

Quarterly Progress Report N°04



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: April2012

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
CFCU	Central Finance and Contracts Unit
CLRTAP	Convention on Long Range Transboundary Air Pollution
EEA	European Environment Agency
EIONET	European Environment Information and Observation Network
EMEP	Environmental Monitoring and Evaluation Programme
EU	European Union
IPPC	Integrated Pollution Prevention and Control
MoEU	Ministry of Environment and Urbanisation
MoSIT	Ministry of Science, Industry and Technology
MoTMC	Ministry of Transport, Maritime Affairs and Communications
N/A	Not Applicable
NEC CoCom	Coordination Committee for the transposition and implementation of the NECD
NEC CoBoard	Coordination Board (name to be used after the establishment through official Circular)
NECD	National Emission Ceilings Directive
NMVOCS	Non-Methane Volatile Organic Compounds
POPs	Persistent Organic Pollutants
QA/QC	Quality Assurance/Quality Control
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

The report summarises all activities carried out in the fourth quarter of the Twinning Project. Six missions requiring 48 working days were undertaken by experts from Austria and Finland. They worked together with the Turkish colleagues of the Air management Department, Division of Emissions Control of Air Pollution. Activities carried out, as well as meetings and training seminars held in the reporting period followed an agreed mission plan. Representatives of the MoEU remained committed to the project and the work associated with it.

Highlights of progress in the reporting period made up to 24th April 2012 included (i) comprehensive training seminars held in weeks 5, 8, 9 and 12, (ii) missions for covering activities 1.3, 2.1, 3.1 and 3.2 and 4.3, (iii) preparation of the first meeting of the NEC Coordination Committee, (iv) approval of five side letters mainly covering nomination of STEs, reallocation of budget and change of RTA counterpart (Mr. Nihat YAMAN took over from Abdurrahman ULUIRMAK), (v) nomination of new Turkish Component Leaders and (vi) preparation of an addendum for the nomination of a new Finnish Junior MS Project Leader.

The Project delivered two benchmark reports. B1.3.1 documented Plans and Programmes based on the air management structure provided by MoEU and, B1.3.2 that dealt with institutional assessment.

A second committee meeting for the establishment of the NEC Coordination Board took place on 15th March 2012. The project presented an outline of the draft Cabinet Decree. The minutes of the meeting were sent to all participants.

The actual expenditure within the past twelve months of the Project corresponded to approx. 36% of the budgeted expenditure for missions. The expenditure compilation is at Annex 9 of this report.

The workplan included in 2D - TIMING AND DELAYS of this report showed no delay. However, action is required to align expenditure with the Project's progress. Planned expert missions for the next quarter will cover activities 1.1, 2.1 (inventory training including the study tour to Austria) and activity 4.2. The RTA submitted a proposal for the study tour to the MoEU on 28th February 2012. The beneficiary is requested at the fourth steering committee meeting to declare whether the study tour to Austria can take place as planned.

The draft progress report was sent to all SC members in advance to the Joint Steering Committee Meeting held on 9th February 2012. Members agreed on holding next Meetings on 3rd May 2012 and on 26th July 2012.

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:	04
Period covered by the report:	25 January 2012 – 24 April 2012
Duration of the project:	24 months
Project Leaders:	<u>BC Project Leader:</u> Dr. Mustafa ŞAHİN 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> Dr. Alec ESTLANDER Finnish Environment Institute, SYKE
Preparation of the Report:	Dr. Dietmar KOCH (RTA)
Project website	http://nec.cygm.gov.tr/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 were reviewed by the MoEU.

Annex 1	Report on Benchmark B1.3.1, Plans and Programmes
Annex 2	MR_Act.1.3 ESTLANDER_March2012
Annex 3	Institutional Assessment-II, Benchmark 1.3.2
Annex 4	MR_Act.2.1_KAMPEL_Jan-Feb2012
Annex 5	MR_Act.2.1_KOETHER_JOBSTMANN_ZECHMEISTER_Feb-March2012
Annex 6	MR_Act.2.1_SAARINEN_March2012
Annex 7	MR_Act.3.1+3.2_NAGL_March2012
Annex 8	MR_Act.4.3_NAGL_March2012
Annex 9	Q4_Expenditure_Final

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

1 2A - BACKGROUND

1.1 Policy and General Developments

Turkey's 10th Development Plan is being prepared to cover the period beginning with the year 2014. The TW Project, together with MoEU, is advised to adapt its work on emissions projections, strategic action plan and abatement roadmap to the development plan.

