

Quarterly Progress Report N°07



EUROPEAN COMMISSION

TWINNING PROJECTS INTERIM QUARTERLY REPORT

Project Title: Improving Emissions Control

TR 2008/IB/EN/02

Partners: Umweltbundesamt (Environment Agency Austria)
and
Ministry of Environment and Urbanisation,
Turkey

Date: January 2013

1. Overview

The **Interim Quarterly Report/Final Report** for the project comprises the following parts:

- Section 1** Basic data of the project
Section 2 Report about progress achieved during the reporting period and plans for the follow-up period
Section 3 Expenditure: Actual expenditure in relation to budgeted expenditure

2. General guidance

- Throughout the entire Twinning project, at **three-monthly intervals** starting with the date of notification of endorsement / signature, the Project leaders may prepare Interim Quarterly Reports/Final Reports.
- Interim Quarterly Reports/Final Reports cover both substance and Finances.
- The deadline for submission of the **Interim Quarterly Reports/Final Reports** cannot be altered – The first interim quarterly report will most often refer to less than three months' actual project implementation, since the arrival of the RTA in the BC and the beginning of the work schedule rarely coincide with the date of notification.
- The MS Project Leader in co-operation with the BC Project Leader will submit, within the month following each quarter, the interim quarterly reports to the concerned authority (see 6.4 of the Twinning manual).
- **One copy of the Report** must be sent at the same moment to the relevant Twinning Team in the Commission Headquarters.
- The Report must be submitted in one of the **following three languages: English, French and/or German**.

3. Notice

- The approval of the **Report** by the relevant authorities is without prejudice to the Commission's right to suspend the activities of a project, terminate an agreement or take any other appropriate step should subsequent verifications reveal problems or significant divergences from the work plan, the budget or the conditions of the Twinning Contract as approved.
- The views expressed in this report do not necessarily reflect the views of the European Commission.

GLOSSARY OF ACRONYMS

AQ	Air Quality
CEIP	Centre on Emission Inventories and Projections
CFCU	Central Finance and Contracts Unit
CoBoard	Air Emissions - Coordination Board
CollectER	Software system for air emission inventories
COPERT	COmputer Programme to calculate Emissions from Road Transport
CLRTAP	Convention on Long Range Transboundary Air Pollution
EARM	Emission Abatement Roadmap
EEA	European Environment Agency
EIONET	European Environment Information and Observation Network
EMEP	European Monitoring and Evaluation Programme
EU	European Union
IPPC	Integrated Pollution Prevention and Control
MoENR	Turkish Ministry of Energy and Natural Resources
MoEU	Turkish Ministry of Environment and Urbanisation
MoSIT	Turkish Ministry of Science, Industry and Technology
MoTMC	Turkish Ministry of Transport, Maritime Affairs and Communications
NCCAP	National Climate Change Action Plan
NECD	National Emission Ceilings Directive
NMVOCS	Non-Methane Volatile Organic Compounds
PaMs	Policies and Measures
POPs	Persistent Organic Pollutants
QA/QC	Quality Assurance/Quality Control
SAP	Strategic Action Plan
STE	Short Term Expert
SYKE	Finnish Environment Institute
TA	Technical Assistance
ToR	Terms of Reference
TurkStat	Turkish Statistical Institute
TW	Twinning
UBA	Umweltbundesamt (Environment Agency Austria)
UNECE	United Nations Economic Commission for Europe
UNFCCC	United Nations Framework Convention on Climate Change

Executive Summary

Deputy General Director, Mr. Muhammet ECEL, has become the new beneficiary Project Leader (notification to Addendum no.04 as of 7th December 2012).

This report summarises all activities carried out in the seventh quarter of the Twinning Project (25 Oct 2012 to 24 Jan2013). Thirteen missions were undertaken by STEs covering activities in all the four components. These required 76 person-days' work in Turkey. Some experts covered multiple activities within a single mission.

