



مؤسسة محمد السادس لحماية البيئة
FONDATION MOHAMMED VI
POUR LA PROTECTION DE L'ENVIRONNEMENT
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Update and upgrade of the Bilan Carbone Tool

Interim report





Her Royal Highness Lalla Hasnaa,
President of the Mohammed VI Foundation for
Environmental Protection.

“

Water, air and earth are three elements that need to be preserved because they are the prerequisite for all human life on earth. Their rational management is the right approach, both on a human, economic and social level, and is essential for sustainable growth.

”

Extract from a speech made by **Her Royal Highness Princess Lalla Hasnaa** on World Environment Day, June 5th, 2000.



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BACKGROUND

The instigation of **His Majesty King Mohammed VI** and under the effective presidency of **Her Royal Highness Princess Lalla Hasnaa**, the Mohammed VI Foundation for Environmental Protection has been engaged, for twenty years, in education for, by and on the environment. Its mission is to raise awareness and educate citizens about the environment and sustainable development, taking action on the ground through pilot and demonstration projects.

In order to operationalize this mission, the Mohammed VI Foundation for Environmental Protection managed to establish a strong network of national and international partners, as part of a unifying approach bringing together all stakeholders, mobilizing collective intelligence, while ensuring the voluntary approach dear to **Her Royal Highness Princess Lalla Hasnaa**.

Twenty years of commitment to the Air and the Climate

It is in this spirit that the Air and Climate pillar has evolved since 2002, serving as a laboratory and undertaking many initiatives that foster collective awareness about air quality and climate change.

In line with its actions and in accordance with the 3rd strategic axis of the Air Climate pillar, that is to say the target of “Zero Carbon” by 2050, the Mohammed VI Foundation for Environmental Protection wants to support all of society’s actors in this resilient and inclusive transition towards carbon neutrality.

In order to reduce GHG emissions, we must first know how to measure them. In that regard, in 2013, the

Foundation developed tools enabling organizations and individuals to understand and assess their greenhouse gas emissions, so that they could reduce them or potentially offset them. In particular, **the GHG management tool**, Bilan Carbone, developed with the support of ADEME (the French Agency for Ecological Transition), as well as the online CO2 calculator devoted to transport and made available to the Foundation’s partners.

These tools now need to be updated, including the emission factors which have not been updated since, new pertinent emission factors need to be added, and the anticipated new international regulations of the EU Carbon Border Adjustment Mechanism and Article 6 of the Paris Climate Agreement need to be integrated, through an inclusive and participative approach, whereby all stakeholders make use of this shared tool and bring it to life.

