

Twinning Project with Turkey

Improving Emissions Control*

Manfred Ritter, 13.06.2012 Vienna

* This project is co-financed by the European Union and the Republic of Turkey

The Air Pollution Context

- The Thematic Strategy [COM(2005) 446]
 - Attain levels of air quality that do not give rise to significant negative impacts on, and risks to human health and environment
 - Establishes objectives for air pollution and proposes measures for achieving them by 2020
- Delivered in stages
 - Health and environmental objectives (Air Quality Framework Directive)
 - Emission reduction targets (National Emission Ceilings Directive)
- The Challenge: progressively reduce national emissions
 - Set long-term targets, devise a national strategy and ensure implementation (through operational and strategic controlling)

Objective of our Twinning Project

“improve the environmental conditions in Turkey by implementation and enforcement of the EU environmental *acquis* in the frame of ambient air quality.”

- **Establish the necessary capacity** within the Ministry of Environment and Forestry and Urban Development to transpose and implement National Emission Ceilings Directive (2001/81/EC) in Turkey
- **Strengthen intra-institutional cooperation** and to utilise all relevant expertise as efficiently as possible
- **Strengthen institutional capacity** to transpose the NEC Directive, to prepare inventories and projections and to develop national strategies for reducing emissions.
- **Training of Turkish experts**
 - → **Ensure a sustainable effect of the project**

Partners

- Beneficiary Country: **Turkey**
- Beneficiary: **Ministry of Environment and Forestry**
- BC Project Leader: **Dr. Mustafa Şahin, Deputy GD**

- Member State: **Austria**
- Institution: **Umweltbundesamt**
- MS Project leader: **Manfred Ritter**, Head of Unit (Air Pollution Control and Climate Change Mitigation)
- Resident Twinning Advisor (RTA): **Dietmar Koch**

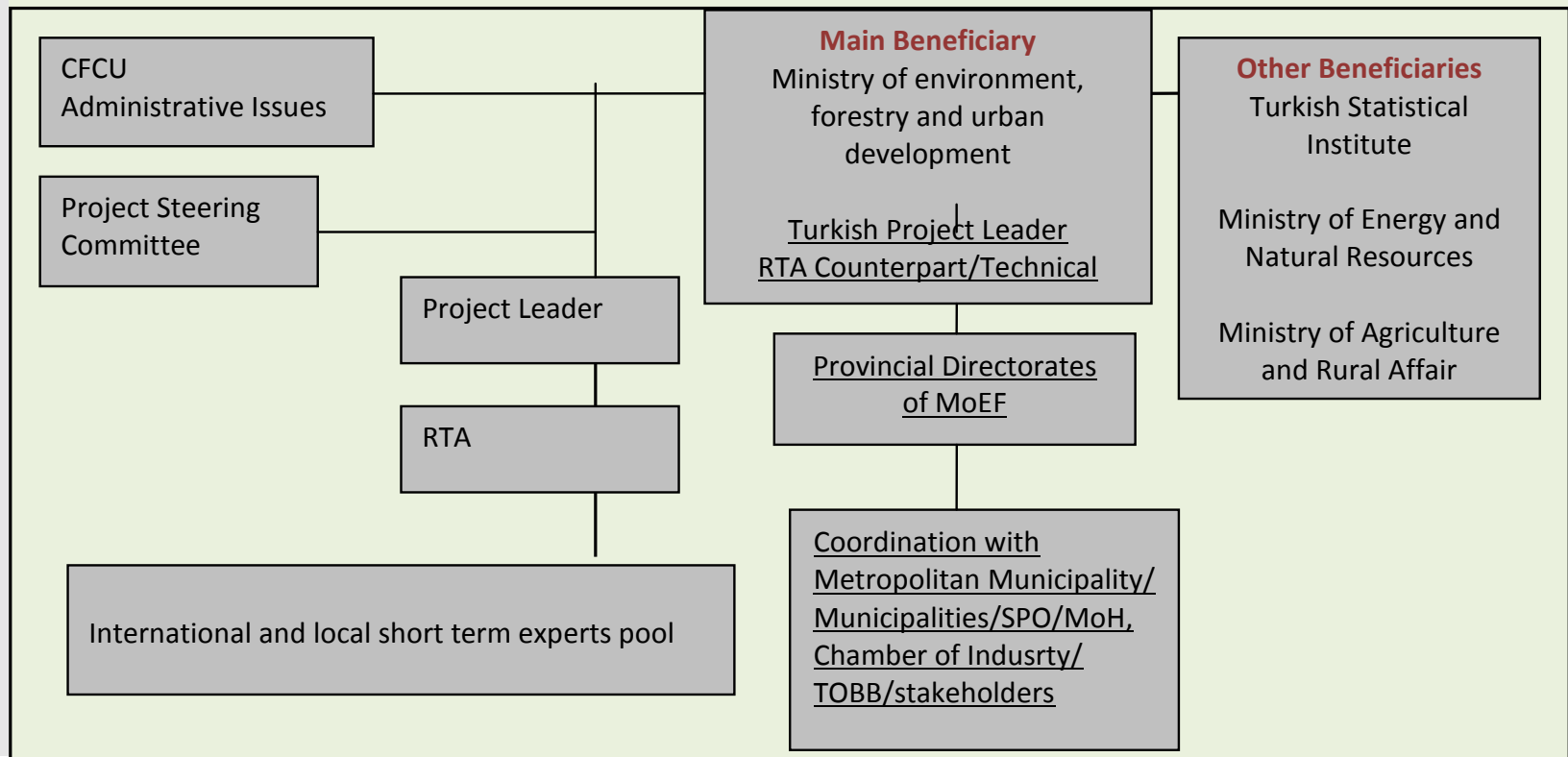
- Member State: **Finland**
- Institution: **Finnish Environment Institute, SYKE**

- Short term experts form Romania, Latvia and the Netherlands



Institutional Framework

"All activities depend on (...) good lines of communication with and between the various stakeholders of managerial and technical level"



Institutional Framework (2) – Related Projects

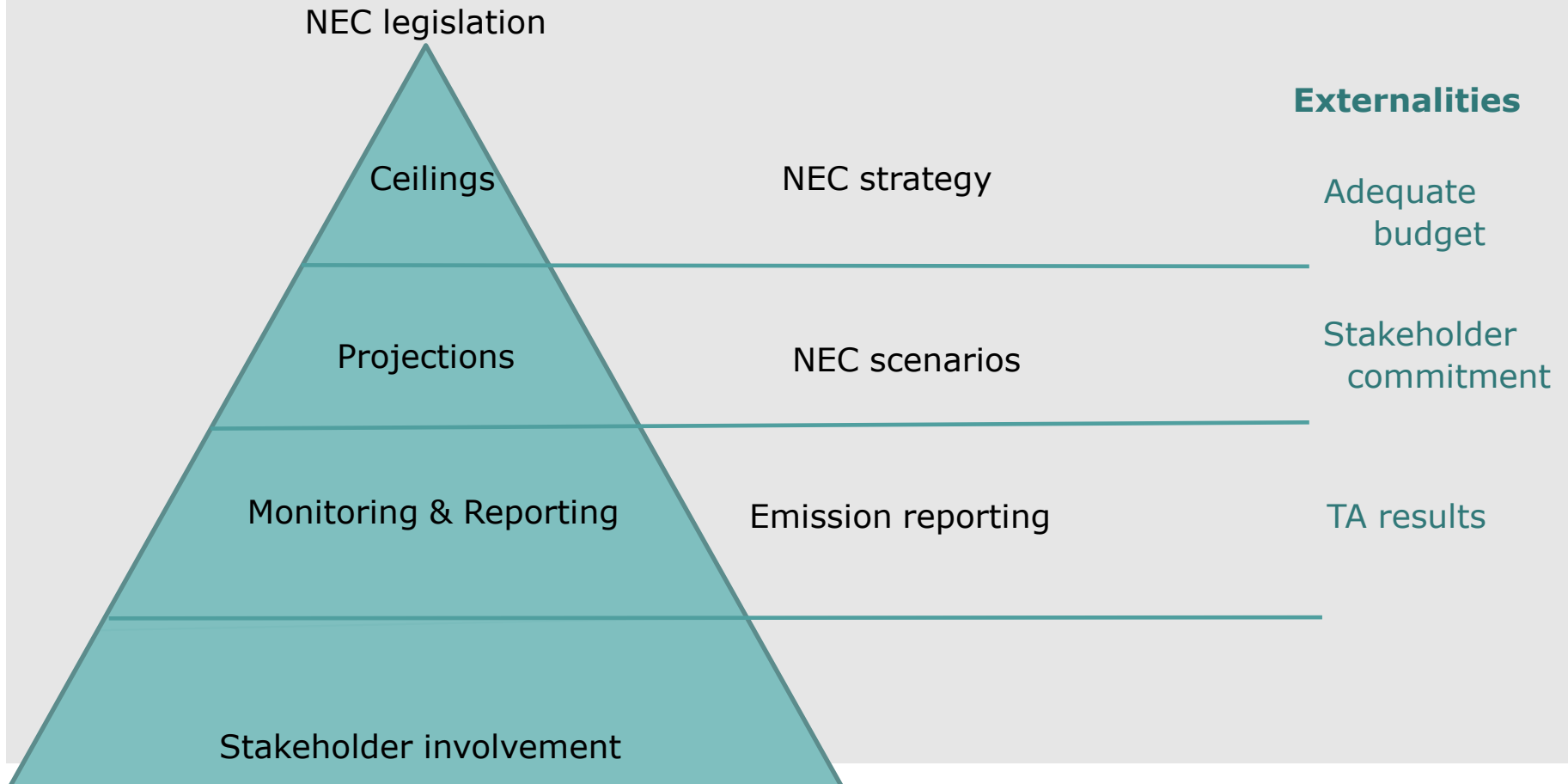
"(...) knowledge of all processes in the area of the acquis that the project deals with"

- (1) **TA** Project EuropeAid/128897/D/SER/TR, running
- (2) Institution Building on **Air Quality** in the Marmara Region (TR07IBEN02 on AQ), running
- (3) „IPPC – Integrated Pollution Prevention and Control“ (TR08IBEN03 on **IPPC**), running
- (4) Control of Industrial Volatile Organic Compound (**VOC**) Emissions, TR09IBEN01, starting now

Technical Assistance project

- The Twinning project is tightly linked to the Technical Assistance Project for Improving Emissions Control (EuropeAid/128897/D/SER/TR).
- Project leader: Russell Frost
- Time: 20 months
- The activities that are covered by the Technical Assistance Project include
 - emission inventory and projections using methodologies defined in the NEC Directive
 - cost-benefit analysis for the implementation of the NEC Directive
 - regulatory impact assessment report
 - guidelines for the effective usage of methodologies and models for the inventory and the projections
- **An excellent working basis with the TA project has been established**

