove, reaching 16,000 palms. The Foundation supported the Ministry of Tourism in carrying

out the city of Marrakech’s GHG assessment by making available the Foundation’s GHG assessment tool.

ECO-EPIDEMIOLOGICAL SCHEME IN CASABLANCA

A three-year agreement (2016 - 2019) was signed on 11 February 2017 between the Ministry of Health, the General Directorate of Local Authorities (DGCL), the Secretariat of State for Sustainable Development, the National Meteorology Division and the Wilaya and Region of Casablanca-Settat. The purpose of this convention is to set up a first eco-epidemiological scheme of its kind in Morocco in the Casablanca-Settat region.

This scheme will make it possible to monitor the health risks associated with air pollution and will ultimately provide decision-makers with an operational tool to protect the health of the region’s inhabitants.

The signatories of this agreement, as well as other key public and private regional partners and actors, support the implementation of this mechanism managed by the Ministry of Health’s Department of Epidemiology and Disease Control.

This implementation is the result of the eco-epidemiological pilot study carried out by the Foundation for the Greater Casablanca

between 2012 and 2014. The study quantified the harmful effects of air pollution on the region’s inhabitants, particularly the most vulnerable, such as the elderly and children.

SUSTAINABLE TOURISM

BLUE FLAG



INTERNATIONAL RECOGNITION

25 Moroccan beaches have hoisted the Blue Flag, the international quality label for beaches with very demanding standards. To the 22 beaches already labelled in 2016, three new beaches have been added: Sidi Kankouch 1 in Fahs Anjra Prefecture, Sidi Ifni and Imintourga in Sidi Ifni province, reflecting the progress of the «Clean Beaches» program (see the list of beaches labelled «Blue Flag 2017» below).

This progress is a recognition of the efforts exerted by the Foundation and its partners, which only reinforces their strategic choice to bring beaches up to these high international standards.

TABLE TITLE: BEACHES LABELLED BLUE FLAG IN 2017

- Ba Kacem, Tanger-Asilah
- Aglou sidi moussa, Tiznit
- Arekmane, Nador
- Achakar, Tanger-Asilah
- Bouznika
- Skhirate
- El Moussafir, Dakhla
- Essaouira

- Foug El Oued, Laâyoune
- Haouzia
- Dalia, Fahs Anjra
- Oued Aliane, Fahs-Anjra,
- Oualidia
- Oued Laou, Tétouan
- Oum labouir, Dakhla
- Safi
- Saidia
- Sidi Rahal
- Souiria Lkdima, Safi
- Station touristique de Saidia
- Cap Beddouza, Safi
- Agadir
- Sidi Kankouch 1, Fahs Anjra,
- Sidi Ifni
- Imintourga, Mireleft

The expertise acquired by the Foundation in developing the Blue Flag program has made it possible to award the first «Blue Flag» label to a marina: that of the Saidia Med resort in the Oriental

SUSTAINABLE TOURISM

GREEN KEY



Green Key Establishment recycling dead palm trunks in bench

RESPONSIBLE TOURISM - GREEN KEY

The 2017 "Green key" awareness-raising and labelling campaign

138 tourist accommodation facilities signed up on the label platform to start an environmental management approach: 65% are hotels or similar establishments and 35% are small facilities (guest houses, inns, cottages, guest farms ...).

82 establishments were awarded the Green Key international label this year. 72 of them were renewals, the other ten were new grantees.

The certified establishments include 36 hotels, including 8 luxury hotels and nine 5-star hotels, 4 hotel clubs, 2 tourist residences and 38 small facilities, including 20 guest houses and 10 guest farms.

Capacity building

In order to support tourist establishments as they adopt their environmental approach, the Foundation posted a forum for exchange and sharing of good practices on the Green Key portal. It also compiled a collection of label criteria implementation experiences by larger facilities (hotels and similar).

