

**Final dissemination event for the
TNA Project and Launching event for the LECB/CCCU/TNC Projects**
Project ID: 00078921 – 0077227 - 00082292

Date	March 11, 2013
Location	Phoenicia Intercontinental Hotel- Beirut
Participants	80 representatives from government, NGOs, intergovernmental organizations, academia and the private sector
Objective	The event was organized to present the results and achievements of the Technology Needs Assessment (TNA) project and disseminate the recently published TNA report. The event was also used to launch a series of new climate change projects to be executed by the Ministry of Environment.
Speakers	<ul style="list-style-type: none"> - H.E. Mr. Nazem El –Khoury, Minister of Environment - H. E. Mr. Robert Watkins – UNDP Resident Representative - Ms. Rola El Sheikh - Head, Service of Environmental Technology - Ministry of Environment - Mr. Vahakn Kabakian – Climate change portfolio Manager – UNDP/Ministry of Environment - Mrs Lea Kai Aboujaoude – TNA coordinator – UNDP/Ministry of Environment

Introduction

Lebanon has ratified the United Nations Framework Convention on Climate Change (UNFCCC) in 1994 and the Kyoto Protocol (KP) in 2006. The Ministry of Environment is the key governmental body responsible for coordinating the implementation of provisions deriving from the UNFCCC and its KP, with its capacity as the National Focal Point to the UNFCCC.

The Technology Needs Assessment (TNA) project was launched in August 2011, with the objective of identifying and analyzing priority technology needs for mitigation and adaptation to form the basis for a portfolio of environmentally sound technology projects and facilitate the transfer of and access to the clean technology.

The assessment involved an in-depth analysis and prioritization of technologies for the power, transport, agriculture and water sectors, as well as an analysis of potential barriers hindering the transfer of prioritized technologies. Sectoral National Technology Action Plans (TAPs) agreed by all stakeholders were prepared, outlining the essential elements of an enabling framework for technology transfer including market development, institutional, regulatory and financial measures, and human and institutional capacity development requirements. The Technology Action Plans also included a cost-benefit analysis and a detailed plan of action to implement the proposed policy measures.

The Technology Needs Assessment project was finalized in December 2012, and the analysis and results were compiled in a report which was jointly published by the Ministry of Environment, UNEP Riso Center and UNDP. A digital copy report is available on <http://undp.org.lb/communication/publications/index.cfm>

The Low Emission Capacity Building (LECB) project aims to build on and/or complement existing and upcoming Lebanese government-led initiatives and develop the required capacities to achieve low emission development. The project is designed to improve Lebanon's relevant infrastructure, institutional capacities, information sharing and coordination processes through the development of a greenhouse gas emission national inventory system, identification and development of Nationally Appropriate Mitigation Actions (NAMAs), and the design of the associated Measurement, Reporting and Verification system to support the identified NAMAs.

The National Action Programme to Mainstream Climate Change into Lebanon's Development Agenda (otherwise known as the Climate Change Coordinating Unit), is in line with the recommendations made in Lebanon's First and Second National Communications to the UNFCCC. The proposed project builds on the on-going mitigation and adaptation efforts of the various national entities. The project will work to meet the national priority of achieving the 12% renewable energy mix target by 2020 to move towards a low carbon/emission economy, as well as provide a directive for national adaptation activities leading to a national low emission climate resilient development strategies.

The Third National Communication (TNC) to the UNFCCC project aims at assisting the Government of Lebanon with the enabling activities necessary to prepare its 3rd National Communication and to submit it to the COP in accordance with the guidance provided by the UNFCCC. The TNC will include a) an updated national greenhouse gas inventory, b) analysis of mitigation measures, and c) assessment of potential impacts of climate change and appropriate adaptation measures.

Summary of Event

- **Mr. Robert Watkins, UNDP Resident Representative**

Mr. Watkins opened the ceremony by emphasizing on the importance of the work the Ministry of Environment is undertaken in the field of climate change and on the importance of the cooperation between UNDP and the Government of Lebanon in general, and in the Technology Needs Assessment project in specific, to “promote integrated policy making linking economic growth, environmental management and social equity as functions of each other”.

