



MEDIUM TERM WORK PLAN

on

**COOPERATION IN THE FIELD OF CLIMATE CHANGE
VULNERABILITY, RISK ASSESSMENT, ADAPTATION AND
MITIGATION**

between

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

and

**THE MINISTRY OF ENVIRONMENT, NATURAL RESOURCES AND
PHYSICAL DEVELOPMENT OF THE REPUBLIC OF SUDAN**

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Following the Memorandum of Understanding (MOU) signed in Marrakech, on November 17th, 2016, between the Ministry for the Environment, Land and Sea of the Republic of Italy and the Ministry of Environment, Natural Resources and Physical Development of the Republic of Sudan, the Signatories agree to implement the following medium term Work Plan (WP).

Objectives

The objectives of the present medium term Work Plan are to identify and select activities and projects, which correspond to the general objectives of the MoU, that are:

- to strengthen and coordinate efforts to combat global climate change and address its adverse effects;
- to support mechanisms for regional climate change vulnerability and risk assessment;
- to promote secure, clean and efficient energy;
- to stimulate the transition towards a sustainable low-carbon Development;
- to implement adaptation actions and opportunities to protect the environment and natural resources.

The intention is to make a substantial contribution to the implementation of both adaptation and mitigation actions, to properly address and manage the current and future impacts of climate change in Sudan.

Description of Activities

In accordance with Article 5.2 of the aforementioned MoU, in the course of the implementation of the programs, projects and activities, consideration will be given to the participation of the public, private and non-profit sectors, including, where appropriate, universities, scientific and technical research bodies and non-governmental organizations, as well as institutions on both sides.

Following Article 2 of the MoU, and taking into account the indications provided by the Intended Nationally Determined Contributions (INDCs) submitted on September 2015 by the Republic of Sudan, this WP aims to focus on the following areas of interest:

1. Energy sector: development of renewable energies and integration into the power system;
2. Water sector: promotion of water treatment and sustainable integrated management of water resources;
3. Waste sector: promotion of proper waste collection and treatment in urban areas, with the objective of treating the whole generated waste and ensuring that no waste is sent to the landfill;

4. Capacity building and Pilot projects: the activity will support capacity building and the selection of a long-term pilot projects in order to assess the applicability and the effectiveness of the strategies taken into account.

1. Energy sector

The aim is to promote and develop renewable energies and associated technologies, in order to achieve a concrete step for the transition towards renewables and facilitate the attainment of the target for greenhouse gas emissions reduction.

To this end, cooperation will be focused on the following possible activities:

- implementing policies and legal framework within the renewable energy sector, with the objective of reaching the target established by the government of Sudan of 20% of renewable energy by 2030;
- mapping renewable energy potential of the country (solar, wind, geothermal, biomass, etc.), identifying suitable locations for installations and estimating potential capacity;
- integrating renewable energy sources in the national power system;
- promoting the exploitation of renewable energy sources on small scale, also off grid, in order to power rural areas, with particular reference to solar power;
- improving the energy efficiency and efficiency of the power system through measures to reduce transmissions and distribution losses.

2. Water sector

The goal is to achieve a sustainable management of all water sources, including across-the-border and coastal waters.

To this end, cooperation will be focused on the following possible activities:

- improving the water harvesting system, including water abstraction, desalinization and rainwater collection;
- strengthening the irrigation system to minimize distribution losses;
- promoting the treatment and recycling of waste water and reinforcing the sewing system;
- assisting the most vulnerable communities to adapt and build their resilience, in order to face the increasing vulnerabilities of their water resources;
- creating an integrated framework for the management of all water sources, including across-the-border and coastal waters, in order to meet current and future needs.

3. Waste sector

The aim is to increase the sustainability of waste management at all levels, from collection to reuse, recycling, other recovery and safe disposal, providing a significant

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contribution to the national strategy for the treatment of the whole generated waste and the phase-out of landfilling.

To this end, cooperation will be focused on the following possible activities:

- enhancing the regulatory framework in order to promote the reuse, recycling, recovery and disposal of waste, with a special emphasis on solid wastes, to allow the gradual elimination of landfills and to reduce GHG emissions.
- enhancing the proper collection and management of municipal waste, especially medical waste.

4. Capacity Building and Pilot Projects

The aim of this cross cutting activity is to strengthen the national technical capacity of MENRPD member staff in environmental management, and strengthen the effectively capacity in dealing with environmental concerns and risks resulting from global climate change in different field in particular:

- the promotion of renewable energy, the sustainable management of water resources, and the waste sector also trough the integration of 'Nexus' approach in order to redefine the "value chain Water-Energy-Food;
- supporting the Monitoring, Reporting and Verification (MRV) systems and the capacity to communicate annual advance achieved, concerning the Nationally Determined Contributions (NDCs).

Implementation

Each funded activity will include a budget for missions and travels, that will cover also travel expenses of both sides experts and officials, according to the UN regulations.

Entry into force

This Work Plan will come into force after signature by the Signatories.

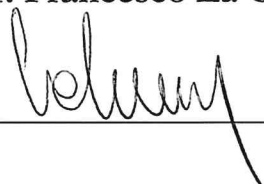
This Work Plan is agreed and signed in Bonn on May 16th 2017.

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

**For the Ministry of Environment,
Natural Resources and Physical
Development of the Republic of Sudan**

Director General

Mr. Francesco La Camera



Director General

Mrs. Hana Hamadalla

