

# How could emissions trading benefit developing countries<sup>☆</sup>

Cédric Philibert\*

*Energy and Environment Division, International Energy Agency, 9 rue de la Fédération, Paris Cédex 15, France*

Received 26 January 2000

## Abstract

This paper aims to show how an emissions trading system could work if some participating entities are allocated an “emissions budget” or non-binding target. This will allow them to sell allowances if their actual emissions are less than their budget, but will not obligate them to buy allowances if their emissions exceed their budget. Different rules aiming at ensuring the environmental integrity of such a system are considered. Parties to the Framework Convention on Climate Change may wish to consider building a regime where developing countries are allocated emissions budgets on some provisions of the Kyoto Protocol and in full respect with the principles of the Convention. In any case such system would be complementary to the Clean Development Mechanism. The potential benefits would be

- to provide non-Annex-I (developing) countries with substantial capital inflows, and stimulate their economic growth;
- to allow Annex-I (Industrialised) Countries achieving their Kyoto commitments at the lowest possible cost;
- and to achieve global participation towards the objective of the Convention while reducing the risk of creating “tropical hot air” by giving some developing countries more allowances than they need under a “business-as-usual” scenario. © 2000 Elsevier Science Ltd. All rights reserved.

*Keywords:* Climate change; Emissions trading; Developing countries

## 1. Introduction

This paper shows that, from a technical standpoint, it is possible to mix two categories of stakeholders in a single emissions trading system: some participants with firm limits on their emissions, some others with emissions budgets or “non-binding targets”. It shows further that, if the Parties to the Convention wished to elaborate such a system on the Kyoto Protocol provisions, by defining ways to allocate emission budgets to some developing countries, this could be beneficial to

- non-Annex-I countries, by providing them substantial capital inflows through emissions trading, therefore stimulating their economic growth;

- Annex-I countries, by reducing the cost of achieving their commitments;
- the Climate itself, by encouraging developing countries to abate more emissions through mutually beneficial trading, while not bringing huge amounts of emission allowances in excess (or “tropical hot air”) in the international trading system.

The idea of emissions budgets is that developing country Parties with such budgets would be allowed to sell allowances if their actual emissions are less than their budgets, but would not have to buy allowances if their actual emissions are more than their budgets.

Emissions trading is an “economic instrument for environmental protection”. Emissions trading should by no means be viewed as an exclusive policy instrument; other policies and measures (command and control, standards, etc.), other economic instruments (taxes, charges, etc.) are also needed for environmental protection. Emissions trading also does not mean that “the markets would solve everything if there were no perverse governmental action”. On the contrary, emissions markets mix governmental or intergovernmental decisions to adopt an

<sup>☆</sup>An earlier draft of this paper was presented at the Fourth OECD/IEA Forum on Climate Change in March 1999. It is available at [www.oecd.org/env/docs/cc/philibert.pdf](http://www.oecd.org/env/docs/cc/philibert.pdf)

\*E-mail address: [cedric.philibert@iea.org](mailto:cedric.philibert@iea.org) (C. Philibert).

environmental objective, and the market's forces to allow societies reach the objective at the lowest possible cost. Economic instruments allow us to reach a given environmental objective at a lower cost, or to achieve a better environmental performance at a given cost. Lowering the cost of achieving a given environmental objective will save scarce resources, which can be used for other urgent needs, especially in developing countries. Enhancing the environmental performance at a given cost is our responsibility to those who suffer the most from a damaged environment: the poor, and the future generations. The development and implementation of sound economic instruments for environmental protection is the cornerstone of sustainable development — which is nothing more than reconciling economic development and the environment.

As Climate Change is one of the most important environmental threats today, one must devote all efforts to build an efficient, cost-effective international regime to face this threat through mitigation and adaptation, upon the provisions of the Kyoto Protocol which have been agreed to by all Parties. This can only be done by accepting the principle of “common, but differentiated responsibilities” of the different countries of the World that has been established by the Framework Convention on Climate Change.

In this paper, we first examine how developing countries could become involved in emissions trading while not taking on any new commitments, through the definition of “emissions budgets” and look at this option in relation to the Clean Development Mechanism (Section 2). We further examine how such emissions budgets could be negotiated for developing countries (Section 3). We then look at some legal issues involved in building such a system under the provisions of the Kyoto Protocol (Section 4). We finally devote some considerations to the relationship between negotiating emission budgets for developing countries and the question of “supplementarity” (Section 5).

## 2. Emission budgets and emission limits: where they differ

Would it be possible for developing countries to be involved in emissions trading without taking a firm, binding commitment on their emissions?

At first sight, this seems to be impossible. In all existing tradable permit schemes, all participants do have a commitment. They have a limit on their emissions, and this is why they can trade emission allowances — they can buy some allowances if their actual emissions are above their allowed level, or sell allowances in the opposite case. This is also the reason why such systems are often called “cap-and-trade” systems. And obviously, an entity could not enter an allowance trading system with an unlimited amount of allowances that it

could put on the market, without destroying the system itself.

### 2.1. The concept of an emission budget

However, one may distinguish the tradable allowance allocation, on the one hand, and the imposition of a limit on actual emissions, on the other hand. Some entities could be given a finite number of allowances for trading purposes, while not being given a true limit on emissions — provided that some other entities — at least one — were given or accepted some limits, therefore creating potential buyers, as well as sellers. Any entity with no cap on its emissions would not be a potential buyer, only a potential seller — if its actual emissions are less than its allocated amount. And if its actual emissions are more than its allocated amount, it will not enter the trading market, for it will not be in a position to sell anything, and will not have to hold allowances for its emissions.

Therefore, it seems technically possible to conceive a tradable permit system where some entities are given a true limit on their emissions, or take a firm, legally binding commitment regarding their emissions, while others, through a negotiating process, are eventually given an “emissions trading budget”.

Parties to the Convention may wish to consider such a system that could be elaborated under the provisions of the Convention and the Kyoto Protocol, for involving developing countries in emissions trading while not “*introducing any new commitment*” on their behalf.

The most important difference between negotiating emissions limits and negotiating emissions budgets arises from the fact that there must be some period of time between negotiating budgets and their coming into existence. Abatement options, investments and policies will take some time to produce their effects; therefore, defining very short-term budgets would be meaningless.

We detail below in (Section 3) some important consequences of this difference. For now, let us just consider, for example, that such budgets are negotiated in 2000 or 2002 for a “budget period” 2008–2012. Many developing countries would refuse to negotiate a firm, legally binding limit on their emissions at that time because they fear a potential restraint on their economic development. The key point here is the uncertainty on the effects and costs of abatement policies and options — as well as the more general uncertainty on economic growth.

However, the same countries may wish to consider negotiating emission budgets. They would then have an incentive to develop sound abatement policies, with the possibility of being able to sell some allowances if their actual emissions in the budget period turn out to be less than their budget. But they will not face any “non-compliance” procedures or even be blamed if their actual emissions turn out to be more than their budget.

متن کامل مقاله

دریافت فوری ←

**ISI**Articles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات