

# ASSESSMENT STUDY OF CARBON CAPTURE AND STORAGE (CCS) POTENTIAL AND CAPACITY BUILDING IN EGYPT, 2013

The World Bank Group (WBG) has been providing assistance to its partner countries on carbon capture capacity building since 2009, with the objectives of: supporting strengthening capacity and knowledge sharing; creating opportunities for partner countries; exploring Carbon Capture and Storage (CCS) capacity, and facilitating its inclusion in strategies and policies developed by national institutions. In this context, WBG commissioned the consortium composed of Environmental Resources Management (ERM), Carbon Counts (UK), and Environics to carry out a study for the assessment of CCS potential and capacity building in Egypt.

The consortium cooperated to produce the study, which was divided into three tasks to meet its objectives. The tasks were as follows:

- Task 1: Technical and economic assessment of CCS potential in Egypt.
- Task 2: Analysis of barriers and steps to overcome them.
- Task 3: Capacity building.

Task 1 followed the overall approach of conducting a thorough quantitative assessment of CCS potential in Egypt allowing for a small number of candidate pilot-scale projects to be identified. This task comprised: assessing the applicability of carbon capture in Egypt; assessing CO<sub>2</sub>-Enhanced Oil Recovery (EOR) potential; economic analysis of CCS project options, and project prioritisation and recommendations.

Task 2 built on international CCS experience relating to developing countries, and incorporated inputs and outcomes from the stakeholder engagement meetings. This task investigated six categories of barriers, namely: legal and regulatory; technical; policy; social; institutional, and economic.

Task 3 proposed actions that aimed at bringing Egyptian institutions to a level at which they can operate effectively in an integrated CCS value chain, and enhance their capacities to implement a future CCS national plan. This task:

- Outlined capacity building needs based on the requirements of CCS technology and practice,
- Discussed relevant issues and proposed capacity building related actions to move CCS forward, and
- Focused on priority capacity needs to take such actions based on priorities revealed through the consultant team's analysis, or directly by representatives of stakeholder institutions.