These tools build on and supplement the support materials developed and made available by the Foundation to operators in order to facilitate the implementation of label criteria and thereby, to play an active role in fostering responsible tourism approaches.

MARRAKECH PALM GROVE

SAFEGUARDING AND DEVELOPING THE MARRAKECH PALM GROVE

The Marrakech Palm Grove Safeguarding and Development Program has entered its tenth year. The Foundation oversees plantations, including irrigation and maintenance, and involves local people in safeguarding and development work.

40

SCHOOLS RECEIVED THE GREEN KEY LABEL IN MARRAKECH IN 2016, INCLUDING 5 IN THE PALM GROVE CIRCUIT

IRRIGATION OF PLANTATIONS WITH PURIFIED WASTE WATER

Following the signing of a partnership agreement with RADEEMA in June 2015, the project to irrigate palm trees with treated water from the Marrakech wastewater treatment plant has now reached full maturity. It was conducted in two tranches. The first five-year section covered 570 hectares divided between the western part of Oulja and the Abiad sector. It will be able to water 200,000 palms, young and old. Works for transporting treated water to the palm grove and constructing a storage basin were launched by RADEEMA in 2015. Whereas the routing of water to the Northwestern part of the palm grove has been completed since 2016, that of the Northeastern part are still impeded due to land ownership constraints.

AWARENESS-RAISING AND RESPONSIBILITY

The protection of the Palm grove primarily concerns the local population. As a result, the Foundation endeavors to inform the local population so that it becomes aware of its heritage and general responsibilities. The inclusion of the Palm grove's local population in its protection is a key success factor for the safeguarding project. It promotes the Palm grove's resilience. The Foundation's programs are deployed as follows:

- Eco-Schools for raising awareness among

schoolchildren: eight schools in the palm grove have joined the program and one of them, the Oum El Fadel Eco-School, has been awarded the international Green Pavilion label in 2017, the highest distinction of the program.

- Green key: 40 schools received the Green Key label in Marrakech in 2016, including 5 in the Palm grove circuit
- Project for farmer Inclusion: this project promotes small sustainable agricultural activities benefiting the people who implement them through income generation and for the benefit of the reconstituted natural environment. The project helps settle these populations on their lands and transforming them into protectors of the Palm grove.

The pilot phase of the agro-ecology project, extending over two years, started in April 2015 under the chairmanship of the Wali of Marrakech-Safi Region. The monitored farms are concentrated in four douars, the northwestern part of the Palm grove, whose agricultural activities have been preserved from urbanization. This part also contains the Oulja marsh, whose classification as Site of Biological and Environmental Interest (SIBE) is still in progress. This zone is currently threatened by advancing urbanization to the south and by river floods which affect bordering plots to the center.

Four areas of intervention are pursued to achieve the project's objectives:



- **Area 1:** Securing agricultural activities;
- **Area 2:** Ecological intensification and improved product flow;
- **Area 3:** Awareness-raising, information on the issues of sustainable development;
- **Cross-cutting area:** Capitalization so as to generalize actions to all the northwestern palm grove.

49 family farms were supported. The training focused on agricultural techniques, to produce better, more, and consistently, as well as on management, specifically marketing. Their activities revolve around market gardening, fruit tree growing, cattle and sheep farming.

Administrative support has also been provided. The wells have been referenced; a small scale business entity enabling the management of product flows to tourist establishments has been created; the interests of farmers have been pooled in a professional organization.

The project has also included literacy training for farmers and their families, in order to improve their management (accounting) and understanding of their environment. The issues of sustainable development were presented to them.

Finally, solar pumping devices are currently being installed.

