Supporting the Development of MRV-Systems in the Transport Sector

Status report

Background

Establishing suitable Measurement, Reporting and Verification (MRV) systems [1] in emerging and developing countries is one of the biggest challenges to development of nationally appropriate mitigation actions (NAMAs) in the transport sector. The development of NAMAs requires approaches for MRV that allow a sound and consistent tracking of GHG emissions and reductions, as well as of sustainable development benefits. But every country is different, including different data systems and institutions in charge of greenhouse gas (GHG) emission accounting. Against this background, the TRANSfer project aims to lower the barriers to establish MRV systems in the transport sector and thereby facilitate developing and implementing transport NAMAs. This paper gives a short overview of the activities achieved so far or underway in the MRV workstream of TRANSfer.

MRV Expert Group

TRANSfer established an expert group on MRV of transport NAMAs with a first meeting held in Warsaw in November 2013 to identify desired outputs of the MRV workstream. Members of the expert group come from organisations that engage in NAMA development and MRV in the transport sector, such as IEA, UNEP, UNEP-DTU, UNECE, WRI, CCAP, INFRAS, Grütter Consult, etc. as well as experts from developing countries such as the Philippines, Indonesia, South Africa, Mexico or India. The experts gather roughly every six months to develop a common understanding on different aspects related to MRV of transport NAMAs, report from their own activities in the field, exchange ideas and comment on (interim) results of TRANSfer outputs. The MRV expert group ensures a high quality and relevance of MRV-related outputs of the TRANSfer project.

The second expert group meeting took place in Leipzig in May 2014. The May meeting discussed MRV approaches in Columbia, Mexico, Indonesia and Thailand, as well as concrete steps towards the development of MRV blueprints for transport NAMAs and the Reference Document for Monitoring Systems in the Transport Sector (see further below). The next expert group meeting is planned to be held in March 2015.

More information on the MRV expert group and its members can be found at: http://transport-namas.org/measuring-reporting-and-verification-mrv-expert-group/

[1] Transport MRV Systems include transport GHG inventories, transport demand data (VKT by mode, load factors etc.) as well as approaches for scenarios and monitoring of measures.

Reference Document for Monitoring Systems in the Transport Sector

TRANSfer supports an effort across several renowned institutions and authors in the field to develop a guide for establishing national MRV systems in the transport sector. The Reference Document is meant as a "one-stop-shop" on how to develop comprehensive and consistent national systems for monitoring transport-related emissions, including, but not limited to MRV of transport NAMAs.

The document builds on existing knowledge and lessons learned in ongoing NAMA activities and experiences in GHG emissions quantification in the transport sector in developed and developing countries. Coordinated by Jürg Füssler (INFRAS) und Sudhir Sharma (UNEP DTU Partnership) as lead authors, the document integrates the knowledge and experiences from co-authors from CCAP, GIZ, Grütter Consulting, the ICCT, Öko Institute, the UNFCCC Secretariat, WRI/EMBARQ, as well as individual consultants Marion Vieweg (Germany) und Sudhir Gota (India).

A draft structure for the Reference Document had been circulated amongst the MRV Expert Group for feedback in late summer 2014. The document covers a comprehensive introduction to *key data and parameters for monitoring transport systems*, discussing also the *institutional setting for transport sector monitoring*, including *examples*. The next chapter elaborates *how to use transport data for national GHG inventories*, before continuing with *how to use transport data for MRV of measures*. The last chapter looks into *organising an iterative process for monitoring and reporting of emissions and the impacts of mitigation measures* – essentially describing the minimum requirements for data collection and a step-wise approach to building up a MRV system, which can be used to develop country roadmaps towards establishing MRV systems in the transport sector.

A first internal draft of the Reference Document has already been developed and a draft for comments is planned to be circulated among the members of the expert group at the end of January 2015.

MRV Blueprints for Transport NAMAs

TRANSfer initiated the development of several MRV blueprints for transport NAMAs. Aim of the blueprints is to provide NAMA developers with ready-to-use methodologies for different transport NAMAs in order to decrease transaction costs of NAMA development and foster replication. GIZ supports the development of a first set of blueprints, but other actors are also encouraged to apply the blueprint approach in their NAMA activities.

The MRV blueprints complement the Reference Document with detailed step-by-step documentation of MRV methodologies for different transport interventions.

Blueprints currently under development include MRV methodologies for:

- Shift to rail, using the example of rail sector expansion in India (authored by Jürg Grütter);
- The introduction of low rolling resistance tires for heavy duty vehicles, using the EU as example (authored by Frank Dünnebeil from IFEU);
- National urban transport programmes with a case study country yet to be defined (authored by GIZ).

The first set of blueprints as well as mechanisms for peer review and quality assurance of blueprints will be discussed at the next meeting of the MRV expert group in March 2015.

Case studies on establishing MRV systems in developing countries

TRANSfer supports the development of case studies on establishing MRV systems in the transport sector to facilitate peer learning and to demonstrate applicability. Case studies are developed in cooperation with TRANSfer partner countries, such as Peru and Indonesia as well as with other GIZ projects, such as the BMZ-funded project *Transport and Climate Change in the ASEAN Region* in Thailand, the NAMA-Facility

funded project NAMA-SUTRI in Indonesia or the BMUB funded project *Capacity Development for MRV Inventories and MRV* in Tunisia. First case studies on establishing MRV systems in the transport sector are planned to be published in 2015. In addition to GIZ activities, TRANSfer would be glad to also include and promote case studies from other project contexts.

Training on quantifying transport-related emissions

TRANSfer with support of the Sustainable Transport team of GIZ China (working on urban GHG inventories and scenario assessment in the transport sector) organised a first training on *Quantifying Urban Transport GHG Emissions* for participants from Africa, Asia, Europe and Latin America. The training took place in Leipzig in May 2014. Further trainings and training formats may be developed based on the reference document and the MRV-blueprints.

The TRANSfer Project

The TRANSfer project is run by GIZ and funded by the International Climate Initiative of the German Ministry for the Environment (BMUB). Its objective is to support developing countries to advance climate change strategies in the transport sector as Nationally Appropriate Mitigation Actions (NAMAs). The project provides technical assistance in the partner countries Indonesia, Columbia, Peru and South Africa. In addition, TRANSfer contributes to the international exchange of national experiences through workshops, publications and trainings.

For more information on the MRV workstream contact: daniel.bongardt@giz.de

For more information on TRANSfer see: http://transport-namas.org/

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety