



ACP - EU Energy Facility
Monitoring

Key Performance Indicators for the Energy Facility



Mapping the Coordinates with GPS, “Ligne électrique de Muhura”, Rwanda

Anise Sacranie
Danish Energy Management



Topics

- Why indicators?
- What kind of indicators?
- Energy Facility Indicator Structure
- Use of Indicator Data



Selection of indicators for energy projects

- Why? 2 reasons for having indicators:
 - Measure how the different projects contribute to the general objectives of the Energy Facility
 - Measure if the project is achieving its objectives and reaching expected results
- What? General objectives of the Energy Facility
 - poverty reduction,
 - improvement of livelihood,
 - access to energy services,
 - improved governance and management of energy



What are good indicators?

- Depends on the context and what you are measuring
 - How can we measure "soft" issues such as livelihood/welfare, access to energy, governance ?
 - Where do you get information from – outside sources / baseline study?
 - Set **baseline value** of the indicator – how is it measured?
 - Set **feasible targets** for each indicator
 - Targets at project end
 - Yearly targets , which may not be a linear function of the end target, but takes into account start-up time, are useful.



SMART Indicators

- SMART indicators
 - Specific
 - Measurable
 - Available at an acceptable cost
 - Relevant with regard to the objective concerned
 - Time bound

**Useful indicators are the ones
that are used**



An Example of Project Results

- Background

A project which aims to improve the quality of life of rural poor by providing access to solar-PV lighting for purposes such as studying, increasing income generation opportunities and improving quality of health care.

- Project Specific Objective

To provide off-grid solar lighting to 2.5 million people in Sub-Saharan Africa

- Proposed Results Indicators

- 20 technicians per country trained in internationally recognised standards for off-grid solar lighting products within pilot countries within project period
- Beneficiary household spending on fuel decreases by 50% within project area within project period (**assumes baseline**)
- 10 partnerships per country established between manufacturers and distributors of off-grid lighting products through the programme per year



Parameters for Setting Goals

- Define the **quantity**: 20 technicians
- Define the **target group**: ...beneficiary households...
- Define the **quality**: ... under the programme...
- Define the **place**: ... in the project area...
- Define the **timing**: ... within the project period ...



Difficulties when Defining Indicators

- The project overall strategy and objectives is not clearly defined so it is hard to know what to measure
- High level indicators to which the impact of the activity is not traceable – how to attribute the impact to the project?
- Indicator of activity versus indicator of result, e.g.
 - Number of training workshops held (activity)
 - Skills gained by participants (result)
- No baseline or target – where are we leaving from and going to? How do we know when we have reached there?
- Too many and too costly