Results

The results to date have been tangible:

- 147 hectares have been enhanced thanks to agro-ecology;
- 10 vegetable species were introduced in market gardening with 70% success and two new species were introduced in arboriculture with 100% success;
- The rate of adoption of best practices is 84% in market gardening, 93% in arboriculture and 94% in breeding;
- Mastery of reading, writing and numeracy skills is progressing: 75% of learners have acquired basic skills;
- Women are interested in also developing income-generating activities (IGAs) in family farms
- 7 hotels and Riads are participating in the marketing scheme;
- The management of small equipment, such as sprayers, is collective;
- 18 applications for the referencing of wells have been submitted and 9 authorizations delivered by the end of 2017;
- Yields have increased and been maintained between 17 and 20 t/ha in market gardening: yields in arboriculture have increased by 30% and those of cattle and dairy farming by 27%;
- The use of synthetic chemical inputs has been discarded in market gardening, where production is 100% agro-ecological;
- 15,000 dirhams of additional annual income were recorded in market gardening.

STRUCTURING LONG TERM IMPACT

In the long term, this support has boosted farmers, some of whom have decided to set up their own business or to modify their production system. Women also want to start businesses. Farmers have themselves invested without project support (purchase of scooter for the sale of products, new plantations ...).

This project will undergo a phase of consolidation and take over by local stakeholders in 2018.

RESTORATION OF HISTORIC PARKS AND GARDENS

RESTORATION OF HISTORIC PARKS AND GARDENS PROGRAM



Gardening classes for school groups and adults

BOUKNADEL EXOTIC GARDENS IN SALE

The Foundation has been managing the Bouknadel exotic gardens since their rehabilitation and reopening to the public in 2005. It has supported the General Directorate of Local Governments, the Prefectural Council of Sale and the Sale Prefecture in the preservation of this historical heritage.

In 2017, these three partners renewed for the fifth time the triennial agreement that has been binding them since the reopening in 2005. It covers the period 2018-2020.

2017 ended with a slight drop in attendance figures, an inevitable consequence of the disappearance of the parking lot, due to the construction of the Center for Environmental Education. The number of visitors to the exotic gardens totaled 95,085 visitors, including 40,220 children. 437 guided tours were organized for groups, including 315 schools.

MAINTENANCE AND DEVELOPMENT

The maintenance of existing infrastructure (irrigation network, lighting network, bridges and footbridges), of buildings, huts, pagoda, tours, aviary and the vivarium were carried out yearly, in accordance with the specifications laid down for the conservation of heritage and the development of the mission of gardens. The footbridges, bridges and their supporting pillars subject to

deterioration due to water wear have been replaced by water resistant wooden rail sleepers offered by the National Railways company (ONCF). The suspension bridges of the Polynesian, Japanese, South Asian, Chinese and Brazilian gardens have been reinforced by new cables. Two new footbridges were installed in the Mexican garden. Finally, two young people trained at the Almanar Center for People with Mental Disabilities in Rabat joined the maintenance team.

SHOWCASING AN ECOLOGICAL MODEL

Every year, the Gardens expand their environmental awareness-raising and education role.

The educational circuit's five interactive terminals have been updated and renovated. They showcase simple daily actions to limit our environmental impact, which young people in the school groups which walk along the circuit can read and adopt.

The educational program offered to school groups and adults has been renewed with the help of the Association des amis des Jardins exotiques (Association of Friends of the Bouknadel Exotic Gardens). Increasingly varied activities are offered to visitors: photography and painting competitions, gardening classes, demonstrations of distillation of essential oils from flowers and aromatic plants, treasure hunts, guided tours, carbon offsetting...

The organic vegetable garden started in 2015 allows for educational activities, and the vegetables that are produced are offered to staff and members of the Association des amis des Jardins. An experimental underground pressurized micro-diffusion irrigation system designed from recycled tires has been installed. Two glass hives were installed to show young people the active organization and life of bees.

Compost production is part of the introductory gardening course and allows the gardens to be self-sufficient in fertilizer products for the various plants.

Wastewater recovery, drip irrigation and solar energy, all environmentally friendly techniques, are presented as models of action.

LIFE IN THE GARDENS

As far as births, ducks, golden pheasants, parakeets, lovebirds, diamond doves and mandarin diamonds have kept up their fertility, much like their aquatic counterparts, koi carp and mosquito fish (gambusia). As they are very numerous, the latter serve as biological control agents against the proliferation of harmful insects, including mosquitoes.