Highlights of progress made until 24th January 2013 include:

- a) Completion of two Benchmarks: (1) B3.1.1 on the draft Strategic Action Plan, (2) B3.2.1 on the draft Emission Abatement Roadmap;
- b) Completion of the second part of Benchmark B2.1.3, "Guidance on the compilation of the national air emissions inventory";
- c) Follow-up Training on estimating emissions from road transport (COPERT application);
- d) Draft legislation ("roles and responsibilities") on data flow and exchange of information between institutions to meet obligations arising from the CLRTAP/EMEP Protocol;
- e) Drafts of policies and measures for sectors agriculture, energy and industry, residential/commercial combustion and waste;
- f) Revision of the Project website; new domain: www.csb.gov.tr/projeler/nec
- g) Elaboration and approval of two side letters required to nominate STEs for certain activities and to reallocate the budget accordingly;
- h) Notification of Addendum no. 04 on the replacement of the beneficiary project leader by Mr. Muhammet ECEL.

Cumulated expenditure reached 67% of the budgeted expenditure for missions undertaken. The expenditure compilation is in Annex 14 of this report.

The work plan, included under item 2D - TIMING AND DELAYS of this report, shows no delay. Planned expert missions for the next quarter will cover activities 3.1 and 3.2 and 4.2+4.3.

The Beneficiary asked for an extension period of the Project. Although confirmed by the MS Project Leader this issue will be subject to agreement by the Steering Committee.

The draft progress report was sent to all SC members in advance to the Steering Committee Meeting held on 24th January 2013. Members agreed on holding the next (final) SC Meeting on Thursday, the 6th April 2013. This date may change if the duration of the Project is extended.

Section 1: Project Data

Twinning Contract Number	TR 2008-IB-EN-02
Project Title:	Improving Emissions Control
Twinning Partners (MS and BC)	Umweltbundesamt GmbH (Environment Agency Austria) and Ministry of Environment and Urbanisation, Turkey
Report Number:	07
Period covered by the report:	25 October 2012 to 24 January 2013
Duration of the project:	24 months
Project Leaders:	<u>BC Project Leader:</u> Mr Muhammet ECEL T.R. Ministry of Environment and Urbanisation <u>MS Project Leader:</u> Mr Manfred RITTER Umweltbundesamt GmbH (Environment Agency Austria) <u>Junior MS Project Leader:</u> M.Sc. Kimmo Juhani SILVO Finnish Environment Institute, SYKE
Preparation of the Report:	Dr. Dietmar KOCH (RTA)
NEW Project website	www.csb.gov.tr/projeler/nec

Section 2: Progress and Achievements

This section describes the activities of the project. It is divided into 5 sub sections 2A- 2E.

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Annexes

Note: Considering the Environment, Annexes were not printed but made available electronically. All mission reports and draft papers were reviewed by the MoEU.

Annex 1	MR_Act.1.2_SAUTNER_Oct-Nov2012
Annex 2	MR_Act.2.1_POUPA_Nov2012
Annex 3	MR_Act.2.1+4.2+4.3_MARECKOVA_WANKMUELLER_Nov2012
Annex 4	MR_Act.3.1+3.2_NAGL_Nov2012
Annex 5	MR_Act.3.2_SARKKINEN_Nov2012
Annex 6	MR_Act.2.1+3.2_ANDERL_Nov2012
Annex 7	MR_Act.3.1+3.2_ZECHMEISTER_SAARINEN_STORCH_Dec2012
Annex 8	MR_Act.3.1+3.2_NAGL_Dec2012
Annex 9	MR_Act.3.1_KAMPEL_REBERNIG_Jan2013
Annex 10	MR_Act.4.1_JANTUNEN_Oct-Nov2012
Annex 11	MR_Act.4.1+4.2_ZECHMANN_MOERTH_Jan2013
Annex 12	MR_Act.4.2_KUENEN_Oct-Nov2012
Annex 13	MR_Act.4.2_PÖTSCHER_Dec2012
Annex 14	Q7_Expenditure

Note: The Quarterly Progress Report only covers activities and results of this reporting period.

1 2A – BACKGROUND

1.1 Policy and General Developments

The Prime Minister approved the Circular (Hava Emisyonları Koordinasyon Kurulu), which was published in the official journal of the TR Government on 15th December 2012.

