

# ANALYSING TRANSFER FLOWS OF THE SWISS EMISSION TRADING REGISTRY: WHAT CAN WE LEARN ABOUT THE CARBON MARKET UNDER THE KYOTO PROTOCOL?

Regina Betz, Center for Energy and the Environment (CEE), Zurich University of Applied Sciences (ZHAW), [betz@zhaw.ch](mailto:betz@zhaw.ch)

## Overview

Since 2007, companies and private individuals from anywhere in the world have been able to open an account in the Swiss Emissions Trading Registry. The accounts allowed the owner to hold and transfer different types of greenhouse gas units, namely:

- 1) Certified Emissions Reductions (CERs) generated on the basis of emission-saving projects in developing countries on the basis of the Clean Development Mechanism (Article 12 of the Kyoto Protocol),
- 2) Emission Reduction Units (ERUs) generated on the basis of Joint Implementation projects pursuant to Article 6 of the Kyoto Protocol. The main difference between ERUs and CERs is that ERUs are generated by converting AAUs of the host country and thus no additional allowances are created,
- 3) Assigned Amount Units (AAUs), which were issued by the countries obliged under the Kyoto Protocol according to their targets and which were allowed to be traded internationally in accordance with Article 12 of the Kyoto Protocol.
- 4) Swiss emission allowances (so-called CHUs), which have been issued to Swiss companies covered by the cap and trade scheme under the CO<sub>2</sub> Act.

The aim of this paper is to analyse the trading flows of both national and international emissions allowances and international emission credits in order to gain a picture of Switzerland's role in international emissions trading in 2007-2014. So far Borghesi and Flori (2018) and Liu et al (2018) have applied network analysis to the registry data of the EU emissions trading system. However, there is very little knowledge on the actors and trading flows under the Kyoto Protocol. It is expected that such a better understanding will allow us to understand impacts on the design of Article 6 under the Paris Agreement. Given that the Swiss Registry was a major market place for international emission credits and international emissions allowances we use data from the Swiss Emissions Trading Registry for the period 2007 to 2014 (Figure 1). The data was made available anonymously by the Federal Office for the Environment.

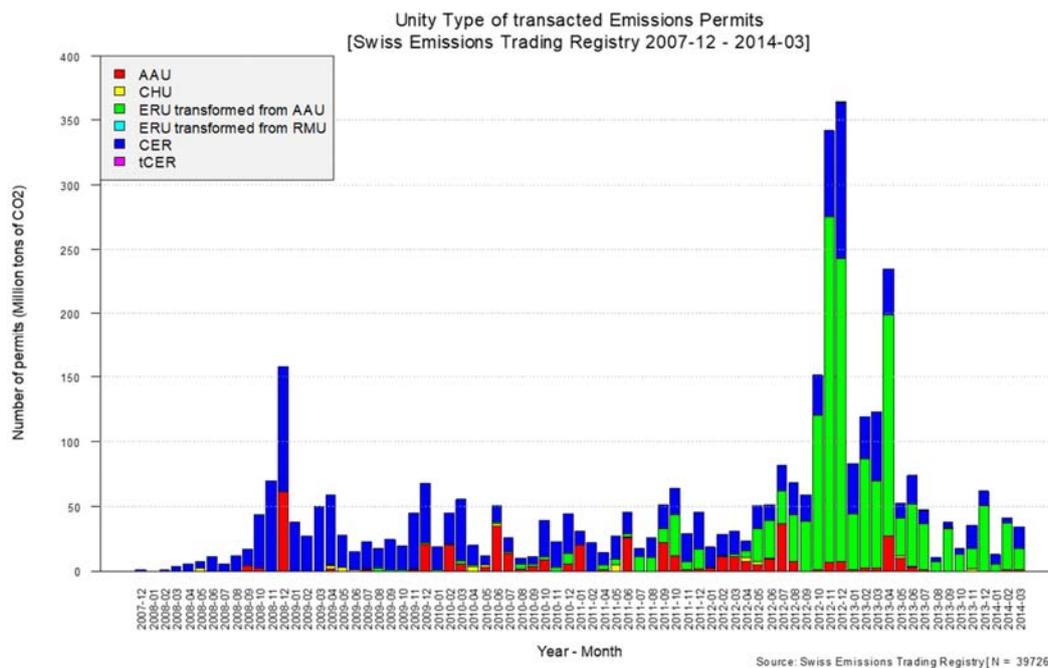


Figure 1: Swiss Registry Transfers (2007-2014)