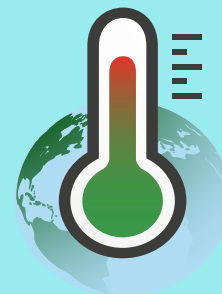
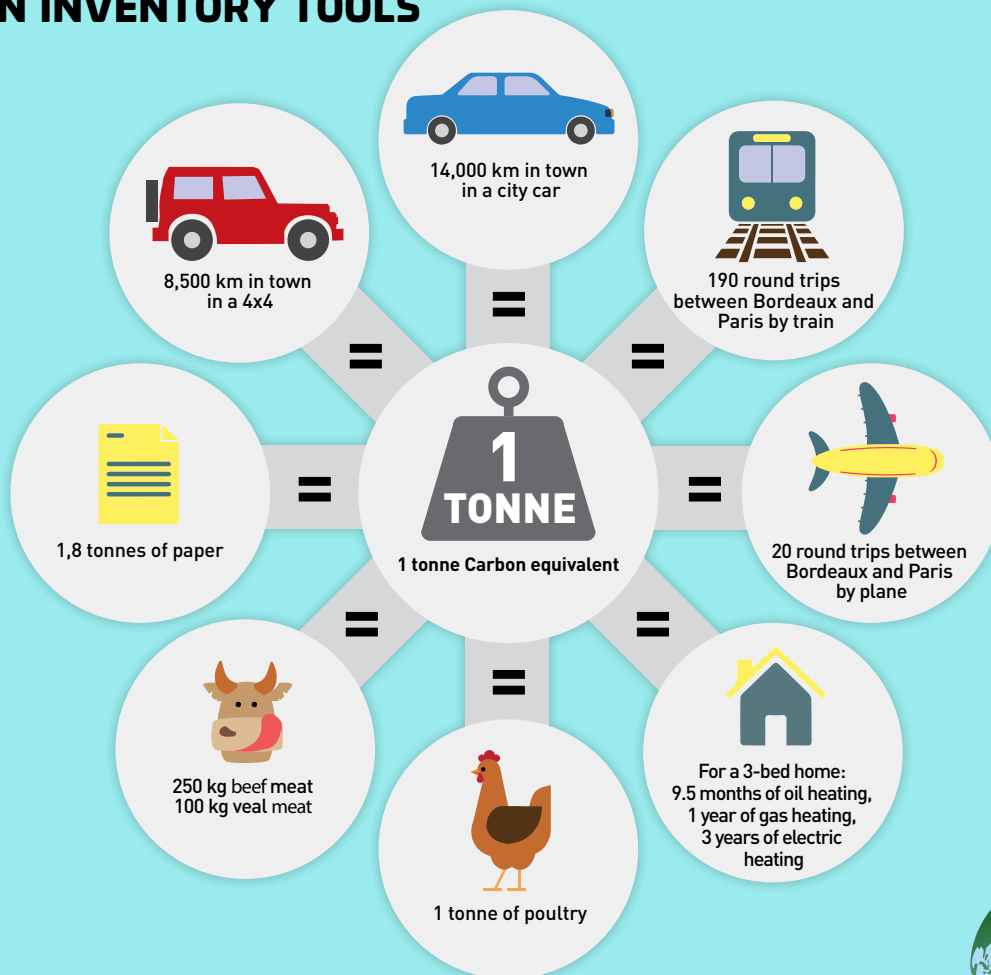
A task force for action

For this, the Foundation, by virtue of its unifying role, within the scope of a Framework Convention for the decarbonization of the Moroccan economy, mobilized the main national stakeholders to update and upgrade the Bilan Carbone Tool. This framework convention, signed on July 27th, 2021, brings together: the Ministry of Industry and Trade, the Ministry of Energy Transition and Sustainable Development, AMEE (Moroccan Agency for Energy Efficiency), IMANOR (Moroccan Standards Institute), CGEM (General Confederation of Moroccan Enterprises), as well as the Mohammed VI Foundation for Environmental Protection.

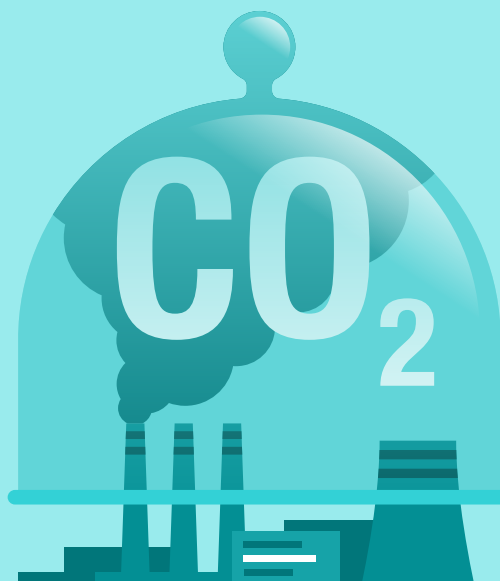
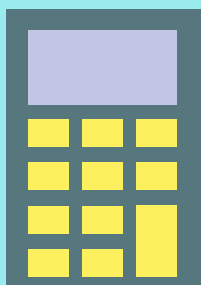


UPDATE OF THE FOUNDATION'S TOOLS

CARBON INVENTORY TOOLS



CO2 CALCULATOR



PRIORITIES FOR 2022

In order to achieve the objectives of the Framework Convention for the decarbonization of the Moroccan economy, the Foundation and its partners from the Task Force have established an action plan to implement the objectives of said convention.