<http://www.resmigazete.gov.tr/eskiler/2012/12/20121215-3.pdf>

About 14 months ago, the Project initiated the first meeting of a committee to coordinate tasks associated with the transposition and implementation of the NECD. This coordination committee (CoCom) meeting was held on 16 December 2011. Follow-up meetings gathered representatives from all institutions involved in the transposition and implementation of the NECD to discuss issues associated with air emissions and international reporting obligations of Turkey.

The Circular on the establishment of an Air Emissions Coordination Board (CoBoard) provided the mandate for the Board to proceed under the leadership of the Ministry of Environment and Urbanisation. Public institutions and organisations shall provide the required support and assistance for conducting the Board's activities in a unified manner, ensuring inter-institutional cooperation and coordination regarding the management of air emissions and implementation of decisions made by the Board.

In early January 2013, the MoEU presented a new structure for the Air Management Department comprising about 25 staff members. It now consists of four divisions. The Division "Air Quality Assessment" headed by Ms Funda FİLİZ has become responsible for the NEC Project and the AQ Project. The number of staff available for inventory work decreased to five.

1.2 Project Assumptions

The assumptions specified for each Activity remained valid.

2 2B - ACHIEVEMENT OF MANDATORY RESULTS

2.1 Benchmarks in the reporting period

The Project achieved the following three Benchmarks:

B1.2.1 This benchmark required updating the “List of international obligations”. The first draft list was prepared in December 2011 by Mr Alec ESTLANDER, former Junior Partner from Finnish Environment Institute SYKE. The update of the list was associated with a review of possible new obligations that may have arisen from Conventions and EU legislation. Two issues were considered to be added. The MoEU is recommended to monitor upcoming obligations and update the list accordingly in the future.

B2.1.3 (Completion of the second part) covered “Guidance on the compilation of the national air emissions inventory”. This document aims to assist the inventory team at MoEU in its effort to generate an annual air emissions inventory considering national peculiarities of Turkey.

B3.1.1 on the draft Strategic Action Plan (SAP) and **B3.2.1** on sectoral draft Emission Abatement Roadmaps (EARM).

The draft SAP is seen as an equivalent document of the NEC programme. It covers the strategy and aggregated actions necessary to reduce emissions of the pollutants, regulated by the NEC Directive. The EARM contains policies and measures and the emissions associated with these in details and by sectors. It describes possible impacts, names the responsible authority and proposes a timetable for the implementation of the measures identified.

Benchmark B3.1.2 “Documentation of consultations carried out during the development of SAP and EARM” could have been completed by M21. However, it would lack information about consultations on issues of the waste sector that can only be held in February 2013. Consultations are associated with expert missions. The Project wishes to consult with working groups to be established by CoBoard in order to discuss findings contained in the SAP and EARM drafts. However, this may be done solely by the Ministry after the Project has ended.

3 2C - ACTIVITIES IN THE REPORTING PERIOD

Activities were undertaken in the reporting period. These required thirteen expert missions ranging from drafting legislation, a strategic action plan and sectoral emission abatement roadmaps, holding a communication workshop to several inventory trainings and seminars for strengthening the capacity of the MoEU. The following chapter briefly summarises all missions. It provides interim results and recommendations. Details of each activity/mission were included in mission reports drafted by STEs.

3.1 All Components

During the reporting period, activities/missions were carried out under all components. Some experts covered multiple activities within a single mission, others carried out joint missions. Reporting of activities was attributed to the component depending on the focus of the mission.

Component 1: One mission to update the list of international obligations and complete benchmark B1.2.1;

Component 2: Two missions under Activity 2.1 on sectoral emission projections;

Component 3: Six missions under Activities 3.1 and 3.2 on drafting policies and measures for each sector, including the completion of the strategic action plan and sectoral emissions abatement roadmaps;

Component 4: Five missions under Component 4 to,

- draft the legislation for the MoEU (B4.1.2),
- train MoEU staff on grid-square data based on the Turkish air emissions inventory, to evaluate progress made with inventory,
- fulfil the MoEU's request for a national system on emissions from road transport,
- hold a communication workshop and discuss the Project's visibility considering the near end of the Project.