- **Mr. Nazem El Khoury, Minister of Environment**

In his welcoming note, Minister Khoury emphasized on the role the Ministry of Environment has been playing in the field of climate change both at a national and regional level, and presented a brief overview of the results of the TNA project, highlighting the major environmental, economic and social benefits and implications of adopting environmentally safe technologies for mitigation and adaptation in Lebanon.

Minister Khoury also took the opportunity to launch 3 new climate change projects to be implemented by the Ministry of Environment in cooperation with UNDP, underlining that these projects will not only meet Lebanon’s commitments to the UNFCCC but will also set the baseline in terms of emissions and vulnerability for all climate change initiatives undertaken in Lebanon. These projects are:

1. The Low Emission Capacity Building Project
2. The Third National Communication to the UNFCCC
3. Climate Change Coordinating Unit (CCCU)

- **Ms. Rola EL Sheikh, Head of the Environmental Technology Department**

In order to illustrate the role that the Ministry of Environment is playing as the focal point institution of the UNFCCC, Ms. Rola El Sheikh presented the activities that the Ministry is undertaking to mainstream to all ministries and concerned parties the results, action plans and recommendations of all climate change studies prepared by the Ministry, to make sure that climate change is taken into account in their planning process. In addition, Ms. El-Sheikh emphasized on the importance of the role of the newly established National Council for the Environment in complementing the work of the Ministry and in bringing a multi-sectoral and multi-disciplinary dimension to climate change.

- **Mr. Vahakn Kabakian, Climate Change Portfolio Manager**

Mr. Vahakn Kabakian presented an overview of the three new projects the Ministry is launching with UNDP to sustain the national momentum of climate change, created in 2007 with the preparation of the Second National Communication to the UNFCCC. Mr. Kabakian linked the objectives and workplan of the “Lebanon’s Low Emission Capacity Building” project, “Third National Communication to the UNFCCC” project, and the “National Action Programme to Mainstream Climate Change into Lebanon’s Development Agenda” (CCCU) projects to the results of the recently published TNA report, emphasizing on the complementarity and harmonization between all the Ministry’s climate change projects to avoid duplication and ensure sustainability in efforts.

- **Mrs. Lea Kai Aboujaoude, TNA coordinator**

Finally, Mrs. Lea Kai Aboujaoude presented the detailed results of the Technology Needs Assessment project, focusing on the process of stakeholders' engagement and stressing on the national economic benefits of reducing emissions from the power and transport sector and of increasing the resilience of the agriculture and water sectors in Lebanon. Mrs. Aboujaoude also introduced the main lines of the enabling framework that would facilitate the creation and expansion of the market for environmentally sound technologies.

The event was opened at 10.15 am and closed at 12.30 pm.



H.E. Nazem EL Khoury, Minister of Environment and H.E. Robert Watkins, UNDP Resident Representative



General view from the event

Annex I- List of Attendance

**Final dissemination event for the
Technology Needs Assessment Project
March 11, 2013**

Attendance List:

Institution	
Ministry of Energy and Water	Pierre El Khoury Ziad Khayat Farid Chaaban Michel Ange Medlej
Ministry of Industry	Ali Shehimi
Ministry of Economy and Trade	Rony Gedeon
Ministry of Public Works and Transport	Hisham Malaeb Ibrahim Najous
Ministry of Finance	Lea Hakim
National Council for the Environment	Ramzi Shasha Georges Abi Saleh May Jurdi
Directorate general of Civil Aviation	Ali Shaar
Council for Development and Reconstruction	Jaoudat abou Jaoude Nancy Awad Faten adada
Lebanese Agricultural Research Institute	Ihab Jemaa
Litani River Authority	Nabil Amacha Rida Jomaa
Arab Forum for Environment and Development	Boghos Ghougassian
World Health organization	Nohal El Homsy
Royal Danish Embassy	H.E. Ambassador Jan Top Christensen
European Commission	Cyril Dewaleyne
Italian embassy	Jacoppo Tavassi
Universite Saint Joseph	Charbel afif
University of Balamand	Georges Mitri
Lebanese American University	Dr Pierrette Zouein, Dr Ihab Ali Charbel Mansour
American University of Beirut	Rana el Hajj Leila Dagher Rafika Dinnawi
Beirut Arab University	Safaa Baydoun
SES	Naji Chamieh Mary Awad
MOORES	Raji Maasri

