

Quarterly Progress Report N°08



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: April 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 Emissions 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(s)
EEA	European Environment Agency
EIONET	European Environment Information and Observation Network
EMEP	European Monitoring and Evaluation Programme
EU	European Union
IIR	Informative Inventory report
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

Addendum no. 05 on the extension of the Project was endorsed by the contracting parties on 18th April 2013. The implementation period of the Project now ends on 6th July 2013.

This report summarises all activities carried out in the eighth quarter of the Twinning Project (25 January - 24 April 2013). Fourteen missions were undertaken by STEs covering activities in all the four components. These required 69 person-days' work in Turkey. Some experts covered multiple activities within a single mission.

Highlights of progress made until 24th April 2013 include:

- a) Completion of benchmarks B3.1.2 and B4.1.2;
- b) Review of policies and measures for sectors agriculture, energy and industry, residential/commercial combustion and waste;
- c) Upgrade of emissions estimates from road transport for the year 2011 to be included in the national inventory for CLRTAP submission;
- d) Final draft strategic action plan (SAP) and emissions abatement roadmaps (EARM) delivered to the MoEU and for consultation within CoBoard;
- e) Final Draft legislation ("roles and responsibilities") on data flow and exchange of information between institutions to meet obligations arising from the CLRTAP/EMEP Protocol and the NECD;
- f) Update of Informative Inventory Report and User Manual;
- g) Elaboration and approval of three side letters (no. 22+23+24) required to nominate a new RTA counterpart, nominate STEs for certain activities and to reallocate the budget accordingly;
- h) Preparation of Addendum 5, in order to extend the project by 2 months, as agreed with BC, MS, CFCU, and EUD.

Cumulated expenditure reached 81% of the budgeted expenditure for missions undertaken. The expenditure compilation is in Annex 15 of this report.

The work plan (item 2D - TIMING AND DELAYS) shows a delay due to repeatedly non-approval of the second study tour (originally planned for October 2012, but postponed to April 2013). The Ministry proposed to postpone it again.

Work for the remaining period of the Project will include several expert missions (activities 3.1, 4.2+4.3) and the closing event.

The draft progress report was sent to all SC members in advance to the Steering Committee Meeting held on 26th April 2013. Members agreed on holding the closing event on 13th June 2013. The event will most likely be held jointly with the AQ Project TR07IBEN02.

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:	08
Period covered by the report:	25 January 2013 to 24 April 2013
Duration of the project:	24 months + 2 months extension
Project Leaders:	<u>BC Project Leader:</u> Mr Muhammet ECEL - Deputy General Director - 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)
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.3.2_KAMPEL_Feb2013
Annex 2	MR_Act.3.2_KÖTHER_Feb2013
Annex 3	MR_Act.3.2_PÖTSCHER_Feb2013
Annex 4	MR_Act.3.2_ANDERL_Feb2013
Annex 5	MR_Act.3.2_POUPA_Feb2013
Annex 6	MR_Act.3.2_SAAFINEN_Feb2013
Annex 7	MR_Act.3.1_BORKEN_KLEEFELD_March2013
Annex 8	MR_Act.3.1+3.2_NAGL_March2013
Annex 9	Benchmark Report B3.1.2_March2013
Annex 10	MR_Act.4.2_MARECKOVA_Feb2013
Annex 11	MR_Act.4.2_JANTUNEN_Feb2013
Annex 12	MR_Act.3.2+4.2_ZECHMEISTER_KÖTHER_March2013
Annex 13	MR_Act.4.2_MÖRTH_ZECHMANN_April2013
Annex 14	MR_Act.4.3_MARECKOVA_March2013
Annex 15	Q8_Expenditure

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

1 2A – BACKGROUND

1.1 Policy and General Developments

(1) In February, tasks of the former Department of Climate Change were added to the Air Management Department led by Mr Sebahattin DÖKMECİ, former RTA counterpart. About 42 staff members were allocated to seven Divisions. By mid-March, Mr DÖKMECİ became Deputy General Director, hierarchically equal to the position held by Mr Muhammet ECEL. The Department of “Climate Change and Air management” is now led by Mr Ercan GÜLAY, former head of Division on control of urban wastewater pollution, who will act as RTA counterpart.

