SUMMARY of

The Transition to a Green Economy: Benefits, Challenges and Risks from a Sustainable Development Perspective

Report by a Panel of Experts*

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*The views expressed in this report are solely those of the authors and do not necessarily reflect those of the sponsoring UN organizations.
The Transition to a Green Economy: Benefits, Challenges and Risks from a Sustainable Development Perspective

Summary of Background Papers
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The concept of a green economy has become a center of policy debates in recent years. During the recent global financial crisis, the United Nations General Assembly and several UN agencies underscored that the crisis represented an opportunity to promote green economy initiatives as part of the stimulus packages being put in place to support the recovery. Furthermore, when the GA decided to call a UN Conference on Sustainable Development (UNCSD), to be held in June 2012 in Rio de Janeiro, it chose as one of its major themes “a green economy in the context of sustainable development and poverty eradication”.

The concept carries the promise of a new economic growth paradigm that is friendly to the earth’s ecosystems and can also contribute to poverty alleviation. Viewed in this framework, it is compatible with the older concept of sustainable development that has been mainstreamed into the United Nations’ work for decades. But it also entails risks and challenges, particularly for developing countries, for whom economic development becomes more demanding and the fear arises that the new concept could be used to reinforce protectionist trends, enhance the conditionality associated with international financial cooperation, and unleash new forces that would reinforce international inequalities.

At the UNCSD’s first Preparatory Committee in May 2009, several delegations therefore requested that the United Nations Department of Economic and Social Affairs, the United Nations Environment Programme, the United Nations Conference on Trade and Development and other relevant organizations cooperate to prepare a study to be available for the second Preparatory Committee which would assess both the benefits and the challenges and risks associated with a transition to a green economy.

This document responds to this mandate. It contains three papers. The first one, by José Antonio Ocampo, looks at the macroeconomic policy implications of the transition to the green economy. The second, by Aaron Cosbey, focuses on the interlinked issues of trade, investment and technology. The third, by Martin Khor, considers the risks that this concept generates for developing countries and the domestic and international policies necessary to promote the green economy in these countries according to the principles of sustainable development. This summary presents the major policy conclusions that emanate from these contributions.

They are summarized around six major topics: (i) the advantages as well as the risks that the concept entails; (ii) the macroeconomic dimensions of green economic growth; (iii) the domestic strategies that developing countries need to put in place to meet the challenges of the transition to the green economy; (iv) the specific domestic and
international technological issues that this transition raises; (v) international trade issues; and (vi) financial support for developing countries. By the nature of the linkages among these issues, some are dealt with by two or even all three authors. For these reasons, it is better to summarize the papers by issue rather than in a sequential way. Also, although there is a high level of convergence of opinions among them, there are also a few disagreements.

THE CONCEPT OF A GREEN ECONOMY

The concept of the green economy has gained currency to a large extent because it provides a response to the multiple crises that the world has been facing in recent years – the climate, food and economic crises – with an alternative paradigm that offers the promise of growth while protecting the earth’s ecosystems and, in turn, contributing to poverty alleviation. In this sense, the transition to a green economy will entail moving away from the system that allowed, and at times generated, these crises to a system that proactively addresses and prevents them.

There is no unique definition of the green economy, but the term itself underscores the economic dimensions of sustainability or, in terms of the recent UNEP report on the Green Economy, it responds to the “growing recognition that achieving sustainability rests almost entirely on getting the economy right”. It also emphasizes the crucial point that economic growth and environmental stewardship can be complementary strategies, challenging the still common view that there are significant tradeoffs between these two objectives – in other words, that the synergies prevail over the tradeoffs.

Responding to concerns of many countries, the three papers underscore that the concept of green economy should be seen as consistent with the broader and older concept of sustainable development. The specificities of the broader concept are its holistic character, as it encompasses the three pillars of development – economic, social and environmental – and its particular focus on inter-generational equity. This is reflected in UNEP’s definition of a green economy as “one that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities”.

In his contribution, Khor raises several concerns and risks in the use of this concept from the perspective of developing countries. In particular, he underscores the need to identify and deal with the tradeoffs that may be involved at different stages of development and with different environment endowments and challenges. Furthermore, in linking the concepts of the green economy and sustainable development, he underscores the need to respect fully the principles agreed upon at the 1992 United Nations Conference on Environment and Development (UNCED) and, particularly, the principle of common but differentiated responsibilities. This requires, in his view, a three-pronged approach in which: the developed countries have to take the lead in changing their production and consumption patterns; developing countries maintain their development goals but do so while adopting sustainable practices; and developed countries commit to enable and
support the developing countries’ sustainable development through finance, technology transfer and appropriate reforms to the global economic and financial structures.

Khor also presents several risks that may be associated with the misuse of the concept of the green economy. The first risk is that it could be defined or operationalized in a one-dimensional manner, as purely “environmental”. The second risk is that of a “one size fits all” approach, in which all countries are treated in the same manner. There are also a series of risks related to the trade regime, to which we will return below: of using environment for trade protection; of gaining market access through the guise of environment; of developing countries’ facing production that is subsidized in the industrial world without being able to impose corrective measures; of limiting the policy space that developing countries have to promote their own green economy sectors; and of facing technical standards that their exporters cannot meet. And finally, he also underscores that the concept of the green economy should not be used to impose new conditionality on developing countries for aid, loans, and debt rescheduling or debt relief.

Therefore, as the concept of the green economy is mainstreamed into the work of the United Nations, the three authors agree that it should be seen in the context of the now familiar concept of sustainable development and placed integrally within this holistic framework of UNCED, the Rio Principles and Agenda 21. This means that, while underscoring the links between the economy and the environment, it should not lose sight of the equity dimensions, including the needs of the poorer members of society throughout the world, the specific needs of developing countries (and of different groups of developing countries) and, of course, of future generations.

THE MACROECONOMIC DIMENSIONS OF GREEN ECONOMIC GROWTH

Ocampo highlights four different macroeconomic issues that must be taken into account in the analysis of the green economy. The first one relates to issues of inter-temporal welfare: how the welfare of future generations is taken into account in current economic decisions, an issue that is relevant for savings and investment decisions today, but has broader implications, as the social discount rate chosen should be used in cost-benefit analysis at the microeconomic and sectoral levels. The second refers to the effects that the degradation of the environment has on aggregate supply, as well as the effects of environmental spending and protection policies on both aggregate supply and demand. The third is the fact that economic growth is always a process of structural change, a fact that is highlighted by the significant changes in the patterns of production and consumption that must be put in place in the transition to the green economy, which in this regard can be characterized as no less than a new technological or industrial revolution. The final one relates to how global initiatives in this area are going to be financed. The first two of these issues are dealt in this section, the third in the next one, while later sections contain the analysis of technology and finance.

The first of these issues relates to the discount rate that is used to value in current economic decisions the consumption (welfare) of future generations and the environmental damages that are being created today but which will fully affect economic
activity only in the future – the damages generated by climate change, the loss of biodiversity or the deterioration of water systems, to name a few. The importance of this issue can be best understood in terms of the debates surrounding the Stern Review on the economics of climate change. For example, environmental damage worth $100 half a century from now would be valued at $49.90 today using the Stern Review’s discount rate of 1.4% a year but only $5.43 or $6.88 using the alternative rates preferred by its critics (6 and 5.5%, respectively). Therefore, using a high discount rate significantly reduces the social profitability of taking mitigation actions today, favoring delayed action or even no action at all. For this reason, a high rate of discount reduces the attractiveness of savings and investing today to benefit the welfare of future generations.

This implies that social discount rates used for the analysis of optimal economic growth paths and associated savings and investment decisions are inherently linked to ethical debates on inter-generational equity. On these grounds, Ocampo justifies the use, by Stern and supporters of strong environmental action, of social discount rates that are below (in fact well below) market rates. Indeed, he argues that full inter-generational equity calls for the use of a discount rate equivalent to the expected rate of technical change (say on the order of 1.5 to 2%). This also implies that savings and investment today to reduce environmental damages must be increased to benefit future generations. A complementary argument is that strong action today insures future generations against the asymmetric and non-linear effects that certain developments can have on the ecosystem (i.e., the fact that the risk of losses associated with climate change or the extinction of species, among others, is higher than the probability of a more favorable outcome than those being projected), including the rising likelihood of extreme events (catastrophes). As indicated, this implies that microeconomic and sectoral cost-benefit analysis of relevant environmental investments should be evaluated using low social discount rates.