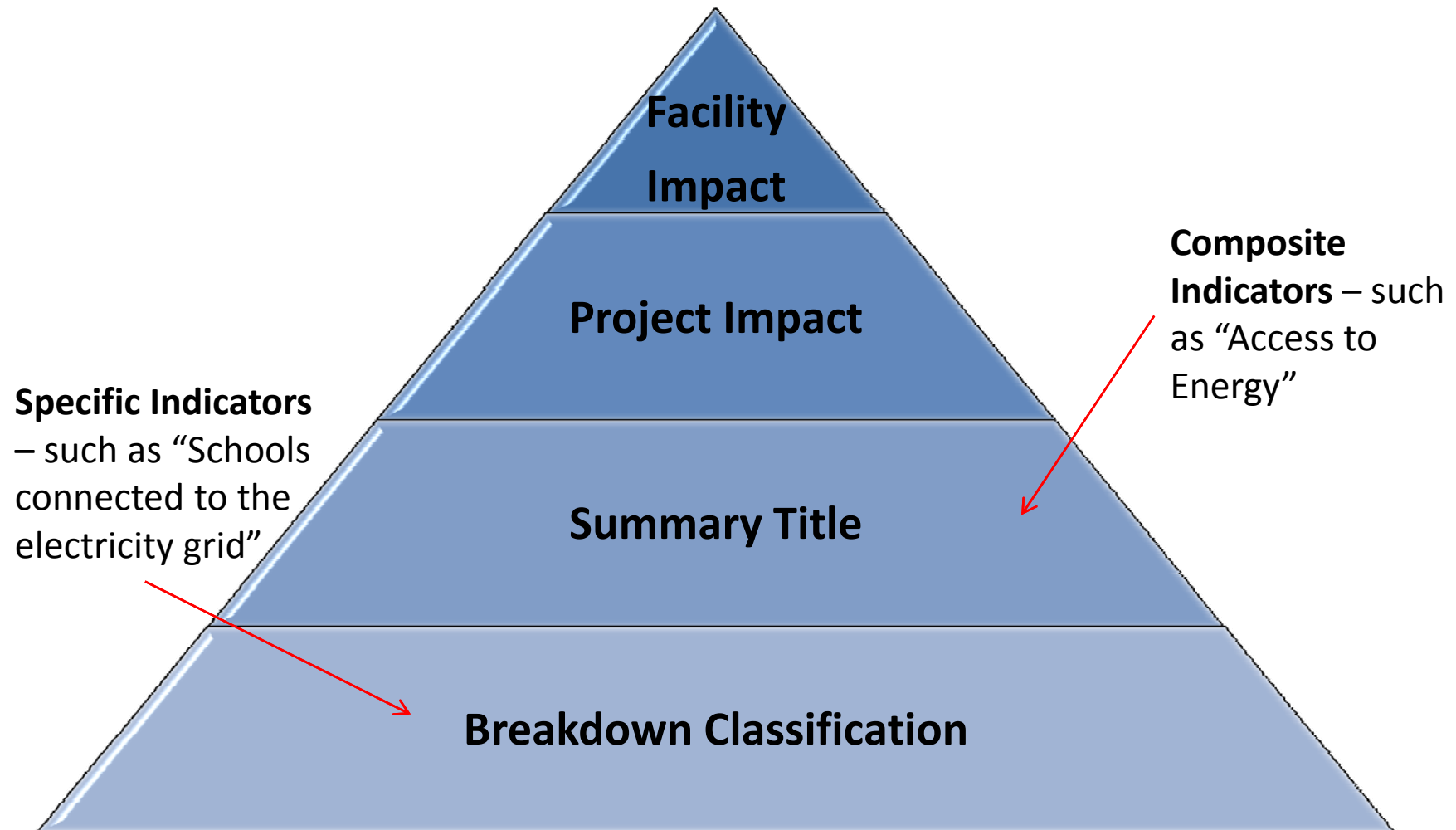


Examples of imprecise indicators

Objective	Indicator	Problem
Improve access to modern and affordable energy services and sources for poor rural and peri-urban households while ensuring environmental sustainability	# of HHs using modern and affordable energy saving stoves and energy saving cooking methods/techniques	When is the objective achieved?? What is the target and what is the baseline? When is it "modern" and "affordable"?
	Level of appreciation of project initiatives by local authorities in order to improve the socio-economic conditions of the population	How can this be measured as it is not defined clearly?
	% of people who have access to energy services, before and after the action.	No target has been set Positive that it is foreseen to compare Is it clear what "energy services" are?



Energy Facility - Structure of Key Impact Indicators





Facility Impact

Facility Impact

**Socio-economic
impact**

Contributing to
poverty reduction,
sustainable
development and
achieving the MDGs