The Division of “Air Quality Assessment” with five staff members is now responsible for the NEC Project and the AQ Project. Ms Funda FİLİZ, Head of the Division and main staff associated with the Project remained unchanged but two newcomers joined the Division.

(2) The RTA assistant, Ms Burcu YENICE, submitted her resignation letter and left the Project on 14th April 2013. There will be no replacement for the remaining 11 weeks of the Project.

Addendum no. 05 on the extension of the Project was endorsed by the contracting parties on 18th April 2013. The implementation period of the Project ends on 6th July 2013.

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 two Benchmarks:

B3.1.2 “Documentation of consultations carried out during the development of SAP and EARM”

During his mission in March 2013, **Mr NAGL** completed the draft documents, which were converted into a benchmark report. Findings contained in the SAP and EARM documents shall be discussed within working groups of CoBoard. The MoEU is expected to consult stakeholders regarding joint actions necessary to take during the implementation of the NECD. The CoBoard will have to prepare decisions covering *inter alia* the action plan and measures to be implemented in order to improve emissions control and achieve national emissions ceilings. The benchmark report is in Annex 9 of this progress report.

Despite the fact that the Project achieved all benchmarks of Component 3, it will continue providing support to the consultation process with stakeholders and institutions involved in the transposition and implementation of the NECD.

B4.1.2 “Draft legislation that defines the roles and responsibilities of institutions involved in the transposition and implementation of the NECD”

Mr JANTUNEN (SYKE, Finland), together with the Ministry, developed a legislation that put the focus on data flow and exchange of information between institutions involved in the transposition and implementation of the NECD. This legislation will help the Ministry fulfil commitments, which arise from the Convention on LRTAP and its EMEP Protocol at least. Meetings of the Coordination Committee/Board are expected to utilise this legislation and intensify the cooperative work formally established between institutions.

The draft legislation was included in Annex 11 of this progress report.

3 2C - ACTIVITIES IN THE REPORTING PERIOD

Activities undertaken in the reporting period required fourteen expert missions, which focussed on the completion of the draft legislation, the strategic action plan and the sectoral emission abatement roadmaps. A large number of missions aimed at providing support to the Ministry in the preparation of the data submission to CLRTAP.

The following chapter provides interim results of missions including some conclusions where appropriate. 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 the components 3 and 4. Some STEs covered multiple activities within a single mission, others carried out a joint mission.

Summary:

Component 1: completed

Component 2: completed

Component 3: Nine 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),
- provide training, evaluate progress of the Turkish air emissions inventory and assist the MoEU in the submission of the Inventory to the CLRTAP and
- to deliver input to future CoBoard meetings.

Details:

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

The main objectives of the mission by **Ms Elisabeth KAMPEL** in week06 were to complete the work on the development of policies and measures (PaMs) for the waste sector, and to provide training on the calculation of air emissions of sector 6-Waste. PaMs aim to control emissions generated by the waste sector. These provide recommendations for the implementation in a cost-effective manner. The mission included meetings with Waste management department of the MoEU to discuss the draft PaMs. Results of this mission were incorporated in the benchmark report B3.1.2. Details of the mission are included in the mission report that is in Annex 1 of this progress report.

Ms Traute KÖTHER undertook two missions under this activity, whereby the second one was a joint mission together with Andreas Zechmeister (for further details, please see section “component 4”)

Her first mission aimed to support to 2013 LRTAP submission (review of industrial processes/Solvent use, documentation of the calculations in the draft IIR-chapters and update of QA/QC procedures, complete the inventory improvement plan). This involved workshops and several bilateral meetings with sectoral inventory experts of the Department. Four documents were updated and made available to the Ministry.

All the details can be found in her mission report that is in Annex 2 of this progress report.

Mr Friedrich PÖTSCHER did undertake a mission in week07 in order to set up the road transport inventory for the year 2011, to verify it against fuel sold statistics and to export data to NFR. These included training for the inventory team, its newcomers and representatives from the Ministry of Transport, Maritime Affairs and Communications. He also finalised the transport PaMs for the draft versions of SAP/EARM and helped the MoEU adapting the transport chapter in Turkey's informative inventory report (IIR) 2013.

With this mission, Turkey is now able to estimate annual emissions generated in the transport sector by using the well-developed COPERT software. It can now be used to produce time series and emission projections, and data can be exported to NFR and/or CRF and to CollectER in the future.

The mission report drafted by Mr PÖTSCHER is in Annex 3 of this progress report.

In week08, three STEs aimed to complete sectoral emission abatement roadmaps.

(1) **Mr Michael ANDERL** covered a large number of actions including, (a) Training on emission projections for sector agriculture, (b) data requirements, (c) PaMs to be included to the SAP, (d) Workshop for experts from the MoEU and Ministry of Agriculture and (e) Recommendations on annual update and improvements using EMEP/EEA Guidelines. The Turkish inventory team is encouraged to process recalculation tables to include all recalculation differences in absolute terms on sub-sector level. The updated inventory model and the final draft IIR 2013 were delivered to the MoEU at the end of his mission.

The mission report drafted by Mr ANDERL is in Annex 4 of this progress report.

(2) **Mr Stephan POUPA** reviewed the NEC inventory submitted to EEA on 15th Feb 2013 and provided training to MoEU staff in the application of the different Tier¹ methods for emission estimation of industrial combustion plants. Tier 2 and 3 methods are recommended to use for key sources [(Furnaces in manufacturing industries especially cement and iron and steel industries (NO_x, SO₂), Oil refineries (NO_x, SO₂), Households (SO₂)], emissions projections and scenarios associated with the strategic action plan and abatement options. He proposed exploiting statistical data sources including the national energy balance in order to improve the accuracy of the emissions inventory. Following one of the key recommendations of the CLRTAP review, Mr Poupou modified the worksheets for 1.A.1, 1.A.2 and 1.A.4. These excel files now use energy units (TJ) from the national energy balance (instead of tons or cubic meters), and emissions factors expressed in g/GJ (instead in t/kt).

More information is provided in his mission report that is in Annex 5 of this progress report.

(3) During her mission, **Ms Kristina SAARINEN** covered the following issues: (1) Checking the calculations (industrial processes) of 2011 emissions data for submission to CLRTAP; (2) Review of IIR and NFR tables and (3) Checking consistency between air emissions compiled by the MoEU and greenhouse gas emissions estimated by Statistics Turkey.

For many industrial processes, lack of activity data hindered estimation of the emissions. More effort is need to exploit methodologies available especially for the pulp and paper industry and paint applications. Emissions sources such as storage, handling and transport

¹ TIER methods: Tier1-Simplest method for non-key sources with activity data available to all countries; Tier2- Technology-specific emission factors are applied; Tier3- More detailed or country-specific methods.

of several products, and quarrying and mining for which activity data exists may be added to the inventory. Emission factors for process emissions are available in the Guidebook and can be obtained from e.g. Air Pollutant Emission Factor Library at <http://www.apef-library.fi/> or from CEPMEIP.

There are obvious inconsistencies between the air pollutant emissions inventories under the CLRTAP and NECD and the greenhouse gas inventories reported under the UNFCCC in the recent submissions. Examples of sources included in the CLRTAP/NECD reporting that are not included in the UNFCCC reporting are, for instance, based only on a superficial check: degreasing and dry cleaning, pulp and paper, adipic acid production. Emissions should be reported in equal volumes, an example of differences is NFR/CRF sector 3, where there is a gap between the reported NMVOC emissions (CRF 72.1 kt and NFR 57.8 kt). Inconsistencies should be removed before the 2012 data submission due in February 2014.

In order to overcome inconsistencies between different data compilers, a technical working group between the Ministry of the Environment and Urbanization and Statistics Turkey should be established. This would facilitate to agree on methods and share databases and to improve the current data collection from the industry. Different datasets (statistical data, environmental reports by the industry and other data collected by the environmental authorities and industrial associations) shall be analysed on their use for the inventorying process.

Ms SAARINEN provided more details within her mission report, which is in Annex 6 of this progress report.

Mr Jens BORKEN-KLEEFELD (IIASA)² held a three-day workshop in week11 on the following issues: (a) EU experience on the Revision of the Gothenburg Protocol and the EU' Thematic Strategy on Air Pollution, (b) Use and application of the GAINS Model for this purpose, and (c) Introduction how Turkey could use GAINS and integrate its own data into the model.

The first day included a presentation on the key factors for setting air quality targets in the framework of the EU Strategy for Air Pollution. Particular emphasis was paid to the scientific elements on the one hand and the political decision making on the other hand. Results of the GAINS model run provided an essential input for the revision of the Gothenburg Protocol. These will also be used for the NEC Directive being revised by the European Commission.

On the other two days, details of the GAINS model were discussed, in particular the practical handling of the model and the procedure for data input. The Ministry's experts crosschecked available data and prepared the files to be uploaded to the model. Data and other information developed for the SAP, EARM and the various NEC scenarios can be utilised by the Ministry while missing data is yet to be compiled. Mr Borken-Kleefeld recommended the MoEU to complete the data set necessary for a full model run.

The workshop encouraged Turkey to use the GAINS model in order to determine the Ministry's air quality strategy and the national emissions ceilings and to integrate results into the negotiations with the European Commission and other bodies. IIASA will continue to provide support.

The mission report drafted by Mr BORKEN-KLEEFELD is in Annex 7 of this progress report.

² This mission required private sector input (see SL22).

In the same week¹¹, **Mr Christian NAGL** had a mission to finalize the draft Strategic Action Plan (SAP, activity 3.1) and the Emission Abatement Roadmap (EARM, activity 3.2) in line with the European guidelines. It included completing the benchmark report B.3.1.2 on the documentation of consultations carried out during the development of SAP and EARMs. Input to the report was provided by sectoral experts (Mr Fritz Pötscher and Mr Seppo Sarkinen for transport, Mr Michael Anderl for agriculture, Ms Kristina Saarinen for energy and industry, Mr Andreas Zechmeister and Alexander Storch for residential and commercial sources, Ms Elisabeth Kampel for the waste sector). In his role as component leader, Mr NAGL had to look at consistency of findings and results *inter alia* on the description of the emissions of NEC pollutants, the relevant sources, the socio-economic assumptions for emissions projections and on preliminary cost-benefit-analyses, which determine policies and measures for the implementation of the NECD. The draft SAP was discussed with MoEU who provided specific information after the mission. The STE adjusted the draft document accordingly.

Supported by the Project, the Ministry is expected to communicate SAP and EARM within working groups to be established by the CoBoard meetings to come. The SAP document will be translated into Turkish to facilitate the communication with stakeholders.

The mission report drafted by Mr NAGL is in Annex 8, the benchmark report B.3.1.2 is in Annex 08 of this progress report.

Component 4:

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

In week06, **Ms Katarina MARECKOVA** held a workshop on Inventory management and formal procedures. She discussed the draft strategy for the improvement of the inventory and crosscutting issues such as key category analysis (KCA), IIR, QA/QC and the assessment of uncertainties. The improvement strategy was linked to activity 4.3.

The Turkish experts, especially new team members should study the EMEP/EEA Emission Inventory Guidebook to be able to complete/improve emission estimates of all the EMEP pollutants for the next inventories. It was strongly recommended to report full time series (1990-2011) of NECD pollutants and to import CO emissions into the NFR tables. During a mission in 2012, data for the energy sector was put into the draft Turkish CollectER. The MoEU will utilise the CollectER system in the future.

It is strongly recommended that Turkish inventory experts participate in inventory specific trainings and workshops organised by the EEA and EMEP (e.g. TFEIP and TFIAM meetings, EIONET workshops etc.).

In her role as component leader, she discussed the need for trainings/workshops to be carried out within the remaining period of this Project. Her final mission has been scheduled for March 2013.

The mission report drafted by Ms MARECKOVA is in Annex 10 of this progress report.

The objective of the mission by **Mr Jorma JANTUNEN** in the same week was to draft a legislation that defines the roles and responsibilities of all involved institutions. He presented the draft and discussed it with MoEU during a workshop. Comments were incorporated and the final draft agreed by the participants. The Ministry is expected to

transpose this legislation into national law in order to back its obligations that arise from UNECE CLRTAP and the EMEP protocol. The CoBoard will further specify duties of other institutions to contribute to the NECD implementation process.

In his role as component leader, he discussed the need to agree on the date for the postponed Study Tour to Finland. He proposed week 15 (8-12 April), which seemed to would suit best the MoEU's Inventory Team and SYKE Finland. The higher management level of the Ministry was expected to approve the study tour. At the time of drafting this report, the Ministry postponed it, which may jeopardise the fulfilment of benchmark B4.2.2.