Macroeconomic considerations also indicate that green investments have a dual positive economic effect, on aggregate supply and demand. In the first case, the recent Green Economic report by UNEP shows that a strategy of reallocating investments towards the green economy may lead to slower potential economic growth for a few years, as renewable natural resources are replenished (an effect that can be strong in some sectors, such as fisheries), but will result in the long run in faster economic growth. Furthermore, investments in the green economy also reduce downside risks of adverse events associated with climate change, energy shocks, water scarcity and loss of ecosystem services. They will also result in the long term in increased employment, as green investments are generally more employment intensive, and have direct benefits in terms of poverty reduction. The latter is particularly true in the case of agriculture, where green technologies will tend to improve the agricultural productivity of rural smallholders.

A full consideration of the fact that green investments today will also increase aggregate demand gives an even more positive macroeconomic picture. Indeed, such investments can help increase economic activity and employment in the short-run, a much needed action for industrial economies that are still characterized by high levels of unemployment. This positive effect may even counteract whatever adverse aggregate
supply effects those investments can have in the short term. In turn, to the extent that investment is embodied in new equipment or leads to learning-by-doing, higher investment induces productivity growth, reinforcing long-term growth. Obviously, the composition of the demand stimulus must be carefully chosen to reinforce sustainable development: certain types of consumption and investment must be restricted to avoid excessive resource depletion and waste, whereas environmentally-friendly investment and consumption should expand.

DEVELOPING COUNTRIES’ GREEN DEVELOPMENT STRATEGIES

The third macroeconomic dimension highlighted by Ocampo comes from recognizing that economic growth is nothing else but a process of structural change: one in which some activities expand, based on new technological knowledge, while others contract. In this “structuralist” view, those changes are not just a byproduct of growth but their prime mover: development is nothing other than the capacity of an economy constantly to generate new dynamic activities. This view is essential because the transition to the green economy involves no less than a technological revolution, and will have deep impacts on production structures as well as on consumption patterns.

These structural transformations have two types of implications. Since new technologies are largely going to originate in the industrial countries, there are a series of international issues related to how these technologies are disseminated, what changes in trade patterns they will generate and what mechanisms will be put in place by the international community to guarantee that this process will benefit all countries. These issues are dealt with in later sections. Here we will concentrate on a second set of issues that relate to the domestic policy response by developing countries.

The major implication in this regard, which is underscored by the three authors, is that active development strategies must be put in place to drive the transformation towards new dynamic green activities. This strategy can be called as an investment-led strategy, or an active industrial and technology policy. In the latter case, it must be emphasized, however, that it involves not only manufacturing or industry but the whole range of economic activities (agricultural transformations, for example, are critical). For this reason, “production sector policies” could be a better term than industrial policies. Developmental states must be at the center of these strategies, but they must be designed to encourage strong private-sector responses. In Khor’s terms, the state has traditionally had a strong developmental role in developing countries: it now has to take on a sustainable development role.

In the view of the three authors, the core of this strategy should be a strong technology policy with a focus on adaptation and dissemination of green technologies (an issue that will be dealt with more extensively below) and the treatment of green economic activities as “infant industries” that require appropriate support (subsidies, preferably time-bound, access to credit and perhaps some level of protection). In Cosbey’s view, a wise industrial policy requires giving preference to new public and private investment that contribute to sustainable development: investment with good prospects for generating backward and
forward linkages in the economy, and which aligns with countries’ development priorities. In the end, he argues, governments looking to support domestic green sectors will inevitably pick losers as well as winners, but this should not be a blanket admonition against trying, as we have a rich history on which to draw in judging what works and what does not. These actions should be supported by public sector investments that develop the necessary infrastructure and provide access to basic energy and water and sanitation for the poor.

