



Mid-Term Work Plan

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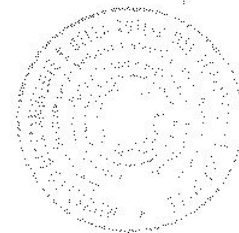
**CO-OPERATION IN THE FIELD OF
SUSTAINABLE DEVELOPMENT COOPERATION**

Between

**THE MINISTRY FOR THE ENVIRONMENT, LAND AND SEA
OF THE REPUBLIC OF ITALY (IMELS)**

and

LEBANESE CENTER FOR ENERGY CONSERVATION (LCEC)



Following the Technical Agreement (TA) signed between the Lebanese Center for Energy Conservation (LCEC) and the Italian Minister of environment on July 7, 2016 in Rome, article 3, the Parties agree to implement a "Medium-term Work Plan, including projects and activities, as applicable".

Objectives

The objectives of the present Medium-term Work Plan have to be identified and selected along with planned activities and projects, that correspond to the general objective of the TA, to support the implementation of environmental protection and sustainable development in Lebanon.

In accordance with the aforementioned TA, in the course of the implementation of the projects and activities, consideration will be given to the participation of the public, private and non-profit sectors and, where appropriate, Universities, scientific and technical research bodies and Non-governmental Organizations, as well as Institutions coming from Italy and Lebanon.

In accordance with article 3 of the TA, this Medium-term Work Plan aims to make a substantial contribution to the implementation of mitigation measures to properly address and manage the current and future impacts of climate change in Lebanon.

The parties convene that the Medium-term Work Plan will focus on the following sectors:

1. **Mitigation measures and policy Support** - Promotion of policy and regulatory measures through the support in the implementation of specific measures within the "National Energy Efficiency Action Plan (NEEAP)", the "National Renewable Energy Action Plan (NREAP)" and the "Intended Nationally Determined Contribution (INDC)" aiming at reducing the greenhouse gas emissions related to the Lebanese energy

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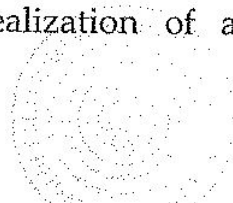
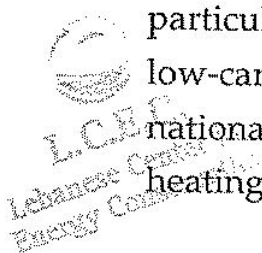
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sector, including the regulatory framework for the integration of renewable energy to the national grid

2. Mitigation measures and technology transfer - Promotion of renewable energy and energy efficiency measures through the implementation of joint demonstration projects aiming at the environmentally sound technology transfer and capacity building in the field of low-carbon technologies, and through technical analysis of the integration of renewable energies to the national grid
3. Mitigation measures and Innovative financial market schemes - Strengthening of the green financial system already existing in Lebanon such as the "National Energy Efficiency and Renewable Energy Action" (NEEREA financing mechanism) initiated by the Central Bank of Lebanon, in order to support investment in the renewable energies and energy efficiency technologies

The activities under programs 1, 2 and 3 will be implemented through the following measures:

- a. Technical Assistance, know-how and technology transfer aimed at introducing new renewable energy technologies or strengthening the markets for established renewable energy and energy efficiency technologies, including:
 - i. the introduction of appropriate measures that ensure both the quality in design and installation of low-carbon technologies for heating and cooling and the quality of products on the market (in particular; Design and construction of a national test laboratory for low-carbon technologies for heating and cooling; Creation of national standards for testing of low-carbon technologies for heating and cooling; Realization of an energy performance



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monitoring program for low-carbon technologies for heating and cooling)

- ii. the development of national standards and testing for efficient lighting including technical guidelines and specifications for public street lighting for different types of roads to ensure high quality, increased safety, great energy performance and low emissions
- iii. Design and implementation of a national solar photovoltaic testing laboratory, as advised in the MED-DESIRE project, to strengthen the market and ensure high reliability of the installed systems
- iv. Analysis of the technical and regulatory frameworks for the integration of renewable energies and low-carbon technologies to the national grid

b. Implementation of support financial schemes that:

- i. demonstrate the economic and environmental feasibility of low-carbon technologies for heating and cooling through pilot applications in Lebanese buildings (for residential and tertiary sectors mainly), with the involvement of the "National Energy Efficiency and Renewable Energy Action" (NEEREA) (in particular: Provision of financial incentives such as a mix of soft loan and grant for the realization of installations of low-carbon technologies for heating and cooling in buildings)
- ii. facilitate access of local authorities to energy efficiency and renewable energy markets through the implementation of the financing mechanism initiated by the MED-DESIRE project (in particular: Provision of rotating financial guarantees for loans by local authorities to implement low-carbon energy projects)

c. Dissemination activities in Lebanon and Italy in order to promote, among the different stakeholders coming from the public and private sectors:

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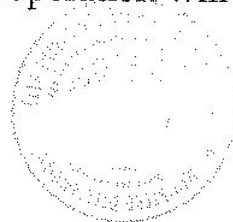
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- i. the implementation of low-carbon technologies for heating and cooling in Lebanese residential and tertiary sectors buildings (in particular: Elaboration and dissemination of guidelines for design and installation of low-carbon technologies for heating and cooling in Lebanese buildings; Dissemination of the monitoring data collected to the Italian and Lebanese manufacturers of low-carbon technologies for heating and cooling)
- ii. the implementation of low-carbon policies at the local level including solar ordinances, energy efficient public street lighting, collective solar photovoltaic systems and access to financing (in particular: Communication around solar ordinances at the central level; Communication around the financial instrument for local authorities; Dissemination of guidelines for Public Street Lighting; Dissemination activities on national standards and testing requirements for solar photovoltaic systems)
- iii. promote and support the participation of selected Italian and Lebanese companies operating in the field of low-carbon technologies in both countries, in exhibitions, conferences, forums and study visits aiming at the creation of new business co-operations and enhancement of sustainable markets

To activate such a Mid-term work-plan the LCEC will internally advocate to avail tangible contributions in the implementation phase from all Lebanese stakeholders (such as Lebanese Ministry of Energy and Water, Central Bank of Lebanon, LIBNOR - Lebanese Standards Institution...), including all other Institutions that could be involved.

In addition to the options listed above, independently on the activities to be implemented, the whole bilateral cooperation will include capacity building schemes.

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Energy Cooperation



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Entry into force

This Mid Term Work Plan will come into force after signature by the Parties.

This Work Programme is agreed and signed in Beirut on July, 28th 2016 in English.

**For the Ministry for the Environment,
Land and Sea of the Republic of Italy**

**For the Lebanese Center for Energy
Conservation**

Director General

President/Director General

Francesco La Camera

Pierre El Khoury