1st action

LAUNCH OF A STUDY TO UPDATE AND UPGRADE THE BILAN CARBONE TOOL

For that, a restricted invitation to tender was launched with 18 consultancy firms recognized in the field (9 national and 9 international). After a rigorous selection process, the EDIC/NRJ30 group won the call to tender. The Kick-off meeting for the study took place on January 5th, 2022 at the Hassan II International Center for Environmental Training. This study will take place in 3 stages :

1st mission

- **Updating the 200 emission factors** that exist in the Tool. Deliverable expected at the end of May 2022.

2nd mission

- **Upgrading the tool** by adding new pertinent emission factors. Deliverable expected at the end of September 2022.

3rd mission

- **Upgrading in terms of the EU Carbon Border Adjustment Mechanism and Article 6 of the Paris Climate Agreement.** The objective is for the Tool to be recognized on a National and International level. Deliverable expected at the end of October 2022 to be presented at COP27, which will be held in Egypt from November 6th to 18th, 2022.

ESTABLISHMENT OF A STEERING COMMITTEE TO STUDY THE UPDATE AND UPGRADE OF THE BILAN CARBONE TOOL

A steering committee, bringing together all the members of the Framework Convention for the decarbonization of the Moroccan economy, as well as the DGCT (General Directorate of Local Authorities) and the experts of ABC (Association Bilan Carbone), was set up to closely monitor the study to update and upgrade the Bilan Carbone Tool. In addition to the technical aspect of updating and upgrading the Tool, training sessions on the use of the tool will be organized for partners in the 2nd semester of 2022.

DEVELOPING THE DIGITAL PLATFORM FOR CALCULATING CARBON FOOTPRINTS USING THE BILAN CARBONE® METHOD

In order to make it easier to create a carbon inventory, the Foundation and its partners from the Task Force decided to develop a digital platform for calculating the Bilan Carbone®. This web-based tool will enable actors who wish to do their carbon inventory to calculate the carbon footprint of their products automatically with updated Moroccan emission factors, on a collaborative, ergonomic and easy-to-use platform. This calculation tool will be certified by ABC and presented in October 2022 at the high-level pre-COP meeting that will be organized at the Hassan II International Center for Environmental Training.

ADAPTING THE BILAN CARBONE TOOL TO TERRITORIES

Once the update and upgrade of the Bilan Carbone Tool planned for the end of 2022 is complete, the Foundation and its partners plan to work on adapting the Bilan Carbone Tool to territories in 2023 in close collaboration with the General Directorate of Local Authorities.

Reduction of the % of carbon emissions, as per Morocco's new NDC.

RAISE OF THE NATIONALLY DETERMINED CONTRIBUTION (NDC) IN MOROCCO

The updated and upgraded Bilan Carbone Tool will be able to measure the emissions from different industries, in order to achieve our objectives within the framework of the Paris Climate Agreement. In 2021, Morocco raised its Nationally Determined Contribution, aiming to reduce its GHG emissions by **45.5%** by **2030**, that it to say 77.5 Mt CO₂e (million tonnes carbon dioxide equivalent), with an unconditional target of 18.3%, the remainder being conditional upon international funding.