Needless to say, besides encouraging faster economic growth, the strategy must also incorporate sustainable development principles and practices. The set of related issues is extensively analyzed in Khor’s contribution. It includes regulation, pricing policies, taxes and subsidies to limit pollution and emissions and to control over-exploitation of natural resources and making prices better reflect environmental values, as well as mainstreaming environmental criteria in government procurement policies. In his view, this principle should also be incorporated in the pricing of public services, but in such a way as not to penalize the poor, especially when the products or services concerned are essentials. Thus, if water is generally underpriced, when revaluing its price a system of differential pricing should be put in place that ensures access for the poor. Public expenditure on restoring damaged ecosystems (such as forests, hillsides, water catchment areas and mangroves) is also important.

One of the crucial issues is the right of rural communities to a clean environment that enables them to have a sound basis for their livelihoods and their living conditions. One of the most serious potential effects of global warming will be the lower productivity of agriculture in developing countries. For the same reason, however, poor rural communities are also among the main beneficiaries of the green economy. Sustainable agricultural production methods have great mitigation and adaptation potential, particularly with regard to topsoil organic matter fixation, soil fertility and water-holding capacity, and increasing yields in areas with medium to low-input agriculture and in agro-forestry. In this context, paying farmers for carbon sequestration may be considered a “triple dividend” policy, as carbon dioxide is removed from the atmosphere (mitigation), higher organic matter levels and moisture retention in soils enhance their resilience (adaptation), and improved soil organic matter levels lead to better crop yields (production).

This issue is also related to “food security”, a term that has shifted back to the traditional concept of greater self-sufficiency and increased local food production. This may require, in Khor’s view, putting back many institutions that were dismantled in developing countries due to structural adjustment policies: those that assisted farmers in marketing, credit, subsidies, infrastructure, and protection. It should also include international trade reform that sufficiently reduces or removes harmful agricultural subsidies in the developed countries, while enabling developing countries to have special treatment and safeguard mechanisms to promote their small farmers’ livelihoods.
DOMESTIC AND INTERNATIONAL TECHNOLOGY ISSUES

Ocampo points out that the technological revolution surrounding the green economy is likely to differ from previous processes of this sort in at least three major ways. First of all, government policy is going to play a more central role than in past industrial revolutions. Secondly, given the level of integration of the world economy today and the fact that it is responding to veritable global challenges, the associated technological change is going to be essentially a global process, with specific international institutions playing a fundamental role in coordinating international cooperation. Thirdly, it will take place under the prevalence of intellectual property rights which are stronger and enjoy global protection under the TRIPS Agreement (Trade-Related Aspects of Intellectual Property Rights) of the World Trade Organization (WTO).

This raises essential issues as to who will benefit from technological change, in terms of being at the center of research and development efforts, and generating new economic activities and linkages with the rest of their economies. The available evidence indicates that most innovation in climate mitigating technology does take place in industrial countries and that, therefore, firms from those countries are the main holders of intellectual property rights, but a number of major developing country firms (from Brazil, China and India, in particular) have already gained some market share in new technologies. Given the center-periphery character of the process of technology generation, an important concern relates to whether this process will generate new forces for international inequality associated with the uneven technological capacities that already exist, both between industrial and developing countries but now also among developing countries.

A critical issue here, underscored by both Cosbey and Ocampo, is that, aside from the very large disparities in capacities to generate technology, technological absorption on the recipient side is always an active learning process. So, a central aspect of technology development and transfer is building local capacity so that developing countries can absorb, adapt, diffuse into the domestic economy and eventually design new technologies. Government support is thus essential to create national systems of innovation. This requires mechanisms to disseminate the technology, such as agricultural extension services for green agricultural technologies and similar mechanisms to spread knowledge about better building practices to household and construction firms, and about energy-saving technologies to small and medium-sized manufacturing firms, to mention a few. It also requires growing public, academic and private research and development (R&D) and engineering teams that adapt imported technology and eventually contribute to generate new technology.

In any case, given the fact that most developing countries will be technology followers, there is a need to develop global institutional arrangements that increase international cooperation and collaboration on research and development in all areas relevant for green growth, and accelerate the spread of those technologies to developing countries. According to all three papers, an important measure to promote sustainable development is to expand the space for technologies in the public domain, and to stimulate the transfer
to developing countries of publicly-funded technologies. Industrial countries should influence the flow of such technologies directly, or through requiring the private sector and public institutes that receive R&D funding from government to be more active in transferring technologies to developing countries. At the international level, there can also be public funding and joint planning of R&D programs, following for example the model of the Consultative Group on International Agricultural Research (CGIAR). Products and technologies emerging from such publicly funded programs should be placed in the public domain. A network of technology experts in various areas should be made available to advise developing countries, as well as designing a model R&D cooperation agreement, global demonstration programs, knowledge-sharing platforms, and a global database on freely available technologies and best practices in licensing.

The three authors also share a common view about the implications that this has for intellectual property rights (IPRs) and, particularly, the extent to which they clash with the public good character of knowledge. In Cosbey’s formulation, there has always been a moral argument for developed countries to engage in technology cooperation, to help developing countries access and assimilate the technologies they need for development, but the arguments become even more compelling in the context of technologies that are urgently needed to avoid environmental problems that have a global scope, such as climate change and biodiversity loss. Furthermore, as he argues, it is impossible to describe a single IPR regime that suits all countries at all stages of development.

In the interests of building a global green economy, IPR regimes should be tailored to countries’ development status. In Cosbey’s view, even at low levels of development IPRs play an important role. They may result in more imports of high-tech goods that, in themselves, represent technology transfer – goods that exporters would be reluctant to export to countries with weak protection. Similarly, they might result in increased incidence of firm-to-firm licensing of technologies, which in its own way results in increased domestic technological capacity.

However, a delicate balance must be struck between these advantages and the costs that IPRs have for technologically-dependent countries. For this reason, the three contributions call for reforms of the global intellectual property regime that would: include broader room for compulsory licensing (replicating this and other aspects of the WTO Doha 2001 agreement on IPRs and public health), strengthen patenting standards (particularly standards of breadth and novelty), limit the length of patent protection, and allow innovators to use existing patented knowledge to generate new innovations.

**INTERNATIONAL TRADE AND INVESTMENT RULES**

Changing trade patterns will be an essential part of the structural change surrounding the transition to the green economy. This restructuring brings potential economic benefits to developing countries by opening up new export opportunities. Indeed, as Cosbey points out, the growth in environmental goods and services (variously defined) has tended to exceed growth of merchandise exports since at least the mid-1990s as well as growth of GDP. However, there are also risks. Although, some developing countries – notably
China, but also India and Brazil – are participating dynamically in these markets, most environmental goods are produced in industrial countries. Also, as already pointed out, new trends also pose risks associated with using environment for protectionist purposes, including the undue use of subsidies and technical standards, and limiting the policy space that developing countries have to promote their own green economies.

As Cosbey argues, one obvious way trade policy might help in the greening of economies is by lowering tariff and non-tariff barriers to goods such as wind turbines and efficient light bulbs, and services such as environmental engineering. However, Khor claims that some developed countries may be attempting, through the categorization of certain goods and services as "environmental", to eliminate the tariffs of unrelated goods in WTO negotiations. In turn, he argues in favor of developing countries retaining some room for protection to develop their own environmental goods and services and support their diversification efforts.

Both Cosbey and Khor also cautioned against the use of environmental standards as a new form of protectionism. The clearest case is that of border carbon adjustments, which would operate in practice as additional import tariffs and should thus be rejected. In addition, Cosbey argues that regulations, standards and prohibitions based on production and processing methods (PPMs), which are not necessarily protectionist, may be easily specified in ways that provide undue advantage to domestic producers. They include carbon footprint labels, or labels that display the amount of greenhouse gases a product emits over its life cycle. More generally, environment-related product and process standards, regulatory regimes and restrictions are steadily ratcheting up in industrial economies, and private buyers in these countries are also developing a parallel set of related standards and codes.

The rise of these standards has major implications for developing country exporters. Governments should thus focus on enabling exporters to meet such standards, working with the private sector to communicate the content of the regulations and to help firms identify, acquire and assimilate the technologies needed to meet them. Governments can also help build accredited national or regional capacity to test and certify goods as compliant; this includes building laboratories, working with foreign accreditation bodies, supporting technical training, etc. They can also design domestic standards that are not too far from those required internationally, which would help build up private sector capacity to export successfully to demanding key markets and result in less local pollution, resource use and waste. At the international level, however, the plethora of product energy performance standards, testing procedures and labeling requirements used in different markets creates a barrier to export. Harmonizing these standards would thus be a huge boon, in particular for small and medium sized exporters.