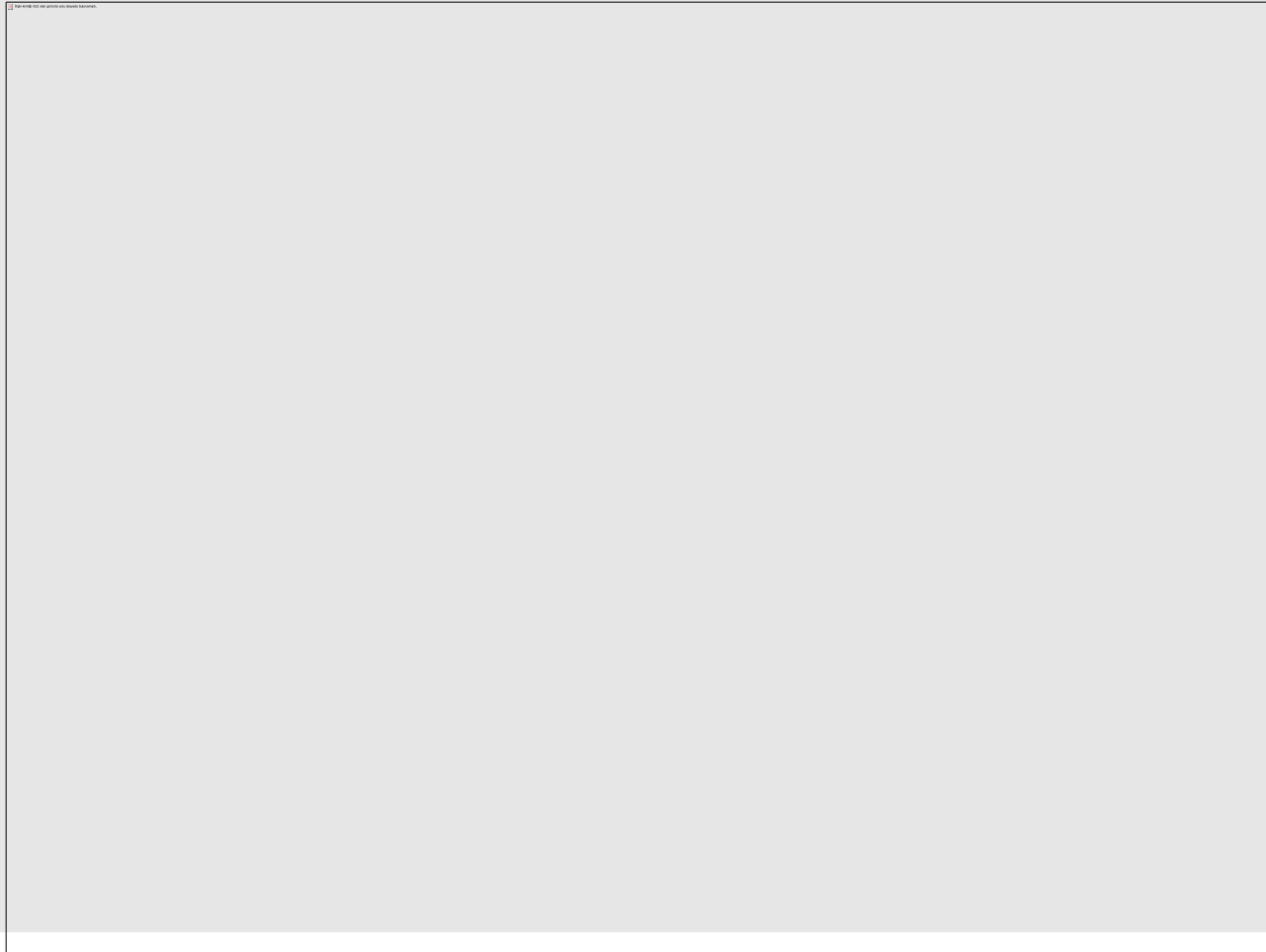
Improving Emissions Control: Step by step



Components of the project

- **Component 1:** Understanding of international 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
- **Component 2:** Establishment of the necessary capacity to prepare and manage the national NEC Directive inventory system and establishment of the capacity to compile, report and archive NO_x, NMVOC, SO₂ and NH₃ emission data
- **Component 3:** Establishment of the necessary capacity to develop a **strategic action** plan to reduce emissions of the pollutants regulated in the NEC Directive and to implement the action plan
- **Component 4:** Development of reporting capacity in line with the NEC Directive

General Achievements so far



General Achievements so far

- Project start: May 9th, 2011
- Very good cooperation with Turkish inventory experts
- Close contact to BC representatives
- Very good cooperation with TA project
- Inventory team is set up
- Successful air emission inventory submission under LRTAP
- Meetings of Coordination Committee
- Involvement of other ministries
- 63 missions undertaken covering all components
- Austrian study tour

