

Für Mensch & Umwelt

Umwelt
Bundesamt

WORKSHOP: Regional Training Seminar on National Systems for GHG inventories (and projections)

Institutional and procedural arrangement of the German National System on Emissions Inventories

Michael Strogies, Dirk Günther
German Environment Agency

Content

- **SHORT INTRODUCTION: WHAT IS IT ABOUT?**
- **THE NATIONAL SYSTEM: 3 LEVELS OF A MULTI-LAYER NETWORK**
- **INVENTORY MANAGEMENT BY THE SINGLE NATIONAL: HOW DOES IT WORK?**
- **SUMMARY - LESSONS LEARNED / RECOMMENDATIONS**

WHAT IS IT ABOUT?

A MULTI-PURPOSE SYSTEM

Implementation of Art. 5 (1) KP requirements in Germany

- COUNTRY SPECIFIC IMPLEMENTATION OF THE KYOTO-PROTOCOL
- AGREEMENT BY STATE SECRETARIES ON THE NATIONAL SYSTEM IN JUNE 2007
- IN-HOUSE DIRECTIVE 11/2005 OF THE FEDERAL ENVIRONMENT AGENCY
- CO-OPERATION AGREEMENTS OF THE SNE WITH OTHER INSTITUTIONS AND NGOS

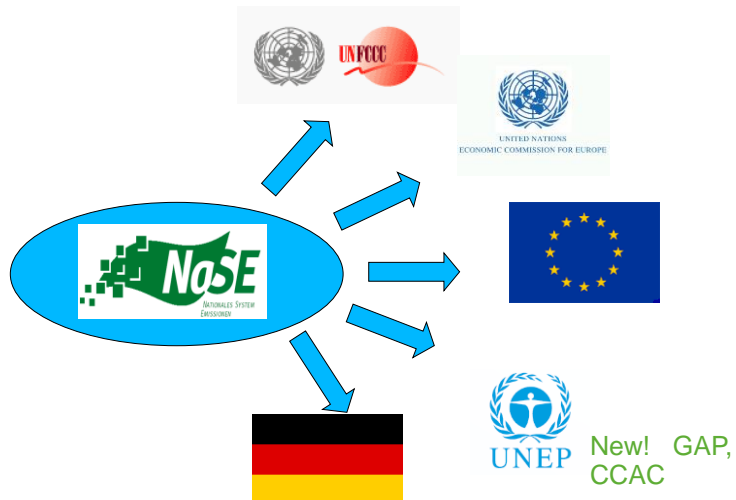
Unit on Emission Situation - The Single National Entity according Art. 5 (1) KP

FG I 2.6
Wörlitzer Platz 1
06844 Dessau,
Germany

12.6@uba.de



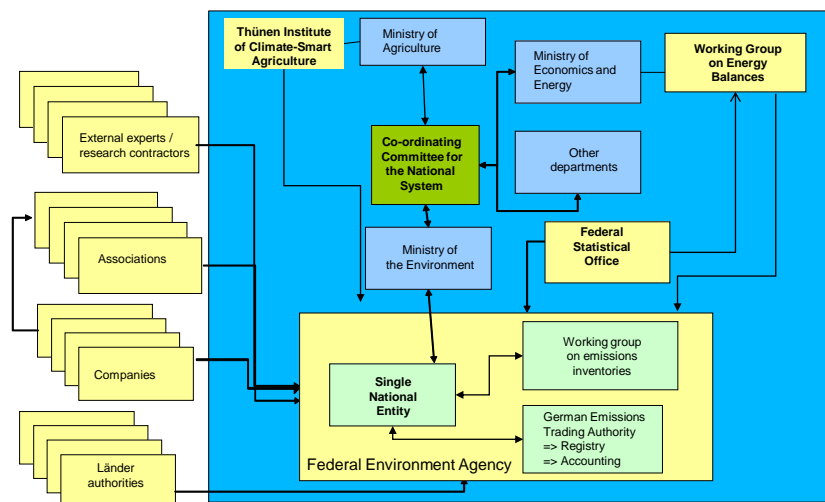
IT'S ONE SYSTEM FOR MULTIPLE REPORTING



HOW IS THIS ORGANIZED?

3 LEVELS OF A MULTI-LAYER NETWORK

Networking for a successful inventory building:
The German National System on Emissions (NaSE)



Networking for a successful inventory building 1st Level (A): The Single National Entity

Different responsibilities :

coordination :

National System

QA/QC

Database Management

Report compilation

Capacity building (within UBA, national and international)



source category oriented:

Energy (stat., mobile and fugitives)