The support given by industrial countries to green industries, including for R&D, though essential for the transition to the green economy, also raise some concerns. In Cosbey’s terms, there is nothing close to international agreement on the propriety and ideal character of such support, which is thus liberally granted by developed and developing countries alike. Furthermore, while there are rules in this area, there is a divergence of
opinion among the three authors about what WTO rules say, which reflects a broader policy debate. Although we could wait for clarity from the WTO dispute settlement process, this would not give policy makers certainty about what they can and cannot do. Furthermore, Cosbey argues that when rule-breaking is a widespread practice, as he thinks it is in this area, it seems unwise to use this mechanism, as any WTO dispute settlement decision risks looking anti-environment, anti-development, or both. Far better would be to hammer out some agreement (whether inside or outside of the WTO) that would identify best practice in the application of such support that is consistent with fair international trade.

Overall, there is broad agreement that technical standards and subsidies are essential for the transition to the green economy, but there is the possibility, as Khor argues that, through particular and narrow definitions of the trade-environment link, powerful nations could try to shift the economic burden of ecological adjustment to the weaker parties. A particular challenge is this regard is the interpretation of GATT Article XX, which allows countries to take measures contrary to the GATT rules on certain grounds, including measures “necessary to protect human, animal or plant life or health” and measures relating to the conservation of exhaustible natural resources.

Aside from these considerations, some countries will lose markets and/or suffer worsening terms of trade under a green economy. Any policies that help them successfully diversify away from known long-run losers would be essential for their success in a global green economy. A major concern here is obviously the commodity dependence of a large number of developing countries, particularly in Africa, the Middle East and Latin America. However, the best way to face the structural diversification efforts is to start by relying on capabilities and assets they already possess. Thus, Cosbey argues, for economies that rely heavily on extractives, the most feasible near-term course is to focus first on process improvements to existing activities, though clearly understood as a step in building up different classes of activities.

Finally, for Cosbey, the existing international investment “regime” – a web of over 2,700 bilateral investment treaties, investment provisions in a growing number of free trade agreements, and a host of firm/project-specific host government agreements – poses additional challenges. The first is that the plethora of agreements does not help states discriminate between desirable and undesirable forms of investment; in fact, some provisions in these agreements may actually act as obstacles to that sort of discrimination. Even more troublesome is the fact that, over the past decade, private sector actors have increasingly used dispute settlement provisions under these agreements to compel states into binding arbitration, arguing that new environmental regulations amount to an expropriation of their investments, or that they violate provisions on fair and equitable treatment by changing the rules of the game. This inappropriate interpretation of investment protection regulations must be unmistakably corrected. Furthermore, the Agreement on Trade-Related Investment Measures (TRIMS) under WTO, and most investment agreements, also prohibit the use of performance requirements. Cosbey argues that, where such measures can be shown to work in fostering new innovative global players, prohibiting them could constitute an obstacle to achieving a green economy. So,
as in the area of subsidies, it may be better to reach fresh international agreement as to what should be acceptable (and/or best) practice in this area in the pursuit of the green economy.

FINANCING DEVELOPING COUNTRIES’ GREEN ECONOMIES

There are diverging estimates of the resources needed for the transition to the green economy, which Ocampo and Khor summarize in their contributions. Based on these estimates, the recent Green Economy report by UNEP proposes a $1.3 trillion (2% of world GDP) target for green (public plus private) investments. Close to three-fifths of this sum would be invested in energy efficiency – particularly in buildings, industry and transport – and renewables; the remainder would be invested in tourism, water, agriculture, fisheries, waste management and a small amount in forestry. The resources allocated to energy, of slightly over 1% of GDP, are broadly consistent with estimates by Stern for a scenario for emissions of 450 ppm CO₂ by 2050. Over half of the estimated needs will come from developing countries, particularly in the area of energy, where the greatest expansion of demand is projected. Compared with these needs, UNFCCC calculations of financial needs for adaptation are of a much smaller order of magnitude: 0.04-0.15% of world GDP by 2030, but there are larger estimates.

