Measurement, Reporting and Verification (MRV) in the Evolving Carbon Markets

Carbon Finance Unit
Climate Policy and Finance Department, The World Bank

Africa Carbon Forum
Abidjan, July 04, 2013
More and more countries are planning to develop MRV systems

MRV is not just about quantifying emission reductions
Level of needs and complexity varies

Level of needs and complexity depends on ambition, target sector, policy interventions, their interactions and capacity of existing systems; but may also requirements of funding entity(!)
There are many challenges that countries need to overcome

- **Measuring emissions vs measuring mitigation actions**
  - Existing systems help measuring emissions
  - More efforts needed for measuring mitigation actions

- **Institutional capacity**
  - Identifying roles and responsibilities
  - Coordination
  - Data checking

- **Data collection (mandatory vs voluntary) and its availability**
  - Incentives for participants to maintain the data
  - Cost of deploying systems

- **Creating technical and infrastructure needs**
  - Integration and harmonizing data needs and reporting
Build from the existing systems

- National level inventories is a good starting point
  - Most countries use for their national communication with UNFCC
  - EPA greenhouse gap reporting program
- CDM and other instruments give confidence to proceed
  - Methodologies (baseline and monitoring)
  - Tools
  - RBF
- Build on facility level reporting requirements, if already exist
  - Implementing EE standards (like India PAT scheme)
- Others like REDD+

*MRV systems can either be ‘integrated’ and support each other or separate and independent*
Learn lessons from existing systems elsewhere

- **Have a clear vision on requirements**
  - Helps to deal with number of installations and data points
  - Greater efficiency

- **Take future requirements into consideration**
  - Different reporting regimes and their requirements
  - Ability to modify/update with least cost

- **Plan and budget for continuous improvement**
  - Improve system functionality

- **Invest in capacity building**
  - Engage and equip all stakeholders
Conclusion

- Start with keeping future requirements in mind (domestic MRV vs international MRV)
- Weigh between integrated vs isolated systems development
- Lessons learned from existing systems can help
- Capacity building is key
- Ensure systems that are simple but at the same time robust enough