1.2 Project Assumptions

The assumptions specified for each activity remained valid.

The second meeting the NEC Coordination Committee was expected to establish the Board. However, it merely was once more a meeting for the exchange of information between Ministries and other stakeholders regarding the Circular and the working groups to be established. Initiated and guided by the Twinning Project, the MoEU has taken responsibility for the development of documents for the Committee and its follow-up meetings. The third committee meeting has been scheduled to take place on 8th May 2012. The organisation lies now fully in the hands of the MoEU while the project will contribute to and, conduct its own consultations with stakeholders regarding the Cabinet Decree, the national action plan incl. the abatement roadmap for meeting the emissions ceilings.

2 2B - ACHIEVEMENT OF MANDATORY RESULTS

2.1 Benchmarks in the reporting period

Missions undertaken in this period lead to achieving two benchmarks, B1.3.1 and B1.3.2. These are described in more detail in the following chapters of this progress report.

3 2C - ACTIVITIES IN THE REPORTING PERIOD

This chapter briefly summarises activities by components and provides findings and recommendations. Details of each activity/mission including agenda and list of participants were included in mission reports drafted by STEs.

3.1 All Components

During the reporting period, the following activities/missions were carried out:

Component 1: One mission under activity 1.3 to complete the analysis on plans and programmes and enhance the institutional assessment report;

Component 2: Three missions under activity 2.1 on comprehensive trainings for the NEC inventory team;

Component 3: One mission covering activities 3.1 and 3.2 on drafting the national programme and the action plan for the implementation of the NEC Directive;

Component 4: One mission under Activity 4.3 on preparatory work for the establishment of the NEC Coordination Board;

Component 1:

Activity 1.3 Assessment of overall air management structure, covering abatement plans and programmes and capacity and preparedness assessment

✓ **Benchmark B1.3.1 on documenting “Abatement plans and programmes” based on the air management structure provided by the MoEU.**

This document has been prepared by Mr. Alec ESTLANDER who also carried out the concluding mission in week10 of 2012. The benchmark has been interpreted as analysing existing plans or programmes in Turkey, which may be relevant for the implementation of the NECD. The National Climate Change Action Plan (NCCAP, as of July 2011) is the most important document to be considered. The committee meeting for the establishment of the NEC Coordination Board already identified synergies with the work of the National Climate Change Coordination Board that prepared this Plan. Although the focus is on mitigation, action to reduce GHG emissions can have an additional economic benefit by reducing local air pollution of other substances. Emissions of these substances include NECD pollutants, POPs and HM. The Twinning Project will build on the NCCAP when drafting the abatement roadmap and the action plan for meeting national emissions ceilings.

There is more information available in the benchmark B1.3.1 report at Annex 1. The mission report drafted by Mr. ESTLANDER is at Annex 2 of this progress report.

✓ **Benchmark B1.3.2 “Analysis of Capacity and Preparedness of relevant public authorities to handle emissions problems” *)**

*) Information was incorporated in the draft institutional assessment report. The third part dealing with institutional structure and technical capacity, with enhancement proposals (B4.1.1) will be added by month21 of the project.

After three missions, benchmark B1.3.2 was completed by the STE Mr. Alec ESTLANDER. Information and findings were incorporated into the institutional assessment report published together with the third quarterly progress report. The Project was not able to interview all of the relevant institutions within the timeframe available. Support was also expected to get from the Coordination Board and its working groups. However, the process for its establishment obviously required more time for discussing stakeholder feedback and agreeing on procedures.

The benchmark B1.3.2 report at Annex 3 provides useful information about several Ministries and other institutions such as TURKSTAT, TUBITAK and TOBB.

