

Strengthening Air and Climate Pollution Management in Cambodia

Implemented by Department of Air Quality and Noise Management
(DAQNM), Ministry of Environment (MoE)

CCCA3



National Council for Sustainable Development
General Secretariat
Department of Climate Change



Ministry of Environment

Background

There are several factors contributing to the degradation of air quality in Cambodia including vehicle emissions, road dust, industry, agriculture and power generation ect. Furthermore, it is observed that there is tendency of increasing the level of air and climate pollution in the atmosphere, while the responsible organization has insufficient monitoring equipment to monitor SLCP and air pollution from coal power plant, cement factory and other stationary sources; and lack of data platform for air quality monitoring and related data management capacities. To deal with those challenges, the Department of Air Quality and Noise Management (DAQNM), General Directorate of Environmental Protection (GDEP), Ministry of Environment (MoE) has proposed this project, which aims to enhance monitoring and management of air and climate pollution by increasing the capacity of DAQNM and provincial departments of MoE and improving inter-ministerial cooperation on policy related activities.



Overall Objective

The proposed project aims to enhance monitoring and management of air and climate pollution by increasing the capacity of DAQNM and provincial departments of MoE and improving inter-ministerial cooperation on policy related activities.

Specific Objectives

1. Developing an updated sub-decree on Air Pollution Control, Noise and Vibration Management under the coordination of DAQNM;
2. Setting up a data platform on air quality monitoring and training DAQNM officer for using air quality monitoring system; and
3. Piloting monitoring of Carbon dioxide and the short-lived climate pollutants (SLCP) - mainly black carbon and air pollution from stationary sources and strengthening capacities on air quality management plan and reduction of SLCP emissions at national and sub-national level.

Approach

- Current sub decree is not appropriated for the current social and economic development and the environmental pollution. Moreover, the emission standard, ambient air quality standard (example PM10 and PM2.5) and related technical guidelines are not included in the current sub decree. Therefore, National and international technical experts will develop new sub decree on Air Pollution Control, Noise and Vibration Management along with developing related Standards to leverage the effectiveness in implementing the new sub decree, including SLCP.

• In Cambodia, coal power plants and cement factories are one of the major sources of air pollution and are also a main contributor to GHG emission. To address these issues, there is a need for acquiring the air quality equipment to monitor air pollution emission from these sources, including SLCP. DAQNM will pilot monitoring activities with a small number of private sector entities operating major stationary sources of emissions (coal power plants, cement factories and others);

• Air Quality Monitoring Data Platform will be established and training for official from DAQNM and from Provincial Department of Environment will be offered. This is the new activities of air quality management in Cambodia. The results from this activities public and stakeholders can get more information on air quality in Cambodia.

Outputs and Key Activities

Result	Key Activities
Developing Sub decree on Air Pollution Control, Noise and Vibration Management and related Standards	<ul style="list-style-type: none"> • Recruiting international and national consultant for developing the sub decree and related guidelines • Conducting workshop for 4 times to collect inputs from stakeholders for establishing the sub decree • Publishing the new sub decree and related Standards
Obtaining air quality monitoring equipment for monitoring SLCP and air pollution and setting up data platform of air quality monitoring	<ul style="list-style-type: none"> • Purchasing air quality monitoring equipment for monitoring air pollution • Purchasing black carbon analyzer • Setting up data platform of air quality monitoring
National and provincial officials have the necessary knowledge on using air quality monitoring equipment and running data platform	<ul style="list-style-type: none"> • Conducting trainings on operating the air quality monitoring equipment and using and managing data platform
Increasing emission control of coal power plants, cement industry and other stationary pollution sources	<ul style="list-style-type: none"> • Conducting pilot projects on emissions control from two coal power plants in Sihanoukville Province and cement factories in Kampot Province and other stationary pollution sources at other provinces in the scope of the project sites (Phnom Penh Municipality, Kandal, Kampong Speu, Siem Reap, Battambang, Utdor Meanchey, Kampong Cham Provinces.) focusing on air pollution parameter including PM10, PM2.5 TSP, SOx, NOx, O3, Pb and SLCP (mainly black carbon) • Conducting meeting and follow-up visits
Increasing capacity on SLCP mitigation among government and provincial officials involved in the project	<ul style="list-style-type: none"> • Recruiting resources person to conduct capacity building on SLCP mitigation to provincial and government officials • Conducting training courses on SLCP mitigation to officials at national and sub national levels

Knowledge Products

- Sub decree on Air Pollution Control, Noise and Vibration Management and related guidelines
- Air quality monitoring equipment for monitoring SLCP
- Training materials and communication products

Timeframe	November 2020 to November 2022	Partners	N/A
Total Budget	Total Budget: 216,679US\$ CCCA: 184,999US\$ Co-financing (in cash or in-kind) 31,680 US\$	Location	Phnom Penh

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