Land management and forestry
3,9 %

Agriculture
11,7 %

Construction
5,8 %



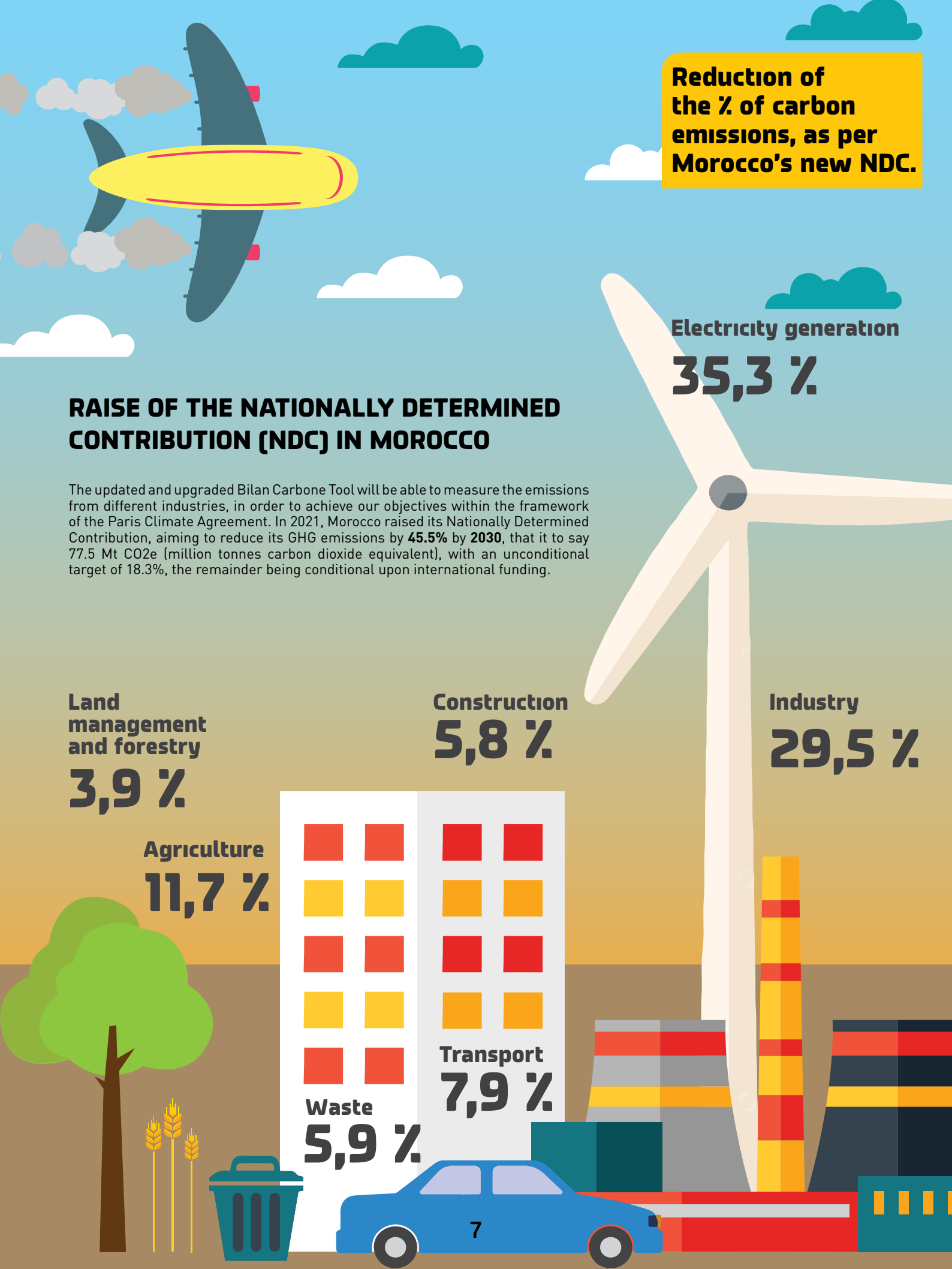
Waste
5,9 %



Transport
7,9 %

Electricity generation
35,3 %

Industry
29,5 %



STRATEGIC PARTENERSHIPS WITH ABC

2nd action

PARTNERSHIP AGREEMENT SIGNED IN JANUARY 2022 WITH THE ASSOCIATION BILAN CARBONE

The Association Bilan Carbone (ABC) is a key actor appointed by the French Agency for Ecological Transition (ADEME) to develop and disseminate the Bilan Carbone® methodology in Europe and internationally. ABC is an excellent partner to help us familiarize Moroccan actors with the principles of carbon accounting, so that Morocco can export towards international markets and meet its carbon neutrality commitments. This partnership is two-pronged:

- A **consulting mission, as part of the study** to update and upgrade the Bilan Carbone Tool. ABC will be able to challenge the work of experts, verify conformity with the Bilan Carbone® methodology and help us with international recognition.
- The **establishment of training sessions** on carbon accounting for Moroccan actors.

