Data access and emission inventory in the Transport sector
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How to stabilize data flow: insights in the German institutional arrangements

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Section I 2.6 – Emissions Situation
Introduction to the Network of the German National System

- What is it about?
- How is this organized?
- How does it work?

Details on the Institutional Arrangements for data supply and Quality Management

- Arrangements regarding official statistics
- Cooperation agreements and voluntary commitments
- Dealing with confidential data
- Data sources for mobile emission sources
WHAT IS IT ABOUT?

A MULTI-PURPOSE SYSTEM
Introduction: What is it about?

One System for multiple reporting
Country specific implementation of the institutional arrangements in Germany

Agreement by State Secretaries on the National System in June 2007

Obligatory usage of existing data flows

Co-operation Agreements
HOW IS THIS ORGANIZED?

3 LEVELS OF A MULTI-LAYER NETWORK
Networking for a successful inventory building: The German National System on Emissions (NaSE)

Introduction: How is this organized?

Federal Environment Agency (Umweltbundesamt / UBA)

Thünen Institute of Climate-Smart Agriculture

Ministry of Agriculture

Co-ordination Committee for the National System

Ministry of the Environment

Ministry of Economics and Energy

Working Group on Energy Balances

other departments

Federal Statistical Office

Working group on emissions inventories

German Emissions Trading Authority (DEHSt) => Registry & Accounting

Länder authorities

Companies

Associations

External experts / research contractors
HOW DOES IT WORK?

THE MANAGEMENT OF
THE NATIONAL SYSTEM
Details on the Institutional Arrangements: Make use of existing data flows

Main data source is the official statistics of the Federal Statistical Office

Supplemented by semi-official statistics
- Official statistics of association
- Publicly available data

Cooperation agreements with the industry
Details on the Institutional Arrangements: 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 by the Federal Environment Agency
  • Update of the data requirements on an annual basis

Definition of the QA / QS System to be in place at the federal statistical office
The energy balances in Germany are compiled by a non-governmental institution

The „Working Group on Energy Balances“ (Arbeitsgemeinschaft Energiebilanzen e.V. - AGEB -), founded in 1971. So there is an experience since almost 40 years.

Members of the AGEB are four associations of the energy industry (with two supporting associations) and four research institutes.
Details on the Institutional Arrangements:
Organizations Involved in Energy Statistics

- Ministries
  - Economics - BMWi -
  - Environment - BMUB -
  - Agriculture - BMVEL -
  - Interior - BMI -

- Official statistical institutions
  - Federal Office of Economics (BAFA)
  - Federal Statistical Office
  - Statistical Offices of the Länder
  - AGEE (Statistics for Renewable Energies)

- Semi-private institutions
  - Statistics of Coal Industries
    - Working Group on Energy Balances (AGEB)
  - Associations:
    - Oil (MWV), Electricity & Gas (BDEW), etc.
How does it work? Management of the National System

3rd Level: Co-operation agreements with industry

several case specific co-operation agreements with business association and enterprises

mainly in the IPPU

enabling reporting according to TIER 3 methods
Details on the Institutional Arrangements: Cooperation Agreements with enterprises and business associations

**Codified Cooperation Agreements**
- preferred form of cooperation with the private sector
- Agreements with 5 business association and 3 enterprises
- establish details on the cooperation, data provision, QA/QC information and contact information

**Voluntary Commitments**
- early model of cooperation with the private sector
- discontinued model: successive replacement by formal cooperation agreements
- Associations commit themselves to provide annually activity data
- Information on QA/QC are not settled, but were provided separately
Inventory Management: Dealing with confidential data

Emissions are in general NOT confidential. However, activity data and emission factors may be confidential.

Storage and usage of 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 confidentiality concept
- Detailed user rights management in the database
- Restricted access to stored information
How does it work? Management of the National System

Activity data sources for Mobile Sources

• generally: AD from National Energy Balance (NEB)
or underlying statistics (Official Mineral Oil Data, AMS)

• thereof used directly
  – NEB line 62 – Straßenverkehr → CRF 1.A.3.b – Road Transport
  – NEB line 61 – Schienenverkehr → CRF 1.A.3.c – Railways
  – NEB line 66 – Haushalte → CRF 1.A.4.b ii – Residential – Off-Road Vehicles & Other Machinery

and

AMS fuel deliveries „an das Militär“ → CRF 1.A.5.b – Other – Mobile: Military

• all other sub-categories:

  primary AD (PAD) available from NEB, but additional breakdown needed
Thank you very much for your attention

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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 & assure inventory improvement (QA/QC)
- coordinate inventory issues for review
Introduction: How is this organized?

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