Diakonia	Rodolph Gebrael
UNDP	Hassan Harajli Krystel Rizk Manal Moussalem Garo Haroutunian Vahakn Kabakian Lea Kai Edgard Chehab Jihan Seoud Luca Renda Robert Watkins
Ministry of Environment	Samar Malek Jeryes Berbari Joelle Gemayel Lama Moukaddem Rola el Sheikh Ziad Awad Hala Mounajed
SPNL	Dalia jawhary Tala moukaddem
V4 advisors	Rawad Massoud Reine Jabbour El Maalouf
Greenarms	Bernard Ammoun
Green Party	Samir Skaf
Hawa Akkar	Wassim Nehmeh Assad Moukarzel
Press	Bassam Kantar Saad Elias New TV Almustaqbal TV Alhayat Albinaa ANB Teleliban Dalati Nahra Manar TV Tarek Chalhoub Youssef Howayek l'orient le Jour The Daily Star Skoun Annahar newspaper ANB RLL Future Newspaper

Annex II- Invitation



Empowered lives.
Resilient nations.



The Ministry of Environment
and
The United Nations Development Programme

have the pleasure to invite you to a launching event on

**Progress and Achievements of
Climate Change projects
at the Ministry of Environment**

DATE Monday March 11th, 2013 from 10.00 am to 11.30 am

LOCATION Phoenicia Intercontinental Hotel, Beirut

AGENDA

Welcome note of the UNDP Resident Representative, *H.E. Robert Watkins*

Welcome note of the Minister of Environment, *H.E. Nazem El Khoury*

Overview of the role of the Ministry of Environment in climate change projects, *Ms. Rola El-Sheikh*

Launching of a new series of climate change projects with UNDP and MoE, *Mr. Vahakn Kabakian*

Dissemination of the Technology Needs Assessment on Climate Change Report, *Mrs. Lea Kai Aboujaoude*

Reception

Please confirm at 01-976555 ext. 507 or at I.kai@moe.gov.lb

Annex III- Speeches



Launching event
Progress and achievements of climate change projects
at the Ministry of Environment

The Ministry of Environment, Beirut
March 11, 2013

**Speech of Mr Robert Watkins
Resident Representative**

Your Excellency Minister Nazem El Khoury, Minister of Environment

Your Excellences

Dear members of the press,

Dear Friends,

Across the world, awareness and acceptance of the need to mitigate national contributions to climate change, as well as find practical ways to adapt to the implications of climate change has never been higher. Following on the Rio+20 summit and the 18th Conference of the Parties to the UNFCCC in Doha last year, priorities such as clean and renewable energy, the green economy and resilience in the face of increasing climactic change have entered the common parlance of decision makers, civil society, businesses and the general public in country after country.

And Lebanon is no exception. Here as elsewhere, the answer to future wellbeing lies in leaving behind the short-sighted policies of the past that often traded economic, social and environmental objectives off against each other. For this reason, UNDP works with the Government of Lebanon to promote integrated policy making linking economic growth, environmental management and social equity as functions of each other, yielding **triple wins** across all three pillars of prosperity. And in recognition of both the growing calls for global action on climate change and its own intensifying energy challenges, Lebanon has made an ambitious pledge to meet at least 12% of its energy supply from renewable resources by 2020.

Climate change in particular has been a priority for UNDP in our partnership with the Ministry of Environment for more than a decade now, beginning with our collaboration on the First National Communication to the UN Framework Convention on Climate Change back in the late 1990's. We have worked with a range of institutions to pilot renewable energy technologies, promote energy efficiency, help conduct greenhouse gas inventories and vulnerability assessments, as well as providing technical support to reaching the 12% renewable energy target.

Now today, with the support of several different funding partners, we proud to join the Ministry of Environment in launching three new initiatives that will form a significant step forward in building a Low Carbon based economy and greater national resilience in the face of Climate Change, while disseminating the results of a fourth just completed.

First, the “Third National Communication to the UNFCCC” will rank Lebanon in terms of progress and challenges for reducing greenhouse gas emissions and the potential adverse impacts of climate change. The results will help drive priority mitigation and adaptation policies for the country.

Second, the “Lebanon Low Emission Capacity Building project” will further guide decision-makers on the most suitable options to simultaneously reduce carbon emissions and stimulate economic growth while moving the Nationally Appropriate Mitigation Actions (NAMAs) programme forward.

Third, the “National Action Programme to Mainstream Climate Change into Lebanon's Development Agenda” will establish a national Climate Change Coordination Unit, strengthening the cooperation between, and building capacity among, different ministries, institutions, the private sector, academia and community organisations on climate change.

Finally, we are pleased to disseminate today the results of an important partnership between the UNDP and the Ministry of Environment. The Technology Needs Assessment project, funded by the Global Environment Facility and implemented in several countries with the support from the UNEP Riso Centre in Denmark, has identified priority technologies and interventions best able to further mitigate and adapt to the impacts of climate change in Lebanon.

We thank all of the many partners who worked hard to make this a success and hope that the summary document shared this morning, with project concepts and action plans ready for immediate uptake by public or private organisations, will help guide policy makers and donors interested in further supporting climate action in Lebanon.

In closing, I would like to thank everyone at the Ministry of Environment, in particular the Minister for his leadership and perseverance, and the climate change team for their dedication and hard work. I look forward to our continued collaboration in helping clear the path for a sustainable, Low Carbon Economy and a better future for all in Lebanon.

Thank you.



كلمة معالي وزير البيئة
الاستاذ ناظم الخوري



التقدم والانجازات في مشاريع تغيير المناخ في وزارة البيئة

الاثنين الواقع في 11 آذار 2013

الساعة العاشرة صباحا

في فندق فينيسيا

سعادة الممثل المقيم لبرنامج الأمم المتحدة الإنمائي، السيد روبرت واتكينز،
سعادة سفير الدانمارك في لبنان، الأستاذ يان توب كريستنسن،
سعادة ممثل منظمة الغذاء العالمية، الدكتور علي مومن،
سعادة المدير العام لوزارة الموارد المائية والكهربائية في لبنان، الدكتور فادي قمير،
السادة ممثلي الوسائل الاعلامية،
زملائي الأعزاء.

إنه لمن دواعي سروري أن أرحب بكم جميعاً اليوم، لنتشارك في إطلاق سلسلة جديدة من المشاريع الخاصة بتغيير المناخ في وزارة البيئة، بالتعاون مع شريكنا الدائم، برنامج الأمم المتحدة الإنمائي.

يتناول اجتماعنا اليوم واحدة من أهم قضايا الساعة على كافة المستويات محلياً وإقليمياً ودولياً: تغير المناخ، ويعد أحد أصعب تحديات هذا القرن. يتغير المناخ باستمرار، وسيستمر بذلك.

صحيح أن مساهمتنا في انبعاثات الغازات الدفيئة ليست كبيرة، إلا أننا تعرّضنا للأثار السلبية لتغير المناخ هام جداً. الأمر الذي يحثنا على العمل، والعمل بسرعة.

لا تتوانى وزارة البيئة عن تحمّل مسؤولياتها، وسوف تستمر في ذلك، كما كرّرنا مراراً في خطط العمل السنوية التي قدّمناها، كما بدأ جلياً في سلسلة المشاريع الجديدة الخاصة بتغيير المناخ التي نحن اليوم بصدد إطلاقها.

لقد عملت وزارة البيئة خلال السنوات الأخيرة على مسألة تغير المناخ، ليس فقط على المستوى الوطني بل أيضاً على المستويين الإقليمي والعالمي. لقد كنّا من أوائل من قاموا بتنفيذ مشاريع فريدة من نوعها في المنطقة، مثل مشروع تقييم احتياجات التكنولوجيا، ومشروع بناء القدرات للخفض من الانبعاثات، ومشروع إنشاء وحدة تنسيق لتغير المناخ.

لبنان اليوم في طريقه أن يصبح مركزاً لأنشطة تغيير المناخ الإقليمية، يتطلّع الجميع إلى بيروت على أنها المقر الرئيسي للعديد من المشاريع الإقليمية مثل مشروع الاتحاد الأوروبي ClimaSouth ENPI، الذي أُطلق مؤخراً والذي يهدف إلى تعزيز سياسة المناخ في 9 دول في منطقة جنوب المتوسط.

قدمت وزارة البيئة، بالتعاون مع برنامج الأمم المتحدة الإنمائي ومركز ريزو التابع لبرنامج الأمم المتحدة للبيئة تقريراً تقييمياً للاحتياجات التكنولوجية، وهي المبادرة الوحيدة من نوعها في المنطقة. يلقي التقرير الضوء على الفوائد الاقتصادية والاجتماعية للتخفيف من آثار تغير المناخ، ولا سيما في قطاعات الطاقة والنقل التي تمثل أكثر من 75٪ من انبعاثات غازات الدفيئة الوطنية والتي تشكل مشكلة بيئية اجتماعية واقتصادية أساسية في البلاد:

- ان زيادة حصة الطاقة المتجددة في مزيج الطاقة اللبناني بإمكانه أن يخفّض 1720 مليون طن من ثاني أكسيد الكربون أو 10٪ من الانبعاثات الوطنية، وأن يقدم وفراً في الميزانية الوطنية قد يصل إلى 601 مليون دولار.

- ان توسّع سوق السيارات fuel efficient cars التي تقدّم وقرأ في الوقود، وكذلك توسّع سوق السيارات الهجينة، إضافة إلى إنشاء نظام موثوق لوسائل النقل العام يمكن أن يؤدي إلى تخفيض يصل إلى 80% من انبعاثات ثاني أكسيد الكربون على مستوى وسائل النقل ويخفّض التكلفة من 30 إلى 80% على المستخدمين والحكومة.

إن تقرير تقييم احتياجات التكنولوجيا يؤكد على الفوائد الاجتماعية والاقتصادية الرئيسية لتكثيف القطاعات الأكثر ضعفاً مثل قطاعي الزراعة والمياه لتأثيرات تغير المناخ كالتالي:

- الانتقال إلى زراعة المحافظة، أي المزروعات المقاومة للحر والمياه واعتماد الممارسات الزراعية الجيدة يزيد من الإيرادات الزراعية بنسبة 119 مليون دولار في السنة

- يمكن زيادة إمدادات المياه من خلال جمع مياه الأمطار من الاسطح ومن الطرق الزراعية إضافة إلى إنشاء جمعية للمستخدمين لإدارة المياه المشتركة. الأمر هذا يؤدي إلى زيادة الإيرادات الزراعية بنسبة 4 مليون دولار سنوياً.

بناء على هذه النتائج والنتائج التي توصلنا إليها في الدراسات السابقة، أعدت الوزارة خطة عمل لهذا العام في ظل تغير المناخ. إننا نعلن اليوم عن إطلاق 3 مشاريع جديدة سيتم تنفيذها على مدى السنوات الثلاث المقبلة: برنامج بناء القدرات من أجل خفض الانبعاثات، ووحدة تنسيق تغير المناخ، ومشروع اعداد التقرير الوطني الثالث. لن تهدف هذه البرامج فقط إلى تلبية لبنان لالتزاماته كدولة موقعة على اتفاقية الأمم المتحدة الإطارية بشأن تغير المناخ، ولكنها سوف تضع أيضاً الخطوط الرئيسية لجميع المبادرات الخاصة بالانبعاثات وتأثيرات تغير المناخ التي يقوم بها في لبنان، وتؤسس لإنشاء أول منتدى وطني لتنسيق ودعم عمل الوزارات الشقيقة بكل فعالية، والمؤسسات الحكومية والقطاع الخاص والمنظمات غير الحكومية. وتعمل آلية التنسيق هذه تحت مظلة المجلس الوطني للبيئة الذي أنشئ مؤخراً.

إننا في وزارة البيئة نعول على دعم وتعاون جميع شركائنا من الوزارات والمنظمات الدولية والجهات المانحة والمؤسسات الأكاديمية لإيصال هذه القضية إلى المستوى المطلوب الذي يضعها على الأجندة الوطنية.

إن التزامنا لضمان بيئة آمنة ونظيفة وصحية يترافقمع عزمنا وإصرارنا على ضمان تحقيق نمو اقتصادي مستدام.

إن مواجهة تغير المناخ هو التحدي المشترك لنا جميعاً. قد يكون التعاطي مع هذا الحدث فرصتنا للعمل سوية يداً بيد، حيث تصبح المعالجة مسؤوليتنا المشتركة.

شكراً لحسن استماعكم.

Annex IV- Press Release

Press Release

Achievements and progress of climate change projects at the Ministry of Environment

Phoenicia Intercontinental hotel – March 11, 2013

Beirut, March 11 - The Ministry of Environment in partnership with the United National Development Programme launched today a new series of climate change projects as part of the “Achievements and progress of climate change projects at the Ministry of Environment” event at the Phoenicia Intercontinental Hotel, Beirut

The projects launching was graced by H.E. Mr. Nazem EL Khoury, Minister of Environment and H.E. Mr. Robert Watkins, UNDP Resident Representative in the presence of, ambassadors, high ranking government representatives,, and representatives of international organizations and NGOs.

Mr. Watkins opened the ceremony by emphasizing on the work of UNDP with the Government of Lebanon to “promote integrated policy making linking economic growth, environmental management and social equity as functions of each other”, adding that UNDP’s partnership with the Ministry of Environment dates to more than a decade, with climate change in particular being a priority.

In his opening remark, Minister Khoury emphasized that “The Ministry of Environment has been very active during the last years dealing with climate change, not only at a national level but also at the regional and global level”, adding “We have indeed been pioneers in implementing unique projects in the region, and Beirut is being designated as the headquarters for many regional projects related climate change”.

The main role of the Ministry of Environment in the implementation of climate change projects is the “mainstreaming of the results, action plans and recommendations of studies to all ministries and concerned parties to make sure that climate change is indeed taken into account in their planning process”, as explained by Ms. Rola El-Sheikh, the Head of the Service of Environmental Technology at the Ministry of Environment and the climate change focal point. Ms. El-Sheikh also emphasized on the importance of the role of the newly established National Council for the Environment in complementing the work of the Ministry and in bringing a multi-sectoral and multi-disciplinary dimension to climate change.

The event encompassed the launch of three new projects to “complement other implemented projects at UNDP and the Ministry of Environment and sustain the national momentum of climate change, as introduced Mr. Vahakn Kabakian, the UNDP Climate Change portfolio manager at the Ministry of Environment.

The “Lebanon’s Low Emission Capacity Building project”, funded by the European Commission, the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) and the Australian Government through UNDP headquarters, will guide decision-makers on the most suitable options that simultaneously reduce carbon emissions while ensuring economic growth and will move forward the Nationally Appropriate Mitigation Actions (NAMAs) programme in Lebanon.

The “Third National Communication to the UNFCCC”, funded by the Global Environment Facility will meet Lebanon’s commitment to the UN Framework Convention on Climate change as it will update Lebanon’s greenhouse gas emission inventory and its vulnerability adverse impacts of climate change and will propose appropriate mitigation and adaptation measures.

The “National Action Programme to Mainstream Climate Change into Lebanon's Development Agenda”, funded by the Spanish Government through Lebanon Recovery Fund will establish the long awaited Climate Change Coordination Unit to strengthen the communication and cooperation between the different ministries, institutions, the private sector, academia and grassroot organisations on climate change.

These projects will “set the baseline in terms of emissions and vulnerability for all climate change initiatives undertaken in Lebanon” said Minister Houry, adding that they will create “the first national platform to efficiently coordinate, support the work of sister ministries, governmental institutions, private sector and NGOs in climate change”.

In addition, the event included the dissemination of the results of the Technology Needs Assessment project, which was implemented by the Ministry of environment, in cooperation with UNDP, the UNEP Risoe Center and the Global Environment Facility. The project, which is the only initiative of its kind in the region, highlighted the economic and social benefits of reducing emissions and adapting to the impacts of climate change by identifying priority technologies and proposing detailed and concrete actions plans for expanding the market for clean technologies.

The Technology Needs Assessment report clearly showed that an increase in the share of renewable energy in the Lebanese energy mix can “reduce 1,720 Million tons of CO₂ eq or 10% of our national emissions and save up to 601 Million USD from the national budget” as explained by Mrs. Lea Kai Aboujaoude, the project’s coordinator, further elaborating that using fuel efficient vehicles, hybrid cars and public buses can reduce up to 80% of the CO₂ emissions caused from transport and cost 30 to 80% less on both the passenger and the Government.

The study also revealed that adapting Lebanon’s environmental, social and economic systems to the potential risks of climate change can not only increase the national resilience in the face of extreme events but can also preserve livelihoods of vulnerable communities, increase water availability, improve the management of natural resources and increase agricultural revenues by up to 123 million USD per year.