

### **Energy Evaluation 2022**

## **EnDev Results factors**

A methodology for considering additionality and sustainability aspects in results monitoring of energy access projects



# EnDev: A flagship energy acces programme

- Started as a Dutch-German collaboration in 2005 focused on MDG-energy target achievement
- Is a multi-donor program today (DGIS, BMZ, NORAD, SDC) with RVO and GIZ as comanaging organizations, and approximately 10 different organizations implementing EnDev in 20 developing countries
- In addition, EnDev has 'associated programmes'
- EnDev plays a large role in global initiatives: ESMAP, Clean Cooking Alliance, etc.







### **EnDev Results factors**

 Since the beginning in 2005, EnDev has provided robust quantitative outcome data focusing on "real" access to energy: Observed results are modified using factors



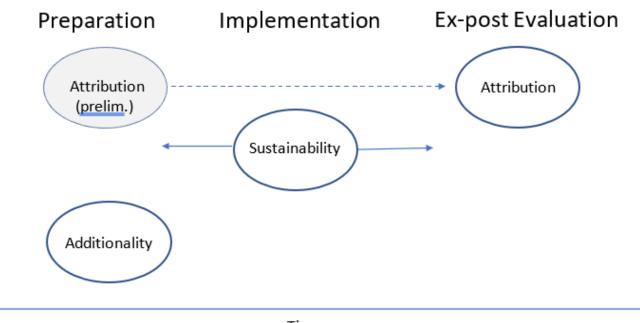
 New "results factors" is a continuation of a tradition. The aim of the revision of the factors is to have a more simple and standardised approach



# Additionality, sustainability, and attribution in general

- Result factors reflect hard questions:
  - Is our intervention sustainable?
  - Is it additional?
  - Are we making a change?
- This is not unique to EnDev, but few donors take these aspects into account in the quantitative results as EnDev does.

Figure: Illustration of when these concept are considered in standard international practice





### Ice plate metaphor for the new results factors



- Sustainability = How many has access five years after first use? Can be observed/measured
- Additionality = How many would not have gained access anyway? Is counterfactual, can only be estimated
- Attribution = How big a share of the result is EnDev's and how much is due to another donor? Pro-rata share

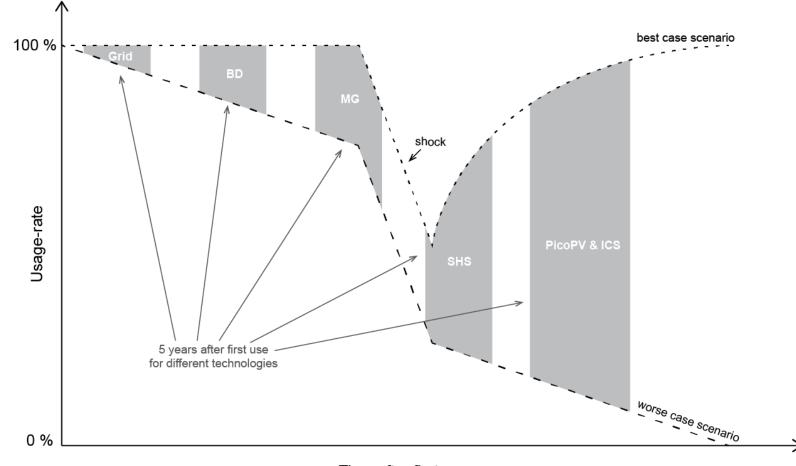


### Main attributes

- 1. Each factor represents a combination of several aspects
- 2. Operational definition: "Five years after first use"
- 3. MTF-tiers play an important role: New and improved access counts
- 4. Two approaches: Default (fast) or Project specific (accurate)
- 5. Limited detail: One decimal only / 10%-steps only