Poverty Reduction
Business Creation
Employment

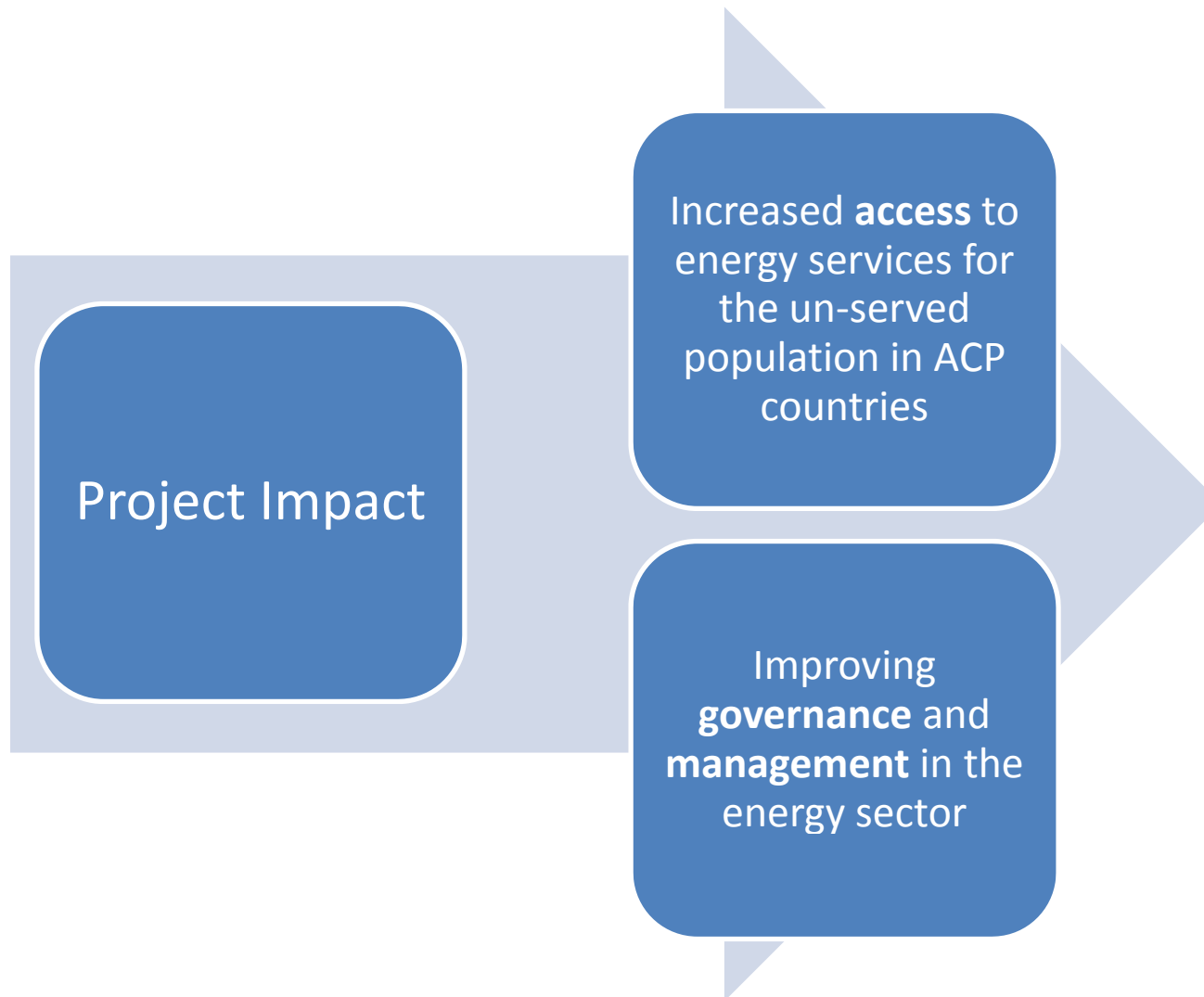


Facility Impact

Summary Title	Operational Description	Breakdown Classification
Poverty Reduction	Decrease in the proportion of population below \$1 purchasing power parity (PPP) per day	a: Significant impact can be verified b: Minor impact can be verified c: No verifiable effect d: The proportion of population below \$1 PPP per day has increased
Business creation	Creation of new enterprises in the target areas as a verifiable result of project outputs	a: Significant impact can be verified b: Minor impact can be verified c: No verifiable effect d: The number of enterprises in the area has decreased
Employment	Jobs created in the project area as a verifiable result of the project outputs	a: Significant impact can be verified b: Minor impact can be verified c: No verifiable effect d: The employment in the area has decreased



Project Impact





Energy Facility Key Performance Areas Project Level

Key Performance Area	Composite Indicator (Summary Title)
Increased access to energy services for the un-served population in ACP countries	Energy infrastructure in rural and peri-urban areas (coverage)
	Access to energy services for public facilities and communities targeted by the project
	Access to energy services in households in the project area
Improving governance and management in the energy sector	Pro-poor enabling environment for energy through plans and strategies
	Stakeholder networks
	Capacity building at institutional and key stakeholder level



Impact on Access to Energy for the Un-Served Population

Area of impact	Operational Description	Objectively Verifiable Indicator of achievement
Energy infrastructure in rural and peri-urban areas (coverage)	Availability and access to energy in rural and peri-urban areas	Beneficiaries access to grid electricity
		Beneficiaries access to non-grid electricity
		Installed capacity by the project