LAUNCH OF TRAINING SESSIONS ON CARBON ACCOUNTING IN 2022

The Foundation and its partners have implemented a training and popularization program on the Bilan Carbone® methodology. This training is carried out by ABC within the framework of the agreement between the Foundation and ABC. The first training session, an introduction to carbon accounting, took place on Friday, February 4th, 2022. The second training session devoted to the transition strategy, how to establish an action plan, took place on March 26th, 2022. The last training module took place on June 13th, 2022 and was devoted to carbon offsetting. Moreover, on June 15th and 16th, 2022, the Foundation organized, at the Hassan II International Center for Environmental Training, two training days for Bilan Carbone® certification, using the new national emission factors, hosted in person by ABC experts. In addition to the training carried out by ABC, other training sessions on the use of the Bilan Carbone Tool will be delivered by the EDIC/NRJ30 group within the framework of their mission to update and upgrade the Bilan Carbone Tool.

QUARTERLY WEBINARS TO RAISE THE GENERAL PUBLIC'S AWARENESS ABOUT DECARBONIZATION

Within the framework of its primary mission to raise awareness, educate and provide training to citizens on the environment and sustainable development, the Foundation will organize, in collaboration with the Hassan II International Center for Environmental Training, quarterly webinars throughout 2022, with major national and international experts in different areas related to decarbonization: energy efficiency, renewable energies, sustainable mobility and the sustainable management of water resources. The first Webinar on: energy efficiency at the heart of decarbonization and green economy policies, organized in partnership with AMEE, was organized at the Hassan II International Center for Environmental Training on April 26th, 2022. The next webinars are scheduled for the 3rd and 4th quarters of 2022.



Training on the Bilan Carbone method organized on June 15th and 16th, 2022, for companies signed up to the Qualit'air Charter



ENHANCING THE QUALIT'AIR PACT

3rd action

The Qualit'air Pact, launched alongside COP22 in Marrakech by the Foundation and CGEM, **was extended in 2021 to all of the country's stakeholders**, to become the Qualit'air Charter.

By signing up to this Charter, public and private companies, administrative bodies, NGOs, universities, local authorities and civil society commit to:

1. Measure;
2. Reduce;
3. Offset.

Their greenhouse gas emissions in order to achieve carbon neutrality and thus contribute to the global effort to fight against climate change taking into account climate change adaptation, in an inclusive and resilient sustainability approach, in order to support Moroccan non-state actors in a transition towards a low-carbon economy. Four webinars were organized and four others are scheduled for 2022:

Organization of a series of webinars in partnership with CGEM and in collaboration with the British Embassy in Rabat

Launch of a series of Webinars

The **first webinar** was held as a hybrid event at the CGEM headquarters, in the presence of Mr. Chakib Alj, President of CGEM; H.E. Mr. Simon Martin, British ambassador to Morocco and H.E. Ms. Janet Rogan, COP26 Regional Ambassador for the Middle East and Africa.

July 9th, 2021

Presentation of tools

The **second webinar** was an opportunity to present the different tools offered by the Foundation and CGEM to fight against climate change, including through the Qualit'air Pact, as well as the United Nations campaigns, put forth by the UK's COP26 presidency, "Race to Zero" and "Race to Resilience".

September 17th, 2021

Statements from committed companies

The **fourth webinar** allowed for companies to share their experiences creating their carbon inventories and their actions in favor of decarbonization. 3 committed partner companies gave statements during this webinar: Managem, Les Domaines Agricoles and Bank of Africa. Their statements were followed by a debate.

December 13th, 2021



Pre-COP26 climate action meeting

Organized at the Hassan II International Center for Environmental Training, this webinar was attended both in person and remotely, by Mr. Ryad Mezzour, Minister of Industry and Trade, Ms. Leila Benali, Minister of Energy Transition and Sustainable Development, Mr. Chakib Alj, President of CGEM, Dr. Andrew Murrison, British Member of Parliament, Prime Ministerial Trade Envoy to Morocco and Tunisia, and H.E. Simon Martin, British Ambassador to Morocco. Large Moroccan companies from the industrial, transport and agricultural sectors also spoke to express their commitment to carbon neutrality and the climate. This meeting was also attended by young African entrepreneurs, Ambassadors from the African Youth Climate Hub, an initiative launched by the Mohammed VI Foundation for Environmental Protection and its partners in 2019, at the United Nations Climate Action Summit in New York, in a Royal Message written by His Majesty King Mohammed VI, and read out by Her Royal Highness Princess Lalla Hasnaa. This hybrid webinar brought together 20 speakers, 50 in-person attendees, and 300 online participants, with 253 simultaneous views and 1143 connections in total.

October 26th, 2021



4th action

PARTICIPATED IN INTERNATIONAL FORUMS ON DECARBONIZATION AND THE CLIMATE

Participated in Africa Climate Week (ACW)

September 26th to 29th, 2021 - online

- Side event organized on September 26th, 2021 in collaboration with the University of Oxford and the Future of Climate Cooperation team, on “The future of Climate Cooperation in Africa: COP26 to COP27 and beyond”. This webinar was the opportunity to present the Task Force for the decarbonization of the Moroccan economy as a multi-actor innovative approach to achieve the goal of carbon neutrality.

Participated in Pre-COP26 Webinars

October 29th to 30th, 2021

- “Climate Change, the Sustainable Development Goals (SDGs) and the Law in the context of pandemic recovery”, University of Cambridge.
- “Climate and the Wealth Economy: Integrating science, law, economics & policy”, University of Cambridge.

Participated in COP26

November 1st to 12th in Glasgow

The Foundation's team attended several Side Events in person on the subject of decarbonization, including:

- “COP26: Building new foundations for a resilient sustainable recovery towards global net zero”, organized by Major Economies Business Forum on Energy Security and Climate Change.
- “A running start after COP26: transition, recovery and transformation”, organized by Major Economies Business Forum on Energy Security and Climate Change.
- “Net zero climate law and governance – Advancement, Ambition and Action for the Paris Agreement: National Adaptation Plans (NAPs), Nationally Determined Contributions (NDCs), and Sustainable Development Goals (SDGs)”, organized by CISDL, IKEM, Asociacion Ambiente & Sociedad, & Centro Humboldt.
- “Energy transition – Opportunities and Challenges in Africa”, organized at the Morocco Pavilion by the Moroccan Ministry of Energy Transition and Sustainable Development.
- “Improving energy services in Africa”, organized at the Morocco Pavilion by Société d'Ingénierie Energétique (SIE - Energy Engineering Company), with the participation of the Moroccan Ministry for Energy Transition and Sustainable Development, the African Development Bank, E3G: Third Generation Environmentalism and BASE (Basel Agency for Sustainable Energy).

Participated in the European Climate Conference and the Climate Chance Summit Europe

March 7th and 8th, 2022 in Nantes

- Organized by the French Presidency of the Council of the European Union, in collaboration with the Climate Chance association, this conference brought together in Nantes, over two days, 200 climate expert speakers and 800 participants from 20 countries, as well as about thirty national and international networks of non-state actors involved in climate action: local authorities, companies, think tanks, academic and research institutions, environmental organizations, women's organizations, youth organizations, etc..



Participated in MENA Climate Week

**28 au 31 mars 2022
à Dubaï**

The Foundation co-organized 4 side events and took part in 3 others:

- “Climate education: from challenges to opportunities”, organized by the Mohammed VI Foundation for Environmental Protection, with the participation of Mr. Gonzalo Muñoz, High-Level Climate Champion for COP25; Mr. Said Mouline, CEO of AMEE; Mr. Naoufal Mahdar, VP Sustainability Platform – OCP Group; Mr. Neeshad Shafi, Executive Director of the Arab Youth Climate Movement – Qatar.
- “Cascading and localizing climate finance: the next frontier market”, organized by FMDV (Global Fund for Cities Development), in partnership with the Mohammed VI Foundation for Environmental Protection, AMPCC (Moroccan Association of Mayors), ARM (Association of Moroccan Regions), DGCT, with the participation of AfDB (African Development Bank) and AFD (French Development Agency).
- “The role of youth and their capacity in enhancing resilience for Nationally Determined Contribution (NDC) implementation and National Development Plans”, organized by the PCCB (Paris Committee on Capacity Building) Network and UNFCCC, with the participation of the Mohammed VI Foundation for Environmental Protection, the Arab Youth Climate Movement Qatar, YOUNGO and Friedrich-Ebert-Stiftung.
- “Enabling frameworks for accelerated energy transitions”, organized by IRENA (International Renewable Energy Agency), the World Bank, and the Global Wind Energy Council.
- “Role of youth in a just and inclusive energy transition in the MENA region”, organized by UN-ESCWA (United Nations Economic and Social Commission for Western Asia), ILO (International Labour Organization), the World Bank, and Connect4Climate.
- “Role of youth as national actors for climate action”, organized by UNFCCC.
- “Interactive discussion on nature stewardship for inclusive climate actions”, organized by UNFCCC.

Participated in meetings of subsidiary bodies of the United Nations Framework Convention on Climate Change

**6 au 10 juin 2022
à Bonn**

- Discussions on capacity-building needs for implementing Article 6 of the Paris Climate Agreement, organized by UNFCCC.
- Meetings of the Marrakech Partnership for Global Climate Action, organized by High-Level Climate Champions.

5th action

LAUNCH OF A STUDY TO CERTIFY THE FOUNDATION'S VOLUNTARY CARBON OFFSET PROJECTS

In order to bolster the efforts to raise awareness and build capacities for a low-carbon transition initiated by the Foundation in 2009, in July 2022, the Foundation and its partners launched a study to certify the Foundation's Voluntary Carbon Offset projects. This study involves implementing a carbon credit certification process for the Foundation's projects, so that they can be recognized and potentially exchanged on a national and international level. This study will be finalized during the first semester of 2023.



ANNEX



THE QUALIT'AIR CHARTER

The Qualit'air Charter offers its signatories :

1. **A tool for calculating GHG emissions:** based on the Bilan Carbone® methodology, this tool, developed by the Foundation and its partners in 2013, is currently being updated and repositioned to integrate recent changes and developments, including in terms of carbon emission trading, to make it a national reference tool, recognized internationally.
2. **Support:** by offering training and capacity-building sessions, thanks to the support of the Hassan II International Center for Environmental Training, the Foundation's academic arm, centered around the Center's strategic priorities.
 - a. Relaying the knowledge and experience developed around sustainable development issues by the Foundation's communities and networks;
 - b. Raising awareness and training actors and decision-makers on the big challenges of sustainable development;
 - c. Ensuring synergy and sharing between all the Foundation's partners;
 - d. Capitalizing on the lessons and actions carried out by the Foundation.
3. **Pilot and demonstration Voluntary Carbon Offset projects:** by helping to finance, partly and if they want to, reduction and sequestration projects from the portfolio of Voluntary Carbon Offset projects developed by the Foundation since 2009. These pilot projects put forth Nature-Based Solutions, which other actors can duplicate, in order to voluntarily contribute to offsetting unavoidable emissions.



Within this framework, the partner companies of this Voluntary Carbon Offset program are supported by the Foundation in two major areas:

- a. Raising awareness and training on topics of carbon offsetting and sequestration;
- b. An optional portfolio of pilot Voluntary Carbon Offset projects in the following areas:

- **PLANTING:** palm trees, reforestation, fruit trees, ecosystem restoration and promotion of sustainable agriculture...
- **RENEWABLE ENERGY AND ENERGY EFFICIENCY:** solar electrification, solar water heater, solar oven, LED equipment, tablets with solar kits...
- **SUSTAINABLE MOBILITY:** bikes, electric motorcycles, electric cars and electric buses...
- **WASTE:** biomethanation, sorting, recycling and reusing.

Actors wishing to get involved sign up to the “Qualit’air Charter” and commit to:

1. **Assess** their greenhouse gas emissions, by using the Bilan Carbone Tool made available by the Mohammed VI Foundation for Environmental Protection and its partners;
2. **Reduce** their greenhouse gas emissions by adopting and implementing initiatives to streamline and optimize the use of resources and to achieve cleaner production;
3. **Offset a share** of their unavoidable emissions including through the pilot and demonstration projects of the Foundation’s Voluntary Carbon Offset portfolio;
4. **Raise awareness and encourage** the ecosystem to undertake actions in favor of the climate, centered around the Hassan II International Center for Environmental Training and its strategic priorities, namely:
 - a. Relaying the knowledge and experience developed around sustainable development issues by the Foundation’s communities and networks;
 - b. Raising awareness and training actors and decision-makers on the big challenges of sustainable development;
 - c. Ensuring synergy and sharing between all the Foundation’s partners;
 - d. Capitalizing on the lessons and actions carried out by the Foundation.



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