The abundant production of the Exotic Garden's nurseries, which exceed its maintenance needs, benefits schools and green areas of neighboring municipalities.

PORTALS

SITES AND PORTALS

INSTITUTIONAL SITE “WWW.FM6E.ORG”

An analysis of visitor behavior on the institutional site led to its ergonomic redesign. Improvements to its architecture aim to facilitate navigation and create interaction with visitors.

In terms of content, the site reported on **the President's** activities and regularly disseminated press releases. Lastly, the program sheets, photo and video galleries have been updated.

PORTALS

**www.ecocoles.ma**

The Eco-Schools portal has been significantly upgraded, with:

- The launch of interactive maps of registered schools, accredited schools (Green Flag, Silver Certificate, Bronze Certificate), and a JNL Card. (National days of the Coast)
- The portal has been redesigned to be responsive to different communication media: computer, smartphone, tablet.

Work on revamping the Eco-Schools' portal was launched to make it easier to navigate and enable updates to good practices in schools.

**www.clefverte.ma**

The portal has been enriched with an interactive space dedicated to tourist facilities. They can now share and exchange best practices. The interactive maps and criteria grids for the Hotels and Small Facilities category have been updated.

**www.jre.ma**

A photo gallery was developed and put online to showcase the award ceremonies for the winners of the program and the capacity building workshops for middle and high school students. This gallery retraces the 15 years of YRE, from 2002 to 2017.

The circular, the program's annual action plan and the year' winners of the written and photographic reports competition were posted on the portal.

**www.plagespropres.org**

The Annual Clean Beaches Report is now available on the portal. A more responsive version of the portal has been developed. The interactive Blue Flag and Clean Beaches maps have been updated.

**www.jardinsexotiques.org**

An interactive version of the site is now available and the educational program activities for the 2016-2017 season have been integrated.

APPENDICES

38 BOARD OF DIRECTORS

39 PARTNERS

ORGANIZATION

BOARD OF DIRECTORS



The Board of Directors - Rabat - June 29, 2017 : HRH Princess Lalla Hasnaa Chairs Board of Mohammed VI Foundation for Environment Protection

PRESIDENT

Her Royal Highness Princess Lalla Hasnaa

EXECUTIVE PRESIDENT

LAHOUCINE TIJANI

GENERAL SECRETARY

Nouzha Alaoui

FOUNDING MEMBERS

- CGEM
- OCP
- ONEP
- Royal Air Maroc
- BMCE Bank
- GPBM
- Akwa Group
- Maroc Telecom
- Cooper Pharma
- Shem's
- ONA Fondation
- ONE
- ANP
- ONMT
- BCP
- Holmarcom
- Samir Mohammédia
- Association Professionnelle des Cimentiers du Maroc

PERMANENT MEMBERS

- Ministry of Energy, Mines, water and environment
- General Directorate of local Authorities (DGCL)