In this context, the commitment reached in the recent UNFCCC conferences of the parties of mobilizing $100 billion a year by 2020 to address the needs of developing countries (which could include some private funds) is characterized by Ocampo as encouraging though at the low end of existing estimates, whereas Khor considers it far from adequate. In Ocampo’s view, these resources should be additional to those that should be designed to pay for environmental services, including in particular those provided by natural forests – a mechanism that is being discussed through the initiative to reduce emissions from deforestation and forest degradation (REDD).

Khor and Ocampo argue, along with several developing countries and many civil society groups, that carbon offsets that enable developed countries to pay for pollution rights and escape from having to reduce their own emissions should not be counted towards the contributions to the global climate fund. Khor adds, in this regard, that the system is open to fraudulent practices, generates the danger of creating new financial speculative instruments and raises concerns about the unethical and social implications of transforming nature into a commodity. He also argues in favor of the use of Special Drawing Rights (SDRs) for purposes of supporting developing countries for sustainable development activities which, in his view, is an attractive alternative in a period when government budgets in developed countries are coming under stress.

Developing countries have insisted in various fora on the principle of “adequate, new and additional” international financial resources for sustainable development, including environmental activities, to which the concept of predictability should be added. Since the monitoring and implementation of international financial obligations have been extremely weak in the past (in relation to Official Development Assistance, ODA, in particular), clear mechanisms in both areas should be designed. No unrelated and
unnecessary conditionalities should be attached to the use of these funds, nor should the environment serve as an excuse to add additional conditions for ODA aid, loans, debt rescheduling or debt relief.

According to Ocampo, the priority in the allocation among developing countries should obviously be given to the poorest countries, as well as those more likely to be affected by climate change (which may be the same). Given the large synergies between poverty alleviation and the green economy (most particularly in sustainable agriculture, water and sanitation), there may be “double” and even “triple dividends” in funds allocated for development purposes to the poorest countries (social and environmental, but also possibly economic). However, beyond these allocations to the poorest countries and those most likely to suffer major environmental disruptions, a strong case can also be made for transfer-like resources for middle-income countries to help them contribute to the provision of global public environmental goods. Similarly, the financing of access to basic services for the poor represents a limited amount of resources and should thus be included as part of a “no excuses” global financial scenario. In the allocation of funds across different economic agents in recipient countries, priority should be given to public sector infrastructure investments that are critical to the transition to the green economy. Households should also be a major target of financing, particularly to support energy-efficient housing and appliances, including subsidies that could be financed with taxes on energy use.

In macroeconomic terms, an effective international transfer of resources implies that recipient countries should be running current account deficits, but they may not be willing to do so for strict macroeconomic reasons (avoiding exchange rate overvaluation and preventing crises). This has major implications for the design of financing facilities to support developing countries’ efforts to build a green economy. The major implication is that priority should be given to financing programs that generate strong synergies with domestic efforts and avoid raising costs associated with the new strategy. Perhaps the most important are global financial efforts that facilitate the free or low cost access to technology: global financial technology funds that create knowledge that is made available as a public good, public sector purchase of relevant technology that is also made freely available, technical assistance in building technology capabilities, and human capital formation. A second area may be mechanisms that facilitate long-term domestic financing in developing countries, thus overcoming its short-term bias. One possible way would be to use the capitalization of multilateral development banks to expand considerably their bond issuance and lending in the domestic currencies of the developing countries, and to support activities that contribute to domestic financial development in these countries, particularly domestic development banks’ capacity to extend the maturities of available domestic financing.

Those developing countries that run current account deficits will, of course, be ready to absorb the additional financing. But in this case, the major implication is that financing of external deficits should not increase the risk of financial crises, which should be reflected in the provision of transfers rather than loans, or of loans with a grant component. This is particularly crucial for low-income countries. An additional area that becomes very
attractive is the design of global disaster relief and disaster insurance facilities to manage climate disasters. Such facilities could include insurance premiums but with a grant component that could vary according to the level of development of countries.