Two experts (Mr Jantunen and Mr Sautner) will be available for a mission in May/June 2013 in order to discuss the transposition of the Draft Legislation and present a summary of activities carried out within Components 1 and 4.

The mission report drafted by Mr JANTUNEN is in Annex 11 of this progress report.

A joint mission by **Ms Traute KÖTHER** and **Mr Andreas ZECHMEISTER** in the week12 aimed to support the MoEU to complete the IIR 2013 for CLRTAP submission, to train newcomers and to hold a workshop on Key Category Analysis (KCA) and Uncertainties. The review revealed a number of gaps regarding trends (Energy and Industry) and the summary of the IIR, which the STEs were partly able to fill. They delivered the comprehensive documents (doc and xls files) to the Ministry, who was expected to update it before submission to the Convention's secretariat.

The workshop on KCA and on managing uncertainties was held with experts of the MoEU on 21 March. This was accompanied by the development of an excel sheet that automatically would perform level and trend assessment for all pollutants (NO_x, NMVOC, NH₃, SO₂, PM10 and CO). The input of the calculation was linked to the NFR tables. Furthermore the IIR chapter for the KCA was drafted which also includes all results of the excel model and an additional user guidance for KCA was added in the user manual. The afternoon session dealt with the general handling of uncertainties in air emissions inventories. Analyses and Reporting on uncertainties have become an issue in the policy arena and requested as part of conventions and protocols (e.g. UNFCCC, national GHG emission inventories and IPCC assessments). It was recommended to implement the Uncertainty Analysis (qualitative assessment) in the TR inventory process in the future.

The joint mission report drafted by the STEs is in Annex 12 of this progress report.

In week16, Ms Ingeborg ZECHMANN and Ms Monika MÖRTH presented and discussed during interactive trainings three main issues: (1) Presentational methods to strengthening skills of Turkish experts, (2) Follow-up communication training and (3) Preparatory work in advance to the closing event and the wrap-up of the project scheduled for the 13th of June 2013. Participants were rather enthusiastic in taking chance to present their selected topics. The discussion revealed a number of typical presentational mistakes and provided useful feedback that the speaker will take into consideration. The dominance of power point presentations (pptx) nearly displaced flipcharts and white boards. The STEs were able to show for which cases flipcharts were the better choice.

The Division of Ms Funda Filiz, together with the Twinning team held a brief meeting with the Ministry's Press Department. This aimed at discussing the involvement of press and TV in the final stage of the project. The press department proposed to invite journalists and help disseminating a press release at the Project's closing event for which the STEs have already drafted an agenda. The RTA asked the press department to help raising awareness

for the closing event on ceremonies during the environmental day (5th of June). The department suggested the Project to prepare an article for the Ministry's monthly magazine "ÇEVRE ve ŞEHİR" and present the main results of the project.

More information was made available by the STEs in their joint mission report that is in Annex 13 of this progress report.

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

In week 12, **Ms Katarina MARECKOVA** held a workshop to present and discuss results of component 2 missions carried out over the past 24 months. She provided recommendations on Component 2 results to be used for future work of the CoBoard. Ms Köther and Mr Zechmeister participated in the workshop.

About 20 missions were allocated to help the Project to achieve the benchmarks planned under C2. Relevant training documents were delivered to the Turkish experts. The main part of the success story was the submission of full time series (1990-2011) together with IIR to UNECE and EEA. The national inventory system at MoEU has been established and Turkish experts (Ms Gürtepe and Ms Köksal) can now act as multipliers to train newcomers on all aspects of the inventory. The user manual was updated to reflect latest changes of the national inventory team and a section on key category analyses was added to the manual. The final version was provided to the Turkish team.

Another achievement was the design and release of the project website in Q1. One Turkish expert (Ms Irde Gürtepe) will receive special training to enable the Ministry to use the website after project ended.

In 2012, Ms Mareckova proposed the Ministry to host the 2013 meeting of the UNECE Task Force on Emissions Inventories and Projections. This will eventually take place on 13-15 June 2013 in Istanbul at the Technical University.