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

Three missions covering benchmarks B2.1.3 and B2.1.5 were undertaken by five STEs from Austria and Finland as follows:

(1) The first mission undertaken by Ms. Elisabeth KAMPEL aimed to review the draft emissions inventory and to discuss methods for calculating the emissions and the trends and, to participate in the TA seminar held on 31st January 2012. The inventory compiled by the TA Project contains data for each year from 1990 to 2010 inclusive using the most up-to-date

data sets available. By mid-February, data and the accompanying reports were formally handed over to the Twinning Project. From now on, the Project will use data during trainings and document methods in the informative inventory report (IIR).

The MoEU submitted emissions data to the European Environment Agency on 15th February – an important step forward to meet reporting obligations. Upload of data included 2010 emissions of SO₂, NO_x, NMVOC and NH₃ and sectorial data using standardized UNECE nomenclature for Reporting (NFR09). Submission of GHG data to the UNFCCC secretariat remains with TURKSTAT to cover. Another issue for the MoEU is to get prepared for the official technical review of the Turkish inventory. This will take place in June 2012.

The mission report drafted by Ms. KAMPEL is at Annex 4 of this progress report.

(2) The second mission was carried out by three inventory experts from the Environment Agency Austria. A large volume of trainings covered the following topics:

- Informative Inventory Report (IIR) and NFR (update);
- Use of EMEP/EEA inventory guidebook and of UNECE reporting guidelines;
- Introduction to key category analysis and notation keys;
- Methods to be used to estimate the emissions;
- Calculation of emissions by sectors;
- Customized Excel training (interpolation, extrapolation, if-then function etc.);
- Archiving and documentation.

Supported by the Austrian STEs, the Turkish inventory team prepared the first draft IIR. This document can serve as the source of information about estimation methods, activity rates and emissions factors by sectors and processes including references to data sources are documented. The document enables any expert including the review team at CEIP¹ to understand and reproduce data. The STEs prepared folders for sectoral experts containing the national inventory, calculation sheets and special data tables for submission to the EU/EEA (under the NECD) and to UNECE CLRTAP. Holding a single set of data on a shared drive accessible to all inventory experts would help keeping information up-to-date.

These training days marked an important step forward to strengthening the capability of the Turkish inventory team to develop and further maintain the national air emissions inventory. However, a large number of issues remains to be tackled such as plant specific data on LPS, coverage of pollutants by sectors and trainings on the estimation of emissions from the sectors agriculture (Ammonia) and product use (NMVOC) and on fugitive emissions (NMVOC, PM and POPs).

More details were laid down in the joint mission report, which is at Annex 5 of this progress report.

(3) The third mission undertaken by Ms. Kristina SAARINEN covered trainings on documenting calculations of the emissions from the sectors Industrial Processes and, Solvent and Other Product Use and, on data analysis in the IIR and on the use of point source data in inventories. During the mission, IIR chapters were drafted for selected industrial sectors (NFR2: mineral, pulp and paper, food and drink) as well as solvent and other product use (NFR3). In addition to this, documentation for chemical and metal industries was checked and some missing industrial activities under these sectors were included. Training included also demonstration of QA/QC for comparing calculations sheets and reports (NFR and IIR) as well as technical

¹CEIP The EMEP Centre on Emission Inventories and Projections (CEIP) hosted by the Umweltbundesamt, the Austrian Environment Agency

guidance for using MS Excel to prepare tables and graphs in the IIR. An introduction was provided on what is needed for reporting information about large point sources (LPS) under the CLRTAP. About 135 LPS were identified in Turkey. Data was converted into the Annex 4b of the NFR and reported to the EEA.

Note: Preparing an emissions inventory for a large country like Turkey is resource demanding and can hardly be performed and with good quality in parallel to other tasks imposed on the inventory team of the MoEU.

Follow-up trainings shall focus on potential areas for the improvement of the inventory identified by the TA Project and on the development of emissions projections.

The mission report drafted by Ms. SAARINEN is at Annex 6 of this progress report.

Another mission started at the last day of this quarter thus will be covered by the next progress report.