Note: Some of these missions were carried out jointly involving more than one STE and/or covering multiple activities. This should be considered when counting the number of missions.

Component 1:

Benchmark B1.2.1 required updating the list of international obligations presented by the Project in January 2011. Mr Martin SAUTNER took over this work and delivered the update shortly after his mission in week 44. He also drafted and presented recommendations for meeting new obligations. One emerged from the revision of UNECE/CLRTAP Gothenburg Protocol another will arise from the NEC Directive being revised by the European Commission.

The mission report drafted by Mr SAUTNER is in Annex 1 of this progress report.

✓ By the end of the 7th quarter, the Project achieved all the six benchmarks of Component 1.

Component 2:

Activity 2.1 Comprehensive training of related personnel of MoEU and Turkish Statistics Institute both in Turkey and in the Member States for the strengthening of personnel capacity and for the preparation of the emission inventories and reporting

In week 47, a mission was undertaken by Mr Stephan POUPA, database manager at the Austrian Environment Agency. The main objectives were to prepare and hold workshops and training with experts from MoEU, Turkstat and the MoENR on the harmonisation of energy data used for emission calculation from fuel combustion, as well as on the improvement of emission estimates of fuel combustion activities. Further objectives of the

workshops were treatment of data confidentiality and publishing of data. A comparison of EUROSTAT energy balance data with data contained in CRF 2010 has been made. During the UNFCCC review, inconsistency of data reported by Turkey with data compiled by the International Energy Authority (IEA) has been detected. The STE proposed to improve data consistency by, for instance, comparing current estimates with data used in the PRIMES energy projections model applied by IIASA. In addition to this, the MoEU is expected to estimate detailed activity data and emission estimates for manufacturing industries' sector in the CRF. The STE proposed to use the Joint Questionnaire data for both the GHG and air pollution inventories. The involvement of the MoENR is indispensable.

More details of this mission can be found in the mission report drafted by Mr POUPA. This is included in Annex 2 of this progress report.

Ms Katarina MARECKOVA undertook a mission comprising of two activities (for activity 4.3, please see component 4 below) in week 48. Her work under Activity 2.1 aimed at achieving benchmark B2.1.3 (second part) by completing the guidance document for the compilation of the Turkish national air emissions inventory covering the NEC pollutants at least. Based on good practice, this document gives guidance on how to estimate, to report and archive the emissions. Parties to the LRTAP Convention (and to UNFCCC) should put in place suitable legal and institutional arrangements and procedures to ensure the annual production of the national inventory in a sustainable manner. This also includes setting up a quality control system (QMS). With contributions from the MoEU, this guidance document shall be used together with sectoral guidance developed by TA project. The MoEU is expected to update the guidance as new information becomes available.

A number of recommendations drawn from Ms MARECKOVA's mission were laid down in the joint mission report (Ms MARECKOVA, for Act.2.1 and 4.3 and Mr WANKMUELLER, for act.4.2), which is in Annex 3 of this progress report. Appendixes include the final draft Guidance document.

✓ *By the end of the 7th quarter, the Project achieved all benchmarks but one (B2.3.2 cannot be completed before the end of the Project) of Component 2.*

Component 3:

Activity 3.1 Preparation of an agreed strategic action plan (SAP) for the achievement of National Emissions Ceilings

and

Activity 3.2 Preparation of an emission abatement roadmap (EARM) for the four pollutants by sectors

As the strategic actions determine abatement roadmaps, missions shall always cover both activities. Dr. Christian NAGL's mission in week 47 aimed at the production of the second drafts of SAP and of EARM by analysing the draft final report by the TA project for findings to be incorporated into the SAP. This included the description of the emissions of NEC pollutants, the relevant sources and emissions projections including the underlying assumptions. Comments delivered by the MoEU on the first drafts clearly gave preference to the scenario with additional measures (WaM) to be respected. The emission management strategies (EMS) developed by the TA Project for the agricultural sector,

transport sector and partly for the energy sector were also considered. The underlying socio-economic assumptions were partly added to Appendix B of the SAP document.

Follow-up missions shall include socio-economic assumptions and the EMS for emissions generated by combustion in residential and commercial areas and strategic issues for the waste sector. The MoEU was expected to comment on the second drafts, which were completed during the follow-up mission in December 2012.

