

# Capacity Development for the Implementation of a Monitoring, Reporting and Verification System for Greenhouse Gas Emissions Project

## PROJECT DESCRIPTION

**Commissioned by:** German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety, within the context of the International Climate Initiative

**Partner Ministry:** Ministry of Environment and Urbanization of the Republic of Turkey

**Implemented by:** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

**Overall term:** 2013 to 2018

## PROJECT CONTEXT

The overall objective of this project is to establish the whole infrastructure of a monitoring, reporting and verification system (MRV) for the greenhouse gas (GHG) emissions of the Turkish industry on a basis of a regulatory framework, largely based on EU guidelines, which has been adopted in 2012. This MRV system will deliver robust data of the Turkish GHG emissions which can be used as a base for future mitigation activities such as the implementation of an emission trade system (ETS) and other policies. The project helps mainstream educational and training seminars on MRV of GHG emissions through the training center KAREM, which has been established under the roof of the Turkey Environmental Protection Foundation (TÜÇEV).

In addition, the project provides knowledge to the experts within the Ministry of Environment and Urbanization of the Republic of Turkey to manage and further develop the entire MRV system. The

Turkish MRV system will also serve as a good example in the region, for this purpose knowledge transfer on building up a proper MRV system will be provided mainly within the member countries of the Economic Cooperation Organization (ECO) and Partnership for Market Readiness (PMR).

## Outcomes

- In cooperation with MoEU, the first step has been made towards implementing an MRV system. In the first years of the project, sector-specific training seminars with around 1000 participants were conducted for the installations required to submit their monitoring plans and annual emissions reports. These participants now have the competency to develop their monitoring plans and annual emissions reports. This is an important step on the road towards GHG emissions reporting within the context of the national MRV system.
- The project helps mainstream these training measures through the Carbon Management Training Center of Turkey (KAREM). Within this context, training of trainers to provide training support, development of training modules and realization of trainings on ETS for installation operators including; GHG monitoring and reporting, market mechanisms, verification processes, carbon footprint calculation are planned as a part of future activities.
- A web-based data management system to enable the operators to submit their monitoring plans and verified annual emission reports has been developed based on the Turkish MRV regulatory framework. Several documents (Monitoring Plan Guideline, Annual Emissions Reporting Guideline, Verification Guideline, Sectoral Calculation Examples, and System Manual on Electronic Monitoring Plan and System Manual on Electronic Annual Emissions Report) have been drafted and published to provide guidance for the operators of industrial installations.
- Within the project, several awareness raising events targeting project stakeholders, public institutions and sector representatives have also been realized. Furthermore, as a post-COP 21 Paris Agreement activity, a high level international panel "From Paris to Antalya - New Climate Change Regime" has been organized on the 11th of May 2016 in Ankara to provide a

discussion platform regarding Paris Agreement and necessary actions for its effective implementation. It is also foreseen to continue to increase public awareness of public actors, civil society and NGOs on Paris Agreement and Intended Nationally Determined Contribution via conferences and seminars.

- A web-site (<http://www.carbon-turkey.org>) has been launched to increase awareness and knowledge via providing easy access to guidelines and implemented project activities; upcoming events, news and updates are also announced via this web-site to draw public's attention.
- An International Summer School on "The Implementation and Enhancement of MRV System for GHGs and ETS" which hosted experts from public institutions and organizations who work on greenhouse gas emissions and relevant topics from Afghanistan, Azerbaijan, Tajikistan, Morocco, South Africa, Iran, Turkish Republic Northern Cyprus, Pakistan, Tunisia and Ukraine has been realized in İzmir between 26th of September and 1st of October 2016. The Summer School aimed to link the domestic work of MRV practitioners with international experts and allow representatives from developing and developed countries to exchange experiences and elaborate on their own approaches.
- Moreover, as a part of future activities of the project, supporting KAREM to create a trainer pool via "training of trainers" events and capacity development of the personnel of Reference Laboratory of MoEU are projected. It is furthermore foreseen to expand the MRV impact area in Turkey with a study on new sectors to be included into the MRV system whilst also disseminating the experience in establishing an MRV system within the ECO region and the PMR. Finally, capacity building towards ETS for stakeholders via preparation of training modules, handouts, and seminars on ETS in Turkey for the Turkish industry is foreseen to be achieved until the completion of the project.



## OBJECTIVES OF THE PROJECT

Five specific project objectives have been identified as:

1. MoEU collects information on and manages GHG emissions using a data management system.
2. Sector-specific MRV guidelines for emissions-producing branches of industry and additional legal frameworks for MRV are implemented.
3. Relevant actors take responsibility for the sectoral MRV system processes.
4. Contributions are made to policies on GHG mitigation measures.
5. Dissemination of experience on developing an MRV system to other countries.

### Approach

As part of the project, staff working in public institutions and the industrial sectors are provided with educational and training seminars on monitoring, reporting and verification on GHG emissions. Sector specific guidelines are being developed for the operators of industrial plants. This approach ensures that any reservations the industrial sector may have concerning the introduction of an MRV system are taken into account from the beginning.

In addition, the project gives relevant staff within MoEU the skills needed to manage and further develop the entire MRV system for Turkey, and in addition to this, the Ministry receives information on all MRV-related topics and any associated issues; for instance emissions trading.

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## Capacity development for the implementation of a monitoring, reporting and verification (MRV) system for greenhouse gas emissions



On behalf of:



Federal Ministry  
for the Environment, Nature Conservation,  
Building and Nuclear Safety

**giz** Deutsche Gesellschaft  
für Internationale  
Zusammenarbeit (GIZ) GmbH

of the Federal Republic of Germany

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