Component 3:

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

and

Activity 3.2 Preparation of abatement roadmap for the four pollutants by sectors

The main objective of the mission by Mr. Christian NAGL was to discuss the process for drafting the Strategic Action Plan (SAP) and the Emission Abatement Road Map (EARM) with the MoEU and for conducting consultations with stakeholders. An outline of the SAP and the EARM were prepared, which were based on guidelines for developing NEC programmes published by the European Commission. The process may require holding additional trainings covering the development of national ceilings based on emissions projections. In the absence of official planning data and assumptions, the TA Project will make emission projections for 2011 – 2025 based on the judgement of key experts. IIASA² recently modelled the emissions of Turkey's NEC pollutants until the year 2030 by applying the so-called baseline scenario. The European commission will most likely use this approach when negotiating the ceilings with Turkey. However, the emissions included in the IIASA model should correspond to the emission estimates compiled by the TA Project.

The mission report drafted by Mr. NAGL is at Annex 7 of this progress report.

Component 4:

Activity 4.3 Dissemination workshops on the implementation of the NEC Directive in Turkey

The second mission under this activity was undertaken by Mr. Christian NAGL who worked on NEC transposition issues and participated in the second meeting of the National Coordination Board held on 15 March 2012. He presented the outline of the Cabinet Decree. Feedback from stakeholders was requested in order to streamline follow-up actions.

The meeting agreed to continue the preparatory process towards the establishment of a National Coordination Board. Minutes of this meeting were disseminated. A follow-up meeting scheduled for the 26th April 2012 has been postponed.

The mission report drafted by Mr. NAGL is at Annex 8 of this progress report.

²International Institute for Applied System Analyses

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 were archived at the Twinning office. Selected documents were uploaded onto the Project's website.

3.3 Issues to be considered

The Contract specified two study tours as capacity building activities and important benchmarks of which one (B2.1.2 – Study tour to Austria) was to be achieved in the first year of the Project. Previous progress reports identified this issue as a significant project uncertainty. The beneficiary is requested at the fourth steering committee meeting to declare whether the study tour to Austria can take place as planned.

4 2D - TIMING AND DELAYS

4.1 Adherence to Time Schedule

TR08IBEN02 Improving Emissions Control		B M E A R N C K S H 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			x		x				x		x	x		
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			C																						
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			v	C															
	B1.1.3						v			v																
Activity 1.2: Investigation of roles and responsibilities	B1.2.1						v	v	v	C																
	B1.2.1						v			v		C														
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 NOx, 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											
	B2.1.3							v	v	v	v	v														
	B2.1.4																									
	B2.1.5			v						v	v	v														
	B2.1.6																									
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														
	B3.1.2																									
Activity 3.2: Abatement Road Map	B3.2.1											v														
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																
	B4.1.2																									
Activity 4.2: Training Programme	B4.2.1																									
	B4.2.2																			S2						
Activity 4.3: Dissemination Workshops	B4.3.1								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	

LEGEND QR Quarterly Progress Report FR Final Report v Expert mission carried out
C Benchmark completed S1 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 results achieved during this reporting period suggest that the Project's progress as expected by *inter alia* completing two of the benchmarks within component 1 by month 11 (March 2012). The most important missions covered four weeks comprehensive training seminars for the Turkish inventory team. As an important step in meeting reporting requirements, the MoEU submitted NEC emission data and the Informative Inventory Report (IIR) to the European Environment Agency.

Other issues were associated with enhancing the institutional analysis, agreeing on processes for drafting the Cabinet Decree, the national action plan incl. the abatement roadmap for meeting emissions ceilings and contributing to the establishment of the NEC Coordination Board.

The TA Project compiled the NEC emissions inventory covering the years 1990 to 2010. From now on, the Twinning Project can use the most up-to-date data sets available during follow-up trainings. Another TA document providing a more in-depth account of the methodology and data sources employed will help enhancing the inventory in the potential areas for future improvement.

Although low in spending, all Project activities were carried out within the budget allocated and period foreseen. Administrative actions included interpretation during trainings, drafting and agreeing on five side letters and the second addendum, which still is in the signature phase.

The new contract manager at the CFCU, Ms. Emire ÇETİN, provided excellent support regarding allocation rules, approval of side letters and drafting of the second addendum.

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 at Annex 9 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
Dr. Mustafa ŞAHİN

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