The mission report including the second versions of SAP and EARM drafted by Mr NAGL is in Annex 4 of this progress report. The documentation of consultations carried out during the drafting of SAP and EARMs will be completed in February 2013.

The mission by Mr NAGL was supported by two STEs: Mr Seppo SARKKINEN compiled policies and measures (PaMs) for the transport sector and Mr Michael ANDERL drafted PaMs for the agriculture sector. The PaMs will be fed into sectoral emission abatement roadmaps. Although major technical regulations concerning the transport sector were implemented in Turkey, work is to be sustained in order to curb increasing emissions. Measures included in the NCCAP are vital as they reflect structural problems. Mr SARKKINEN analysed the EU limit values for inland waterway vehicles, which could be introduced to new ships operating in national water areas in Turkey in order to control and reduce NO_x and PM emissions.

The mission report drafted by Mr SARKKINEN is in Annex 5 of this progress report.

The compilation of PaMs for the agriculture sector carried out by Mr ANDERL revealed some inconsistency in the number of animals used by different data holders. It has been recommended to give national data on dairy cattle the highest priority. Data on nitrogen excretion and milk yield need to be included, while animal waste management systems (if available) and national data on fertilizer consumption including fertilizing practices are to be considered to complete the picture on policy options and reduction measures in this sector.

Due to time constraints at the beneficiary side, a seminar on emissions projections and emission-related aspects of air quality modelling prepared by Mr ANDERL could not be held. It has been proposed to hold the seminar in February 2013. Mr ANDERL's mission report is in Annex 6 of this progress report.

The work on drafting the SAP and EARMs continued in weeks 50 and 51. Mr Alexander STORCH and Mr Andreas ZECHMEISTER (Environment Agency Austria) compiled information for the chapter on residential & commercial heating by identifying policies and measures applicable to Turkey. Main sources were the National Clean Air Action Plan (NCAAP, Temiz Hava Eylem Planı), the Clean Air Plan for Bursa (Chapter 8.1.3, page 77ff), NEC Programme from Austria, Clean Air Plan for other Provinces (e.g. Konya, Eskişehir and Ankara) and several studies (e.g. MATRA Project, Air Quality Assessment 2004). It has been recommended to evaluate to what extent local measures should be considered for inclusion in PaMs on national level.

In the same week, Ms Kristina SAARINEN (SYKE, Finland) drafted the SAP chapter on energy & industry. This was based on the guidelines of the WG on Implementation of the Clean Air For Europe (CAFE) Directive and on a Turkish National Study on Energy Efficiency and Renewable Energy. The analysis of a number of other sources (e.g. NECD Scenario analysis by IIASA, Country evaluation by the EEA, Cement Road Map by the International Energy Authority (IEA), Recommendations on developing and reporting national programmes under the NECD) contributed to the drafting of the chapter on energy & industry.

The joint mission report drafted by the STEs is in Annex 7 of this progress report.

Results of these missions were delivered to the MoEU and to component leader Mr NAGL who incorporated them into the draft SAP and EARM documents in week 51. These versions were included in his mission report that is in Annex 8 of this progress report.

Policies and measures for the sector “Waste” including solid waste disposal, wastewater treatment, waste incineration and waste composting were compiled by Ms Elisabeth KAMPEL in week 02 of 2013. EU legislation and common practices of Member States served as source of information for drafting this document. The NCCAP does not contain measures for this sector although Solid Waste Disposal on land generates CH₄ emissions contributing to climate change. Air emissions by pollutants (SO_x, VOC, NO_x and PM) are usually generated at landfills and during solid waste and wastewater treatments. Most solid waste in Turkey is dumped or landfilled and regulated by the Turkish by-law on the general principles of waste management. NH₃ is a result of latrine use. In order to combat these emissions the national sewerage system is to be extended. Incineration is of minor importance as there are only two incineration plants in Turkey. The drafted policies and measures were presented to the waste inventory experts, who will have a further review of these together with the waste management department.