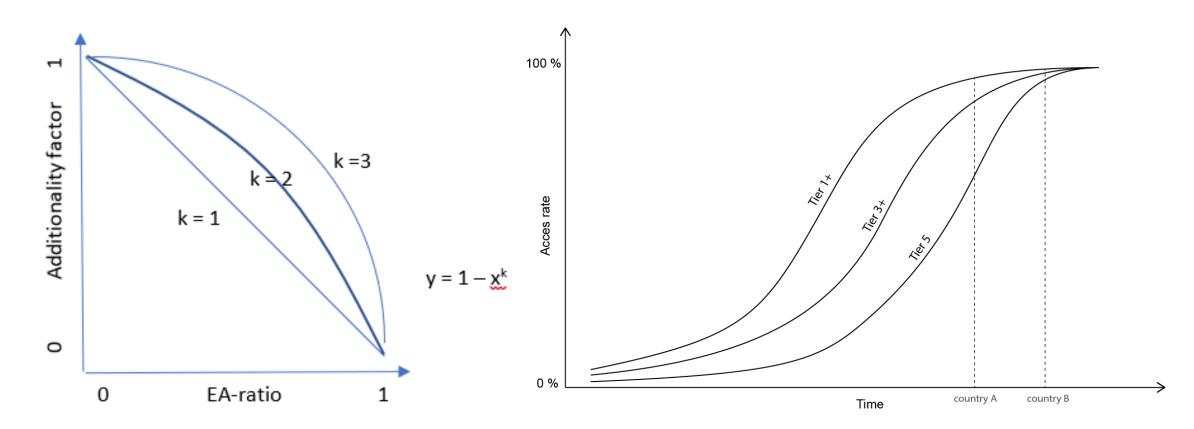
## Sustainability



Time after first use



# Additionality





# Attribution

- Has to do with partnerships: No programme is an island
- Only partnerships with other donors are considered in this factor -> national partnerships are taken for given
- Definition: The share of end users that has gained access to energy entirely due to EnDev's support after the contributions of other development partners have been deducted
- Pro-rata share that can be calculated as either:
  - EnDev financial contribution / total financial contribution to project or assistance given to market actors
  - Number of end users reached without partnership with development partner / Number of end users reached in project



## Attribution and indirect results

- As a programme that works in partnerships, it is sometimes difficult to separate EnDev results from others'
- Examples:
  - i. Support to market partners (companies) lead to improved results not only concerning the technologies promoted by Endev, but also to other solutions
  - ii. Support to market partners lead to results outside the intervention zone
  - iii. Results are achieved some years after support is given: How to handle this question when projects are handed over to other donor programmes?
- There are special attribution factors for these indirect results.
- Indirect attribution factors are based three types of boundaries:
  - Time, Geography, technology solution+quality
- Conditions
  - The market partner also creates direct results
  - Justifying narrative/explanation
  - Indirect attribution factors go both ways



# Concrete examples of indirect attribution factors

- RBF program for biodigesters:
  - Companies and models accredited
  - Business- and marketing training
  - Results based support to sales of approved models
- Situation
  - Company sells more BDs, but not many of the EnDev models because demand changes
- Indirect result
  - ✓ Same market partner (the company)
  - ✓ Justifying narrative
  - ÷ Outside technological boundary (partially)
  - ✓ Inside geography and time.
  - Calculation of achieved results: Direct: EnDev-BDs x SusF x AddF x 100% + Indirect: Non-EnDev-BDs x new SusF? x new AddF? x EnDev-BDs/(All BDs)

- Handover of stove-program:
  - EnDev has promoted stoves (ICS) in 10 years
  - New donor comes in and EnDev hands over the stove component of their program
- Situation
  - New donor gets a flying start
  - EnDev performance numbers take a dive for a few years
- Indirect result
  - ✓ Same market partner (stove producers and resellers)
  - ✓ Justifying narrative
  - ÷ Outside time boundary;
  - ✓ Inside technology and geography
  - Calculation of achieved results: Indirect: New sales x new SF x new AF x [Y1: 50%; Y2: 30%; Y3: 10%; Y4+: 0%]



### Questions to the audience

- 1. Do you agree to this way of altering concrete results based on theory/forecasts ?
- 2. Does quantification of additionality, sustainability, and attribution create the right incentives for energy access programmes?
- 3. Are there other cooperations or programmes that actively reduce their observed results using 'factors' similar to EnDev's system?





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