Turkey's Informative Inventory Report (IIR) 2012



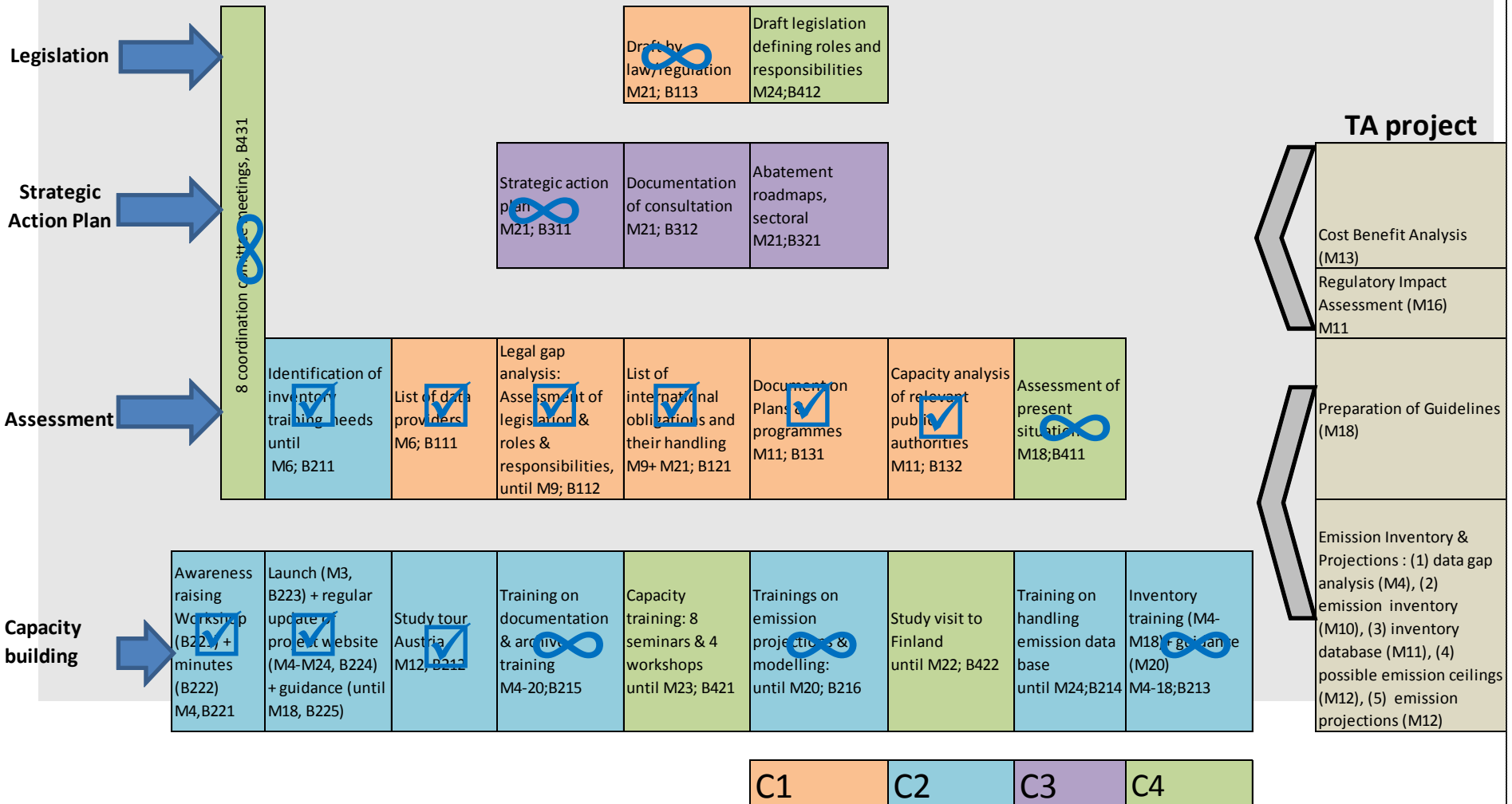
MINISTRY OF ENVIRONMENT AND URBANIZATION
GENERAL DIRECTORATE OF ENVIRONMENTAL MANAGEMENT

ANKARA, 2012

Congratulations!!