Together with Mr Georg REBERNIG, Managing Director of the Austrian Environment Agency, Ms KAMPEL participated in meetings with the Deputy Undersecretary, Mr KADIOĞLU, the GD Mr BAŞ, the Deputy GD, Mr ECEL (BC Project Leader) and the Head of Division, Ms FİLİZ. The meetings mainly aimed to discuss three issues: (1) Next meeting of CoBoard and the establishment of working groups, (2) Project extension and (3) Study tour to Finland (agreed to be postponed to April 2013). The MoEU is expected to bring forward the first two issues. Details of the meetings were laid down in the mission report jointly prepared by Ms KAMPEL and Mr REBERNIG (see Annex 9). The mission report included the draft PaMs for the Waste sector.

With this, all chapters of SAP and sectoral abatement roadmaps were drafted and comments received from the MoEU incorporated. Mr NAGL and his component team achieved the benchmarks B3.1.1 and 3.2.1 and delivered the final draft reports in January 2013. However, current versions of SAP and EARM suggest carrying out extensive consultations within WGs under the CoBoard. The unavailability of national ceilings for the NEC pollutants inevitably led to certain gaps in the draft SAP. The MoEU is expected to revise the strategy, fill gaps and use the TW results to draft the first “National Air Emissions Action Plan”. The documentation of consultation (B3.1.2 foreseen to be fulfilled in M21) has not been finalised yet as some consultations are still outstanding. Although the main work under Component 3 has been completed, some missions will have to be carried out in order to assist the BC in the further work required. During a possible extension period, missions under Component 3 are required to undertake.

Component 4:

Activity 4.1 Evaluation of the institutional and technical capacity for the implementation of the NEC Directive in Turkey

A mission undertaken by Mr Jorma JANTUNEN in week 44 aimed at drafting a legislation that defines roles and responsibilities of institutions involved in the transposition and implementation of the NECD. Given the fact that several options exist, such as agreement or memorandum of understanding, the Ministry, after its review of the first draft 'model' agreement, recommended revising it by putting focus on "data flow and exchange of information between institutions involved". This shall facilitate the MoEU to fulfil its commitments arising from the CLRTAP/EMEP Protocol.

The second draft legislation will be prepared during a mission in early 2013. For this, the Air Emissions Circular for the establishment of the Coordination Board, the benchmark report, B4.1.2 (on institutions' roles and responsibilities) and the draft 'model' agreement will serve as reference documents.

The mission report by Mr JANTUNEN is in Annex 10 of this progress report.

Ms Ingeborg ZECHMANN supported the mission carried out by Ms Monika MÖRTH who held a communication workshop (c.f. Act. 4.2) in week 04. As Ms ZECHMANN is the press officer of Environment Agency Austria, her mission served to discuss options of informing the public within the frame of the closing event of the Project.

Results of her mission are included in the joint mission report, which is in Annex 11 of this progress report.

Activity 4.2 A comprehensive training programme covering training events both in Turkey and in member states

On request of the MoEU, the Project organised training on the concept of air emissions allocated to grid cells. Gridded emissions data are fed into the GAINS model¹, which is used by the EU or UNECE to derive policy options for emissions (reduction) targets. While the current EMEP grid (50x50 km in polar stereographic projection) might change to a latitude-longitude grid at higher resolution (0.1x0.1 degrees), the reporting obligations for parties to the Convention remain valid. This also applies to Turkey.

Mr Jeroen KUENEN (TNO, The Netherlands Organization for Applied Scientific Research) carried out the training that aimed at enabling Turkish experts to produce grid-square data based on the Turkish air emissions inventory. He also presented the MACC² model applied by TNO for gridded emissions inventories. This uses country specific emissions data and provides for checking consistency of similar approaches. An important part of the training was the identification of surrogates (e.g. population or land use data to serve as proxies) for the spatial disaggregation of sectoral emissions data.

Details of Mr KUENEN's mission were included in a mission report that is in Annex 12 of this progress report.