She recommended to utilize the national Air Emissions Coordination Board (CoBoard) forum, and to develop regular data exchange between institutions mentioned in the Circular for the establishment of CoBoard. It is extremely important to ensure sufficient human and financial resources for the compilation of an annual air emissions inventory. This should be based on the CollectER system and maintain a single-coordinated database that covers all substances (air pollutants and greenhouse gases). She also proposed the Ministry to nominate experts for UNECE roster of reviewers.

The mission report drafted by Ms MARECKOVA is in Annex 14 of this progress report. The mission report does also contain the updated version of the User Manual.

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 partly uploaded to the Project website at: www.csb.gov.tr/projeler/nec

3.3 Issues to be considered

(1) The Addendum requesting an extension period of the Project still is in the approval process.

(2) The Beneficiary has neither approved the list of participants nor the programme for the study tour to Finland. Although postponed for the second time, the Ministry must take full responsibility if it fails again. Failure will mean that the related benchmark B4.2.2 was not achieved.

4 2D - TIMING AND DELAYS

4.1 Adherence to Time Schedule

TR08IBEN02 - Improving Emissions Control		B M A R K E T C H S	2011								2012								2013				Extension						
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	May	Jun	
Operational Project Management					Q1				Q2			Q3			Q4			Q5			Q6			Q7		Q8			
Project Coordination / Steering Committee Meetings				√					√			√			√		√			√			√		√				
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	25	26		
Component 0 - Visibility Events																													
Activity 0.1: Opening event	B0.1			√																									
Activity 0.2: Closing event	B0.2																												13
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	√				√	C																						
	B1.1.2	√					√			C																			
	B1.1.3						√			√				√					C										
Activity 1.2: Investigation of roles and responsibilities	B1.2.1						√	√	√																			C	
Activity 1.3: Assessment of air management structure	B1.3.1						√			√		C																	
	B1.3.2									√		C																	
Component 2 - Establishment of the necessary capacity to prepare and manage the national NEC Directive inventory system and to compile, report and archive NOx, NMVOC, SO₂ and NH₃ emissions data (including projections)																													
Activity 2.1: Training on inventory preparation, management & reporting	B2.1.1	√		√			C																						
	B2.1.2														S1	C													
	B2.1.3							√	√				√					√	√	√	C								
	B2.1.4												√								C								
	B2.1.5			√							√	√	√							C									
Activity 2.2: Awareness workshops and seminars	B2.1.6																		√	C									
	B2.2.1					C																							
Activity 2.3: Project Website	B2.2.2					C																							
	B2.3.1			√	C																								
	B2.3.2																												
B2.3.3			√	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						√	√				√				√			√	√	√	√	√	√	C				
	B3.1.2																		√	√	√	√	√	√	C				
Activity 3.2: Abatement Road Map	B3.2.1										√				√		√	√	√	√	√	√	C						
Component 4 - Development of reporting capacity in line with the NEC Directive																													
Activity 4.1: Evaluation the Institutional Capacity	B4.1.1		√	√		√				√					√				C			√							
	B4.1.2														√				√				√		C				
Activity 4.2: Training Programme	B4.2.1														√				√	√	√	√	√	√	√				
	B4.2.2																												
Activity 4.3: Dissemination Workshops	B4.3.1							√		√		√					√		√	√			√	√					
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	25	26		

4.2 Recuperation of delays

The Ministry did not approve the study tour to Finland but proposed to postpone it once more. The Project has done all things possible to prepare the study tour. It asked the Ministry to seek measures to recuperate the delay. The MS junior partner, SYKE Finland remains on the Project's disposal and may be able to host the tour in June 2013.

5 2E - ASSESSMENT

5.1 Overall Assessment of progress

The Ministry expressed its satisfaction with the Project's progress made until 24th April 2013. The completion of two Benchmarks, **B3.1.2 "Documentation of consultations carried out during the development of SAP and EARM"** and **B4.1.2 "Draft legislation that defines the roles and responsibilities of institutions involved in the transposition and implementation of the NECD"**

Current expenditure showed good relation with timing of the Project including its extension period.

Main administrative actions included the preparation and approval of three side letters and Addendum no. 5 on the extension of the Project to take effect on 18th April 2013. The implementation period of the Project ends on 6th July 2013.

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 15 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**

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Signature

.....
Date

**MS Project Leader
Mr Manfred RITTER**

.....
Signature

.....
Date