

NAMA Financing Options

Dr. Sebastian Wienges, Adviser, GIZ
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Expectations and reality of NAMAs

International finance

100 bn USD p.a. from 2020 pledged in Cancun, but

- Not only grants
- Not only public money
- Leverage and mobilization of private investments needed
 - Particularly in regard of the huge sustainable development co-benefits of NAMAs



Domestic finance

- Developing country governments will take the lead on NAMA development and implementation;
- Financing for NAMAs can come from domestic sources; international support will be provided according to needs and to ambition;
- Provision of support for developing countries will decrease over time according to decreasing needs and parallelly domestic finance will increase.



Main Findings

- needed financial resources are available
- NAMAs are perceived as nothing substantially new
- appropriate financing instruments for allocation to (sectoral/national) investment programmes exist



Overview of domestic policy instruments and economic incentives

Domestic policy instruments and economic incentives	Energy	Transport	Buildings	Waste	Industry	Forestry	Agriculture
• Carbon tax	P	P	P	P	P	(P)	(P)
• Energy emissions tax	P	(P)	(P)	(P)	(P)		
• Tax-free low-carbon development zones	P	P	P	P	P		
• Investment tax credits	P	P	P	P	P	P	P
• Production tax credits	P				P	(P)	P
• Environmental levies		P	P	P	P	P	
• Phase-out of fossil fuel subsidies	P	P	P		P		
• Production subsidies	P				P	(P)	P
• Feed-in tariffs	P			(P)		(P)	(P)
• Renewable energy access law	P						
• Project development grants	P	P	P	P	P	P	P
• Micro finance facility for climate-resilient practices	P	P	P	P		P	P
• Restructuring aid for industries					P		
• Smart metres/demand-side management	P						
• Public procurement	P	P	P	P	P	P	P
• Green power purchasing	P						
• Publicly funded venture capital	P	P	P	P	P	P	P
• Venture loan guarantees	P	P	P	P	P	P	P
• Mezzanine/subordinated debt funds	P	P	P	P	P	P	P
• 'First loss' public equity position in funds	P	P	P	P	P	P	P
• Public-private technology funds	P	P	P	P	P		
• Green bonds	P	P	P	P	P	P	P
• Loan softening	P	P	P	P	P	P	P
• Senior debt funds	P	P	P	P	P	P	P
• Public infrastructure funds	P	P	(P)	(P)	(P)		
• Technology insurance packages	P	P	P	P	P		
• Green accounting	P	P	P	P	P	P	P
• (Mandatory) labelling and standards	P	P	P	P	P	P	P
• Renewable fuel standards	P	P	P				
• Ecological footprint assessment	P	P	P	P	P	P	P
• Insurance programmes	P	P	P	P	P	P	P
• Interconnection policy	P						
• Line extension policy	P						
• Protection of innovation (patents)	P	P	P	P	P		
• Best available technology requirements	P	P	P	P	P		
• Building codes			P				
• Tolls for transport infrastructure		P					
• Parking fees		P					
• Public transport fares		P					
• Waste disposal fees				P			
• Renewable transport fuel obligations		P					
• Public benefit charges	P	P				P	P
• Land zoning to protect sinks and public goods						P	P

See:

<http://www.mitigationpartnership.net/giz-2013-climate-finance-cascade-nama-financing-mechanism-nutshell>



Different Actors Have Different Appetites

- Risk-return ratios must match different investors

Risk	Return	Volume	Instrument	Investor
low	low	large	Bond	institutional
low/ medium	low/medium	medium	Loan	banks, Governments
medium	medium	large/medium	Fund	banks, financial intermediaries
high	medium/high	medium	Equity	project developers
medium	medium	large/medium	Guarantee	Governments
low	low	small	PPP	companies
low/ medium	low/ medium	small	Contracting	companies



- Created assets must match liabilities of individual investors

Scope	Assets	Refinancing	Investors	Beneficiaries
Scope 0	Bonds	of development banks and governments	Grant donors Guarantee providers Institutional investors	Governments
Scope 1	Funds	of local banks	Grant donors (governments) Development banks	Developing country governments Local banks
Scope 2	Concessional loans	of loans	Grant donor Local banks	Local companies
Scope 3	Consumer loans Contracting Equity Export/ FDI/ Financial instrument guarantees PPPs Carbon offsets	of equity investments	Subsidy providers Guarantee providers Local companies (Project developers)	Joint ventures Technology providers End customers
Scope 4	Mobilised market instruments (PoAs, Micro Credits)	of consumption	Mobilized investors	Low carbon development projects



Accessibility of climate finance

- International climate financing instruments along the whole cascade exist...
- but not equally accessible in all regions, countries,
- and not all instruments are equally accessible:
 - NAMA bonds are only starting to be developed,
 - Few infrastructure funds offer support,
 - Public equity, publicly-backed guarantees are hardly provided by any international source,
 - Many carbon market-based financing instruments exist
- Green Climate Fund may be a few years away from disbursing funds
- Support for early NAMA implementation likely to come from bilateral funding sources + multilateral dev. banks



Leveraging Private-Sector Finance for NAMAs

- Important to understand local barriers to private sector investment
- in order to lower risks to investors and assure appropriate returns to attract private capital, NAMA resources could be used to (via financial intermediaries) e.g.:
 - lower development costs of investment projects under a NAMA through technical assistance;
 - lower the cost of capital through equity and debt co-financing instruments;
 - cover the incremental costs or financing the riskier aspects of investments;
 - lowering risks through credit enhancement;
 - insurance or other forms of guarantee.
- Such mechanisms can further bring down market barriers, bridge financial gaps and share risks with the private sector



**Thank you very much for your time and
attention!**

**If you have questions
or look for partners,
please contact:**

**Dr. Sebastian Wienges,
Adviser, CC Climate
sebastian.wienges@giz.de**

Financial vehicle	Level of investment	Example	Financial volume	Potential leverage
Equity	a) public infrastructure b) private companies	a) Bus Rapid Transit system b) Privately owned public transport companies	high	1:8 to 1:10
Guarantees	private activities	Private construction and maintenance of public transport facilities	high/ medium	up to 1:20
Debt a) loans b) micro credits	a) private companies b) micro entrepreneurs	a) credit lines for enhanced fuels and technology b) IT services to reduce transport of goods and passengers	a) medium b) low	1:8 to 1:10
Carbon market a) projects b) PoAs	a) privately owned projects b) small-scale activities	a) installing a renewable energy facilities b) energy efficiency measures in buildings	low	up to 1:5



Which barriers for NAMAs?

- Financial barriers
 - High upfront costs, Small project sizes
 - Split incentives (e.g. of owners and users)
 - Misallocation of resources for investments (e.g. subsidies for conventional technologies)
- Institutional barriers
 - Limited access to capital
 - Monopolies/ Limited access to markets
- Economic barriers
 - External effects
- Technical barriers
 - High transaction costs
- Information barriers
 - Limited awareness of options
 - Lack of knowledge/ access to knowledge
- Capacity barriers
 - Lack of skilled labour
 - High transaction costs

Which risks?

- Country risk
- Policy risk
- Currency risk
- Deal flow problems
- Difficulty evaluating multiple, overlapping risks