Due to the complexity of GIS and gridding, MoEU asked the Project for additional training. This was undertaken by Mr. Robert WANKMUELLER in week 48. He used ESRI - ArcGIS software for the spatial distribution of emissions. A large number of practical examples visualised application features and display options for data sets, grids and maps. The inventory team carried out a number of exercises ranging from data import, map extraction (from websites) and modification to the selection of different grids and spatial disaggregation of the emissions. Although welcomed by the participants, self-education is needed to exploit all ESRI-ArcGIS features. The MoEU, inventory team is expected to include gridding in its regular workplan.

The mission report jointly drafted by Mr WANKMUELLER (for act.4.2) and Ms MARECKOVA (for Act.2.1 and 4.3) is in Annex 3 of this progress report. Appendixes include the user manual for gridding of emissions data.

In week 49, Mr Friedrich PÖTSCHER carried out the follow-up training on the estimation of emissions from road transport. It built on results of a seminar that introduced the COPERT model in the previous quarter of the Project. The training led to the generation of the first version of COPERT based on data from Turkey. The MoEU is expected to update this version regularly. In order to ensure consistency, data is to be copied to the air emissions database – the backbone of the national air emissions inventory.

The mission report drafted by Mr PÖTSCHER is in Annex 13 of this progress report.

The main objective of a mission by Ms MÖRTH was to hold a communication workshop in week 04. This included presenting scientifically proved rules of communications and the underlying concepts. Combined with individual exercises, quizzes and role plays the communication process itself, the 4-sides model of a message by Schulz von Thun, the hierarchy of needs by Abraham Maslow and the guidance for repetition of messages by

¹ GAINS: Greenhouse gas - Air pollution Interactions and Synergies model

² MACC: Monitoring atmospheric composition and climate

Konrad Lorenz were explained. Tips on how to overcome obstacles were delivered and discussed with the group of participants. The final part of the workshop dealt with an assessment of events in which participants took part and the planning of new events such as the closing event of the Project to come. Pictures taken of flipchart papers developed in advance to and completed during the workshop were made available to all participants. A joint mission report in Annex 11 of this progress report provides all the details of the workshop.

Activity 4.3: Dissemination workshop on the implementation of the NECD in Turkey

The second part of the mission by Ms MARECKOVA dealt with the elaboration of preparatory work needed for the next inventory submission (year 2011). This included checking the availability of activity data and emission factors to estimate the emissions. Although cooperation with other institutions/ministries was established, regular exchange of data is yet to be organised.

The mission report jointly drafted by Ms MARECKOVA (for Act.2.1 and 4.3) and Mr WANKMUELLER (for act.4.2) is in Annex 3 of this progress report. Appendixes include the final draft Guidance document.

3.2 Proceedings of the activities

Proceedings of the missions, as well as minutes of meetings, were presented in the respective reports. In all cases, these were sent to the participants and the BC representatives for comments. Final versions, together with agendas, presentations and lists of participants included in mission reports were archived at the Twinning office. Presentations and selected documents were archived and prepared to be uploaded to the new Project website at: www.csb.gov.tr/projeler/nec

3.3 Issues to be considered

- (1) The Beneficiary asked for an extension period of the Project. Although confirmed by the MS Project Leader, this issue will be subject to agreement by the Steering Committee meeting held on 24th January 2013.
- (2) The Beneficiary has been asked to update the list of participants and the programme for the second study tour as soon as possible. The MS junior partner would appreciate a two months' notice beforehand.
- (3) The new structure of the Air Management Department led to the creation of the Division of "Air Quality Assessment" comprising five staff members only. It will be responsible for all aspects of Air Quality in the line with the LRTAP Convention and the emissions inventory.

4 2D - TIMING AND DELAYS

4.1 Adherence to Time Schedule

TR08IBEN02 Improving Emissions Control		B M A R K S	2011								2012								2013								
Month of Project			May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Operational Project Management						QR			QR			QR			QR			QR			QR			QR		FR	
Project Coordination / Steering Committee Meetings				v				v			v			v		v				v							
Running month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Component 0 - Visibility Events																											
Activity 0.1: Opening event		B0.1			v																						
Activity 0.2: Closing event		B0.2																									
Component 1 - Understanding of int. and EU legislation related to the NEC Directive and of the roles and responsibilities of the competent authorities in the Transposition of the NEC Directive																											
Activity 1.1: Identification present situation		B1.1.1	v				v	C																			
		B1.1.2	v					v						C													
		B1.1.3						v						v					C								
Activity 1.2: Investigation of roles and responsibilities		B1.2.1						v	v	v																	
Activity 1.3: Assessment of air management structure		B1.3.1						v						v		C											
		B1.3.2												v		C											
Component 2 - Establishment of the necessary capacity to prepare and manage the national NEC Directive inventory system and to compile, report and archive NO_x, NMVOC, SO₂ and NH₃ emissions data (including projections)																											
Activity 2.1: Training on inventory preparation, management & reporting		B2.1.1	v		v				C																		
		B2.1.2													S1	C											
		B2.1.3							v	v									v	v	v	C					
		B2.1.4												v								C					
		B2.1.5			v							v	v	v							C						
		B2.1.6																	v		C						
Activity 2.2: Awareness workshops and seminars		B2.2.1					C																				
		B2.2.2						C																			
Activity 2.3: Project Website		B2.3.1			v	C																					
		B2.3.2																									
		B2.3.3			v	C																					
Component 3 - Establishment of the necessary capacity to develop a strategic action plan to reduce emissions of NEC pollutants and to implement the Action Plan																											
Activity 3.1: Strategic Action Plan		B3.1.1						v	v						v				v	v	v	v					
		B3.1.2																				v					
Activity 3.2: Abatement Road Map		B3.2.1													v				v	v	v	v	C				
Component 4 - Development of reporting capacity in line with the NEC Directive																											
Activity 4.1: Evaluation the Institutional Capacity		B4.1.1		v	v		v									v				C							
		B4.1.2														v				v							
Activity 4.2: Training Programme		B4.2.1																		v	v	v					
		B4.2.2																									
Activity 4.3: Dissemination Workshops		B4.3.1							v						v					v	v	v				S2	
Running month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
LEGEND		QR	Quarterly Progress Report											FR	Final Report				v	Expert mission carried out							
		C	Benchmark completed											S#	Study Visits: 1. AT, 2. FI												

4.2 Recuperation of delays

There was no delay in the reporting period.

5 2E - ASSESSMENT

5.1 Overall Assessment of progress

The Ministry expressed its satisfaction with the Project's progress made until 24th January 2013. Progress includes the completion of three Benchmarks, (1) B3.1.1 on the draft Strategic Action Plan, (2) B3.2.1 on the draft Emission Abatement Roadmap and (3) B2.1.3 (the second part), "Guidance on the compilation of national air emissions inventory" delivered to the MoEU in January 2013. Sufficient progress was also made for B3.1.2. However, the related document can only be completed after consultations on waste issues are held with the authorities and within WGs under CoBoard in the coming weeks.

The development of SAP and EARMs required intensive discussions and consultations with the MoEU and other institutions involved in transposing and implementing the NECD in Turkey. Several missions were undertaken in order to compile policies and measures (PaMs) for each emissions category and sector and, to agree on strategic issues such as abatement techniques, the transition period, possible emission ceilings and on an implementation plan. With the release of the Circular, the CoBoard is expected to establish working groups. One of these should aim at a regular exchange of data, another on PaMs towards meeting NEC ceilings by 2025 (date is subject to negotiation with the EU).

By the end of the 7th quarter, all benchmarks within Component 1 (six) and all benchmarks under Component 2 but one (B2.3.2 lasts until the end of the Project) were achieved.

Current expenditure showed an increase in spending in the seventh quarter compared to the previous quarter. All Project activities were carried out within the budget allocated and reallocated respectively.

Administrative actions included *inter alia* the preparation and approval of two side letters. The notification of Addendum no. 04 was received on 7th December 2012.

5.2 Findings and Recommendations

No observations.

Section 3: Expenditures

Budget tracking and actual expenditures in the reporting period are presented in a separate Excel file that is in Annex 14 of this report.

Done at Vienna and Ankara in four originals in the English language, one for each of the signatories, the CFCU and the EUD.

**BC Project Leader
Mr Muhammet ECEL**

**MS Project Leader
Mr Manfred RITTER**

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Signature

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Signature

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Date

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Date