A Comparison of Various MRV Systems in the Context of ETS Designing and Linking – Development of a „Good Practice“

13-14 October 2014 – Berlin, Germany
Introduction to the UBA Research Project:

“International Comparison of Monitoring, Reporting and Verification Approaches in Emissions Trading Systems”
(UFOPLAN FKZ 3712 41 505)

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In principle, monitoring, reporting and verification (MRV) is needed for the enforcement of every climate policy instrument.

MRV systems on the facility level have emerged in many countries not only as a basis for national or regional emissions trading systems (ETS), or they are currently developed as pilot projects.

A lot of information exchange, training and consulting activities worldwide by different institutions are supporting this process where DEHSt actively participates.

UBA research project intends now to contribute to mutual understanding with the identification of key design elements and their configurations in different countries and will finally assess the essential elements that ensure accuracy, reliability, credibility of GHG emissions data.
Target of the Project in detail

- The research project will compare and evaluate different MRV approaches of selected systems (worldwide) including a collection and analysis of main legal aspects, the comparison of compliance cycles as well as third party verification systems.

- As a result, quantitative and qualitative differences will be determined in order to demonstrate methodological differences and adaptation which is required in the case of linking.
**PROJECT OVERVIEW**

- **Duration**: October 2012 to August 2015
- **Research Institutions**: FutureCamp Climate GmbH, TÜV Nord Cert GmbH
- **Four Work Packages**:  
  - Carbon market profiles  
  - Four in-depth analyses  
  - Guidebook on MRV design and linking, and  
  - International conference/workshop
WORK PACKAGE 1: CARBON MARKET PROFILES

Carbon Market Profiles
Profiles on 12 national/regional ETS regarding their MRV approaches, in detail AUS-CPM, CAL, RGGI, EPA-GHGRP, Kazakhstan, South Korea, New Zealand, Quebec, Tokyo, Shanghai, Shenzhen, Guangdong on:

- Legal status
- Scope
- Compliance cycle
- Monitoring methodology
- Verification, accreditation
- Sanctioning procedure
**Work Package 2: 4 In-Depth Analyses**

Four In-Depth Analyses

- California Greenhouse Gas Cap and Trade Programme
- Australia`s Carbon Pricing Mechanism
- National Emissions Trading Scheme of **South Korea**
- Shanghai Pilot Emission Trading Scheme

in contrast to the EU ETS in order to evaluate differences in MRV quality.
Guidebook on MRV design and linking

- Based on WP 2 all discovered MRV elements will be displayed in order to demonstrate the MRV variety around the world.
- In a second step the observed differences in MRV are assessed with regard to link those ETS.
- Including a recommendation on the minimum requirements for linking.
Work Package 4: Conference/Workshop

Workshop

- **Purpose**: Discussion of MRV approaches in worldwide ETS regarding quality and barriers for linking.
- Identification of key elements for MRV Systems.
- Input for Guidebook on MRV design and linking.
Thank you for your attention!

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