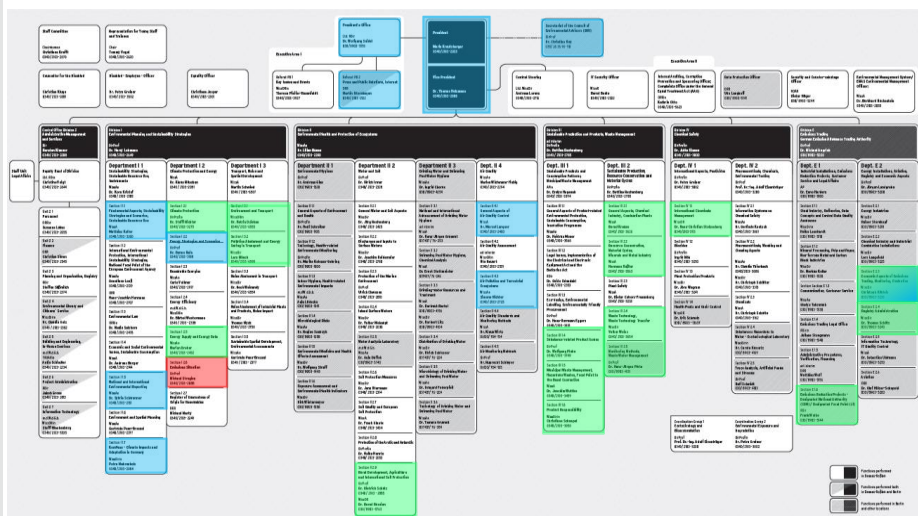
Industrial processes + solvent use (split over 4 colleagues)

Agriculture + LULUCF (external cooperation)

Waste (-water and disposal management)

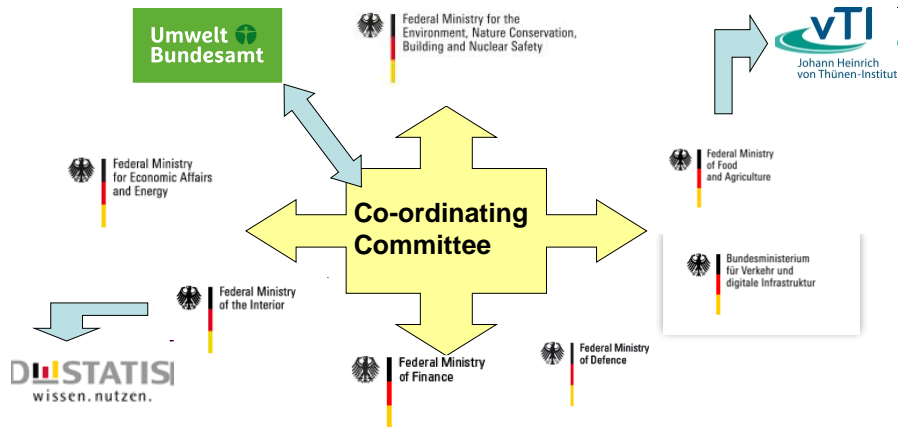
Networking for a successful inventory building 1st Level (B): The Federal Environment Agency

http://www.umweltbundesamt.de/sites/default/files/medien/378/dokumente/151008_engl_cc.pdf



Networking for a successful inventory building

2nd Level: the Co-ordination Committee of the Federal Ministries



Networking for a successful inventory building

2nd Level: Administrative Agreement with the Federal Statistical Office

AGREEMENT MAINLY TO ENABLE THE PROVISION OF CONFIDENTIAL DATA

DETERMINE "NEW RULES" IN DATA HANDLING

=> Transfer of responsibility for statistical confidentiality to the SNE

DEFINITION OF DATA REQUIREMENTS OF THE FEDERAL ENVIRONMENT AGENCY

DEFINITION OF THE QA / QS SYSTEM TO BE IN PLACE AT THE FEDERAL STATISTICAL OFFICE

UPDATE OF THE DATA REQUIREMENTS ON AN ANNUAL BASIS

Networking for a successful inventory building
3rd Level: Co-operation agreements with industry

**SEVERAL CASE SPECIFIC CO-OPERATION AGREEMENTS WITH
BUSINESS ASSOCIATION AND ENTERPRISES**

MAINLY IN THE INDUSTRIAL PROCESSES SECTOR

ENABLING REPORTING ACCORDING TO TIER 3 METHODS

HOW DOES IT WORK?

**THE MANAGEMENT OF
THE NATIONAL SYSTEM**

Responsibilities of the Single National Entity

- **SERVE AS CENTRAL FOCAL POINT FOR ALL INVENTORY AND REPORTING ISSUES**
- **ASSURE AND COORDINATE INFORMATION AND DATA FLOW**
- **SET UP FRAMEWORK OF INVENTORY PLANNING**
- **DETERMINE STANDARDS**
- **ASSURE CENTRAL DOCUMENTATION**
- **ASSURE CENTRAL ARCHIVING**
- **INITIATE AND ASSURE INVENTORY IMPROVEMENT (QA/QC)**
- **COORDINATE INVENTORY ISSUES FOR REVIEW**
- **SUBMISSION AFTER GOVERNMENTAL CONSULTATION**
- **CAPACITY BUILDING ACTIVITIES**
- **LINK BETWEEN CLIMATE AND CLEAN AIR POLICY**

Instruments of the Single National Entity

CENTRAL SYSTEM ON EMISSIONS (CSE)

- **EMISSIONS CALCUALTION AND –REPORTING**
- **STORAGE AND ARCHIVING OF ALL INVENTORY INFORMATION**

QUALITY SYSTEM ON EMISSION INVENTORIES (QSE)

- **IMPLEMENTATION OF GOOD PRACTICE GUIDANCE FOR INVENTORIES**
- **PREPARATION OF A NATIONAL IMPROVEMENT PLAN**

QSE: Role concept and checklists

SOURCE SPECIFIC EXPERT (FV)

- Data collection, data entry, estimations and making of NIR texts, QC checks

QC RESPONSIBLE HEAD OF THE SECTION (QKV)

- QC checks on completed data and texts and approval of these

SOURCE SPECIFIC CONTACT PERSON (FAP)

- Mentoring and supervision of FV and QKV
- Give assistance on the requirements and on the preparation of data & texts

COORDINATOR FOR THE NATIONAL INVENTORY REPORTING (NIRK)

- Compilation of the NIR, Overall QC on NIR texts, QC checks

COORDINATOR FOR THE CSE (ZSEK)

- Maintain the data bank, emission estimation and aggregation

COORDINATOR FOR THE QSE (QSEK)

- Maintain and improve the QSE (System, Checklists, IP, QA/QC plan, Handbook)

COORDINATOR FOR THE NASE (NASEK)

- Ensuring institutional arrangements and a timely reporting that is in accordance with the requirements

SUMMARY !

LESSONS LEARNED → RECOMMENDATIONS

- **START !!! IT'S AN ITERATIVE PROCESS !!!**
- **GOVERNMENTAL TASK !**
- **PAY ATTENTION TO NATIONAL CIRCUMSTANCES,**
- **INVOLVE AS FAR AS POSSIBLE EXISTING INSTITUTIONS AND EXPERTISE,**
- **TRY TO FIX SUSTAINABLE COOPERATION AND RESPONSIBILITIES !**
- **CREATE AN ANNUAL ROUTINE (TIME LINE, RESPONSIBILITIES...)**
- **STEPWISE APPROACH:**
 - → be complete → appropriate methods → improve quality
- **DEVELOP AN IMPROVEMENT PLAN (SPLIT TASKS TO SHORT-, MEDIUM- AND LONG-TERM)**
- **USE INTERNATIONAL EXPERTISE: REVIEWS, AUDITS, PROJECTS, ...**
- **CONNECT YOUR WORK TO NATIONAL STRATEGIES (ENERGY, CLEAN AIR... PROJECTIONS)**
- **BE PATIENT → IT'S IMPOSSIBLE TO BE PERFECT FROM THE SCRATCH !!**

**Umwelt
Bundesamt**

**Thank you
for your attention !**

Dirk Günther
Coordinator National System on Emission Inventories
Federal Environment Agency
Unit I 2.6 "Emission Situation"
dirk.guenther@uba.de

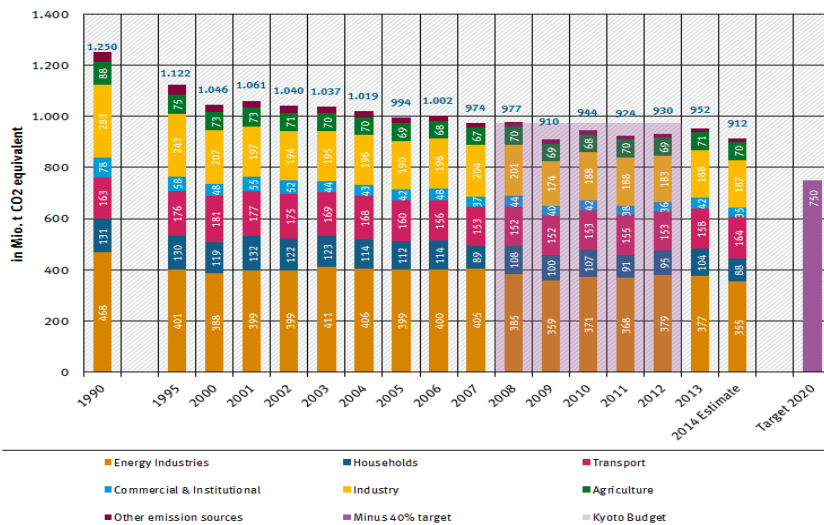
www.uba.de/emissionen

Michael Strogies
Head of section „Emission Situation“
michael.strogies@uba.de

BACKUP

Trends of the Greenhouse Gas Emissions in Germany

categorized by sector, according to the Action Programme Climate Change 2020 *



* The breakdown of emissions differs from the UN reporting standards, but the total emissions are identical

Quelle: Umweltbundesamt 02.06.2015

Dealing with confidential data

- **STORAGE AND USAGE OF THIS DATA REQUIRES SPECIAL PROCEDURES TO PROTECT CONFIDENTIALITY AND ASSURE COMPLETENESS OF INVENTORIES**
 - Strict separation of analysis and enforcement
 - Restricted access to these data
- **SNE HAS TAKEN A RANGE OF MEASURES TO FULFIL THESE REQUIREMENTS**

⇒ CODIFICATION IN A CONCEPT

