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Emission scenarios vs baselines

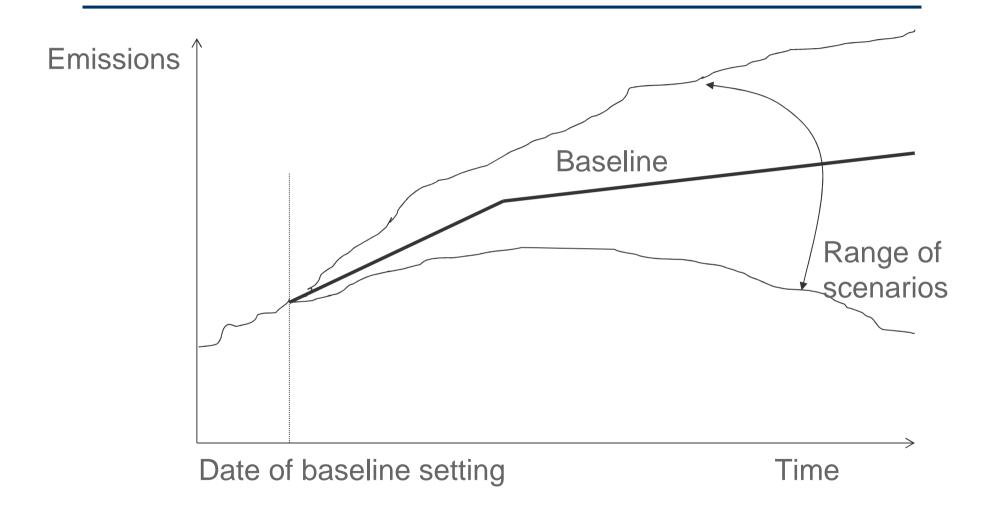
Emission scenarios

- Depict range of possible future developments
- Can take into account an almost unlimited range of assumptions
- Can but need not include effects of past and future mitigation policies

Baselines

- Depict the "business-as-usual " scenario
 - Should they include the effects of future mitigation policies?
 - Should they include the effects of mitigation policies introduced in the past?
- Are starting point for calculation of emission reduction under a LEDS/NAMA/mitigation policy
- Are developed using a politically agreed methodology
- Are updated in politically agreed intervals

Emission scenarios vs baselines





Key parameters of emission scenarios influencing baselines

- GDP growth
- Population growth
- Autonomous energy efficiency improvement
- Share of carbon-intensive sectors in the economy
- Cost of mitigation technologies
- Fuel prices
- Price elasticities
- Transport demand
- ...



Experiences with baseline setting for CDM

- Strong role of experts in deciding on baseline methodologies
- Initial political decisions trigger development of "families" of baseline methodologies
 - Electricity grid emission factor: build vs operating margin
 - Waste-related methane: 1st order decay model from IPCC
- Some, but not all methodologies try to capture non-additional emissions mitigation under the baseline
- Mitigation policies introduced in the past were not taken into account, in the future after 7 years
- Political move to simplify methodologies through introduction of benchmarks and default utilization factors
- Differentiation according to host country types
- Update every 7 years for existing activities, otherwise rolling update

Questions for group discussion I

- What criteria should be used to define values for parameters used for determination of emissions scenarios in order to derive baselines?
 - Conservativeness
 - Internal consistency
 - Appropriateness / Adequacy
 - Accuracy, measurability and reliability of underlying data
 - Limited level of uncertainties

- ...



Questions for group discussion II

- Should baselines be based on a "no additional policy" case?
- Should baselines take into account policies introduced in the past?
- Should baselines try to capture the non-additional mitigation potential?
- Should baseline methodologies be agreed on the UNFCCC level? If yes, should there be tiers according to the level of development of a country?
- How often baselines should be updated?

