United Nations Framework Convention on Climate Change



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Outline

Background: Compendium on GHG Baselines and Monitoring

Volume: Residential, commercial and public buildings







- Resource map of methods, methodologies & tools
- Establish baselines, estimate & monitor emission reductions
- Wide range of mitigation actions
 - Economy-wide emission reduction targets
 - Sectoral-level
 - Sub-sectoral
 - Project- or facility-level
- All IPCC sectors

COMPENDIUM ON GREENHOUSE GAS BASELINES AND MONITORING

NATIONAL-LEVEL MITIGATION ACTIONS





VOLUMES:

- 1. General guidance on baseline setting and monitoring;
- 2. National level mitigation actions;
- 3. Energy industries;
- 4. Manufacturing industries and construction;
- 5. Buildings (commercial, institutional and residential);
- 6. Transport;
- 7. Agriculture, forestry and other land use;
- 8. Waste management;
- 9. Cross-sectoral mitigation actions;
- 10. Synopsis and linkages between aggregation levels.







Activity data

 Static/linear extrapolation of historic AD trends vs. AD on sector/installation level, detailed AD models

Emission factors, intensities

- Global/regional default EFs,
- Country-specific EFs
- Best available EF data from sector/installation level

Inclusion of policies & actions

- Few/most/all significant policies
- Assumptions about policies & drivers
 - Static/linear extrapolations of historic trends
 - Dynamic & estimated based on detailed modeling
- Coverage of emission sources/gases
 - Main vs. all
- > Level of effort: Low, intermediate, high $_6$







- 1. National level mitigation actions;
- 2. Manufacturing industries and construction;
- 3. Passenger and freight transport;
- 4. Agriculture, forestry and other land use;
- 5. Residential, commercial and public buildings;











WORLD Resources Institute





50 GHG baseline and monitoring methodologies:

- Residential
- Commercial,
- Public buildings

Main sources of methodologies

- Protocols, guidelines, models international scrutiny
- Clean Development Mechanism (CDM)
- Gold Standard (GS)
- Verified Carbon Standard (VCS)





- On-site renewable energy 11 methodologies
- Fuel switching 3 methodologies
- Whole building 6 methodologies
- GHG avoidance and destruction 2 methodologies



GHG avoidance &

destruction

Demand side energy efficiency



On-site renewable energy



Fuel switch





Whole building



GHG avoidance and destruction

Category	Sector	Methodology
GHG avoidance & destruction	Residential buildings Commercial buildings	CDM-AMS-III.X Energy Efficiency and HFC- 134a Recovery in Residential Refrigerators CDM-AMS-III.AB. Avoidance of HFC emissions in Standalone Commercial Refrigeration Cabinets

- A lack of internationally agreed standards and guidance – one of major problems for preparation of NAMAs
- Donors & financiers:
 - Robust MRV as a condition to access finance for implementation
- Compendium:
 - systematized overview of available methods &
 - guidance on selecting the most appropriate one ~ objective, data & expertise availability



• Thank you for your attention!

- Any questions?
- Contact us: VNovikova@unfccc.int



MAND-SIDE ENERGY EFFICIENCY



I-SITE RENEWABLE ENERGY EXAMPLE)

