

REPÚBLICA DE PANAMÁ — GOBIERNO NACIONAL —



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on the basis of a decision

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Presentation: Data needs and how to gather or estimate missing data

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Relevance of data

Regardless of the approach adopted, the need to gather good quality data is paramount to perform transparent and valuable mitigation assessments. presents a typical cycle of data management to perform mitigation assessments.

Cycle of data management to perform mitigation assessments



Adapted from WRI. Policy and Action Standard (2014).

Source: adapted from WRI. Policy and Action Standard (2014).

Sources of data

Bottom-up data is measured, monitored, or collected at the source, facility, and entity or project level.

energy used at a facility (by fuel type) and the output of the facilities production.

Top-down data can be macro-level statistics collected at the jurisdiction or sector level. national energy use, population data, GDP, sectoral production and fuel

prices.

Table 4: Origin and characterization of data used for mitigation assessments		
Type of data	Description	Examples
Measured data	refers to direct	smokestack measurement
	measurement	
Modelled data	refers to data derived from	models representing
	quantitative models	emissions processes from
		landfills or livestock
Calculated data	refers more specifically to	multiplying natural gas
	data calculated by	consumption data by a
	multiplying activity data by	natural gas emission factor
	an emission factor	
Estimated data	refers to proxy data or other	behavior of people in a
	data sources used in the	region to estimate waste
	absence of more accurate	emissions
	or representative data	
	sources	
Source: adapted from WRI. Policy and Action Standard (2014).		

High quality datasets

Quality assured: Reliable, peer-reviewed datasets

- Credible: from recognized, credible and verifiable sources
- Comprehensive: high number of locations or contexts
- Relevant and Complete: also addresses normal fluctuations in data (seasonal, annual variations)
- **Representative:**
 - Technological representativeness
 - Time period representativeness
 - Geographical representativeness

The quality of the data used to prepare these projections is critical - poor data yields poor results.

As countries work on making their transparency systems, and by extension mitigation assessments, more effective, investing in the Quality Assurance and Quality Control of the data is gaining relevance.

Conditions leading to problems of data:

- Inconsistency in data: maintain sources, methodologies, datasets
- Incomplete data: all GHG sources and sinks are not covered, limited geographical coverage
- Changes in activity data
- Changes in emission rates
- Changes and gaps in data availability

Dealing with insufficient quality data:

If data of sufficient quality is not available, or no data is available at all, some inferences about the possible impact of the actions, policies and measures can still be reported by employing proxy indicators / data.

The use of proxy data helps fill data gaps in the preparation of baselines or mitigation assessments, by including data from a similar activity/geographic area/country as a stand-in for the activity being assessed.

However, technical experts should identify which data could be employed as a proxy and how it should be reported

Overcoming quality data problems:

Techniques to fill data gaps: Splicing techniques

Presented in the 2006 IPCC Guidelines for National GHG Inventories:

- Overlap
- Surrogate
- Interpolation
- Extrapolation

Selecting a technique requires an evaluation of the specific circumstances and a determination of the best option for the particular case

Splicing technique: Overlap

- New method is introduced
- Consistency between 2 methods
- Data not available for the early years for the new method



Splicing technique: Surrogate

- The surrogate method links an information to underlying activity or other indicative data
- Changes in these data are used to simulate the trend in the needed information



Splicing technique: Interpolation

 Information is not available for some years in the middle of the series



Splicing technique: Extrapolation

- When data for the base year or the most recent year are not available
- assuming trend in emissions/removals remains constant over the period of extrapolation
- Analyse the character of trend e.g.
 linear or more complex





Alianza para la Transparencia en el Acuerdo de París Grupo Regional de América Latina y el Caribe





Thank you for your attention!

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