PARTNERS

- Maroclear
- HOLMARCOM Group
- Veolia Environnement Group
- JAMAI
- French Development Agency
- French Global Environment Facility
- CGI Company
- Caisse de Dépôt et de Gestion Foundation
- Banque Populaire for Education and Culture
- Anapec
- Agency for Promotion and Economic and Social Development of the Oriental Lyonnaise des Eaux de Casablanca (Lydec)
- Agency for Promotion and Economic and Social Development of the prefectures and Southern Provinces of the Kingdom
- MedZ
- Agency for the Development of the Bouregreg Valley
- Suez Environnement
- Tangier Mediterranean Special Agency
- Al Omrane
- Nestlé Morocco
- Agency for Promotion and Economic and Social Development of prefectures and Northern Provinces of the Kingdom
- United Nations Programme for Development (UNDP)
- United Nations Environment Programme (UNEP)
- Amendis Tangier-Tetouan
- Amendis - Tetouan
- Office National of Railways (ONCF)
- Morocco Credit Agricole
- Foundation for Environmental Education (FEE)
- Environment Agency and Energy Management (ADEME)
- Autoroutes du Morocco
- Barid Al Maghrib
- Ciments du Maroc
- Groupe Mutuelle Agricole Marocaine d'Assurances (MAMDA) / Mutuelle Centrale Marocaine d'Assurances (MCMA).
- CDG Foundation
- Development Society Lagoon Marchica MED
- GIZ-German Development Cooperation
- ADDOHA Group
- UNESCO
- ISESCO
- National Airports Authority (ONDA)
- SNEP
- AMEE
- Fédération National Scouting in Moroccan
- Jorf Lasfar Energy Company (TAQA)
- Agnelli Foundation
- Asment Temara
- BMCE Bank Foundation for Education & Environment
- Marsa Morocco
- Islamic Culture Foundation (FUNCI)
- National Institute for Agricultural Research
- Embassy of the Kingdom of the Netherlands
- Imperial Tobacco Morocco
- REDAL
- Lafarge Morocco
- Grouping of Morocco Oil tankers
- High Commission for Water, Forests and the Fight against Desertification
- Fourtou Foundation
- National Society of Television and broadcasting
- Royal Moroccan Federation of Yachting Sail
- Moroccan Federation of Societies Insurance and Reinsurance
- National Institute of fisheries Research
- Office of Vocational Training and Promotion of Work (OFPPPT)
- Societe Generale Marocaine des Banques (SGMB)
- Théoia
- IDB
- International Union for Conservation of Nature
- Observatory Palm Grove Marrakech
- General Confederation of Enterprises of Morocco (CGEM)
- Cherifian Office of Phosphates (OCP)
- National Office of Water and Electricity (Onee)
- National Ports Agency (ANP)
- Royal Air Morocco
- Groupement professionnel of Morocco's Banks (GPBM)
- Akwa Group
- Maroc Telecom
- Cooper Pharma
- Shem's
- ONA Foundation
- Moroccan National Office of Tourism (ONMT)
- Prince Albert II of Monaco Foundation
- Banque Centrale Populaire (BCP)
- SAMIR
- Professional Association of Morocco Cimentiers (APC)
- General Directorate of Local Authorities (DGCL)
- Ministry of Energy, Mines, Water and Environment (MEMEE)
- Ministry of Education
- National Association of Coastal Elected
- Permanent Secretariat WEEC
- Action Plan for the Mediterranean
- Conservatory of Coastline
- Spanish Agency for International Cooperation (AECIDI)
- Water Agency (RMC)
- Secretariat of the United Nations for Change Climate
- Mairie of Elche
- Agrisud International
- Foundation Norsys
- MIOECSDE
- Citibank
- Fédération Nationale de l'Industrie Hôtelière
- CIH
- BMCI
- Attijariwafabank
- Holcim
- Institut Agronomique et Vétérinaire Hassan II
- Ministère de l'Équipement, du transport et de la Logistique
- RMA WATANYA
- Méditel
- Groupe Jamain Baco
- Vivo Energy Morocco
- Observatoire National des Droits de l'Enfant
- Prix « Green Apple »
- Association des Enseignants des Sciences de la Vie et de la Terre
- RADEEMA
- Sony ericsson
- Alcatel
- Saïdia Developpment Company
- ECOSOC
- FAD
- ALSTOM Foundation
- Goi Peace Foundation



مؤسسة محمد السادس لحماية البيئة
FONDATION MOHAMMED VI
POUR LA PROTECTION DE L'ENVIRONNEMENT

www.fm6e.org

Route de Zaers, Avenue Mohammed VI
Rue El Madani Ibn Houssaïni. B. P 5 679 Rabat — Maroc
Tél. : 05 37 65 88 44 — Fax : 05 37 65 55 31
E-mail : environnement@fm6e.org