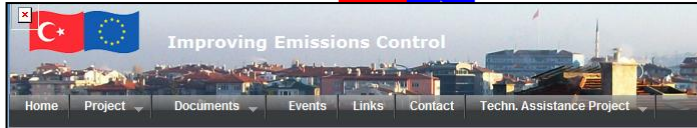
Improving Emissions Control

Twinning (TR 2008/IB/EN/02) and Technical Assistance (TR 802.03-2/001) Project



Products: several reports, website

TR 2008 IB-EN-02
"Improving Emission Control"



Improving Emissions Control - NEC Directive Implementation

The overall objective of the **Twinning project (TR 2008/IB/EN02)** is to "improve the environmental condition implementation and enforcement of the EU environmental acquis in the frame of ambient air quality." Desired condition meeting the EU standards set for ambient air quality towards further protecting human health and the environment. Turkish Ministry for Environment and Urbanisation the necessary capacity shall be established to implement the NEC Directive. The aim of this directive is to limit national emissions of sulphur dioxide (SO₂), nitrogen oxide (NO_x), volatile organic compounds (NMVOC) and ammonia (NH₃) in order to improve the protection of the environment and human health against effects from acidification, eutrophication and ground-level ozone.

The **NEC directive (2001/81/EC)** sets emission ceilings for the air pollutants NO_x, NMVOC, SO₂ and NH₃ for 2010 which are not to be exceeded in any year after 2010.

This project is co-financed by the European Union and the Republic of Turkey



umweltbundesamt

Soru Kağıdı

Bu soru kağıdı, Çevre ve Şehircilik Bakanlığı'nda kurulacak olan emisyon envanteri kapsamında, veri sağlayıcı, sektör yöneticisi ve/veya kullanıcı olarak yer alacak Türk uzmanların eğitim ihtiyaçlarının tanımlanması için hazırlanmıştır.

İsim: _____

email: _____

Lütfen 1. veya 2. öncelik olarak belirtin.

Eğitim Konusu	1. öncelik	2. öncelik
Koordinasyon ve Envanter Yönetimi	✓	
Aktivite verilerinin hazırlanması	✓	
Sektörlere göre hesap metodları:		
Enerji (ulaşım hariç)	✓	
Sanayi		✓
Çözücü madde kullanımı		✓
Tarım	✓	
Ulaşım	✓	
Atık		✓
Emisyon faktörlerinin kullanımına ilişkin rehber	✓	
Hesap Tablosu Uygulamaları	✓	
Veri tabanı yönetimi	✓	
Emisyon projeksiyonlarının hazırlanması	✓	
Kalite güvence/Kalite kontrol planının oluşturulması	✓	
Raporlama Amaçlı Veri Çekme	✓	
Dokümantasyon & Arşivleme	✓	
Önemli kategorilerin analizi	✓	
Diğer istekler		

Main Challenges

– Expert View

- Operate a “best-science” cluster within an important policy area
 - Accreditation for the inventory & standardize scenario methodology
 - Establish a “best-science culture”; honor expert’s choice
- Safeguarding resources
 - Active information of upcoming challenges
 - Standardize training for new-comers
- Implement review-results
 - Prepare an improvement plan
 - Have clear sector responsibilities

Main Challenges

– Policy View

- Deal with inventory/scenario-related changes
 - Inventory & Projections as best guesses
 - Politic needs stable basics
- Sectoral effort-sharing is a permanent task
 - Institutional set-up of inter-ministerial groups
 - Deal with over/under performance
- Get help from other sectors
 - In implementation all policy areas come together
 - Define what you need on top of other strategies (in particular climate change)

Next steps

- Next missions under Component 4 (continue work on institutional assessment report)
- Development of emission abatement roadmap and strategic action plan
- Settle Coordination board and install Working groups
- Continue inventory training, focus on projections
- Have a successful study tour and a good time in Vienna!

Contact & Information

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Umweltbundesamt
www.umweltbundesamt.at

Study Tour: Improving Emissions Control
Vienna ■ 12.6.2012