Area of impact	Operational Description	Objectively Verifiable Indicator of achievement
<p>Access to energy services for public facilities and communities targeted by the project</p>	<p>Health and educational institutions, rural cooperatives, small businesses, and other community centres in the project area increasingly supplied with adequate sources of electricity and mechanical power</p>	<p>Hospitals, clinics, health posts connected to the electricity grid in the project area</p>
		<p>Hospitals and clinics/health posts with adequate annual electricity consumption levels.</p>
		<p>Hospitals: 50000 kWh</p>
		<p>Clinics / health posts: 2000 to 8000 kWh</p>
		<p>Schools connected to the electricity grid in the project area</p>
		<p>Schools with adequate annual electricity consumption levels: 2000 kWh</p>
		<p>Electric or fuel-operated water pumps in the community centres</p>
<p>Motorized mills in rural cooperatives, small businesses and other community centres</p>		



Area of impact	Operational Description	Objectively Verifiable Indicator of achievement
<p>Access to energy services in households in the project area</p>	<p>Household cooking and lighting needs increasingly met by sustainable and affordable energy services</p>	<p>Improved cooking facilities (e.g. improved stoves sold)</p> <p>Households with access to reading light in one room 4 hours per day (75kWh)</p> <p>Total electricity consumption in households (Generation capacity / number of beneficiaries)</p>



Impact on Governance

Area of impact	Operational Description	Objectively Verifiable Indicator of achievement
Pro-poor enabling environment for energy through plans and strategies	Plans and strategies concerning the access to energy services for the poor (in particular those aimed at promoting renewable energy and energy efficiency)	Number of plans and strategies presented and agreed.
Stakeholder networks	Stakeholder networks built and functioning	Number of stakeholder networks active one year after initiation
Capacity building at institutional and key stakeholder level	Operational capacity of stakeholders increased and effective through training of staff	Number of key stakeholders trained by the project in energy areas.
		Number of officials trained by the project in energy areas



Why standardise EF indicators across such different projects?





Use of Data by the Energy Facility

- **EF Indicators:** What is the overall trend towards the achievement of the objectives of the Energy Facility
 - Facility-Project indicators should therefore be comparable
- **Project Indicators:** How is each individual project performing
 - Analysis of reports both in terms of PCM and particularities related to energy projects
 - Follow up on evolution to
 - Prevent bottlenecks
 - Assure quality in implementation
- **Indicators needed – and information for their verification**
 - Projects should collect data and report on the indicators
 - The indicator must be collected at low cost during the implementation of the project.
 - Either gathered through specific surveys (to be included as activities in the project) or any other source of information (to be indicated as sources of verification in the Logical Framework)



Tableau de bord



TA to the EC's Delegations for the Monitoring of the Energy Facility's Projects ACP EU Energy Facility Monitoring / Tableau de Bord

Summary of 74 EF Project Progress - Per Component and Total

Impact on livelihood

Number of projects noticing:

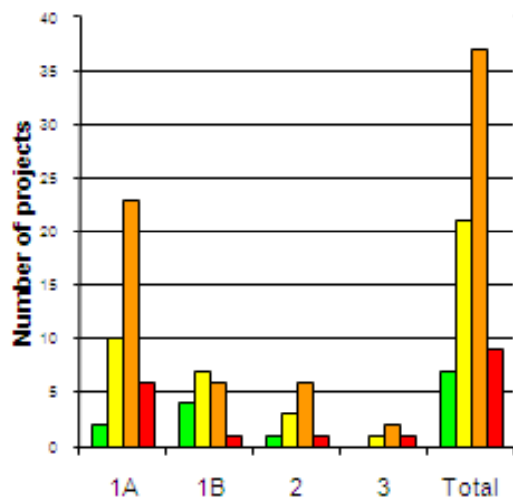
Significant impact

Minor impact

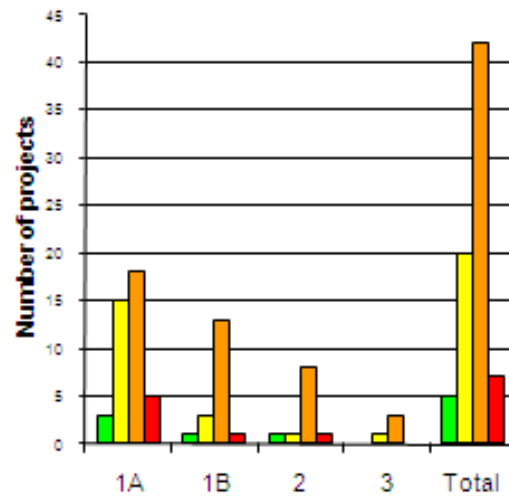
No impact

A decrease in the given variable

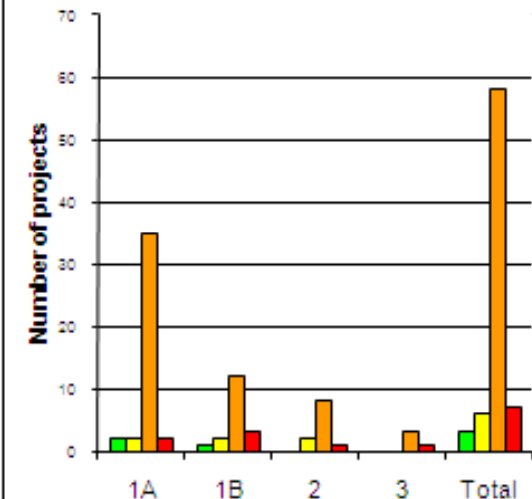
Poverty reduction



Business creation



Employment





Use of Data by the Projects

- Project management
- Lobbying of governments, international bodies to support initiatives
- Applying for funding of projects, demonstrating the successes made
- Creating awareness within target groups of the potential benefits of participating in the project
- An example of displaying data on a website:
<http://data.worldbank.org/topic/energy-and-mining>



Indicators – Summing Up

- It is relevant to include project reporting on indicators as an activity in the project
- Monitoring activities are important
 - to find out whether project is achieving its goal
 - to demonstrate project successes
 - or whether there are bottlenecks which can be prevented
 - allowing the projects to adapt
 - remember to keep focus on expected outcomes not on implementation of activities as a goal in itself!



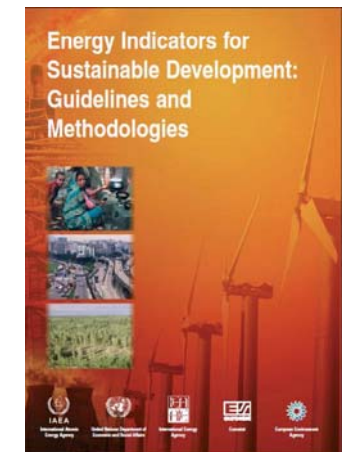
Useful Links

- EU Energy Facility Thematic Fiche on indicators:
http://energyfacilitymonitoring.eu/images/stories/publications/thematic_fiche_1.0.pdf
- Project Cycle Management Guidelines (PCM Guide)
 - http://ec.europa.eu/europeaid/multimedia/publications/documents/tools/europeaid_adm_pcm_guidelines_2004_en.pdf [en]
 - http://ec.europa.eu/europeaid/multimedia/publications/documents/tools/europeaid_adm_pcm_guidelines_2004_fr.pdf [fr]
- Official list of MDG indicators -
<http://mdgs.un.org/unsd/mdg/Host.aspx?Content=Indicators/OfficialList.htm>
on <http://mdgs.un.org/unsd/mdg/Home.aspx>
- Energy Services for the Millennium Development Goals - The UN Millennium Project:
http://www.unmillenniumproject.org/documents/MP_Energy_Low_Res.pdf
- Indicators incorporating gender and energy sensitivity:
http://www.undp.org/energy/genenergykit/engender3_3.htm
- capacity4dev website <http://capacity4dev.ec.europa.eu/> Monitoring activities: see "Guidelines on technical Cooperation", Chapter 6, "Monitoring, evaluation and quality assurance".





- "Indicators of sustainable development: Guidelines and Methodologies" A source of indicators in several areas including the environment:
<http://www.un.org/esa/sustdev/publications/indisd-mg2001.pdf>. Page 226-252: Indicators in the field of energy.
- "Environmental Integration Handbook for EC Development Co-operation". Annex 10: Indicators (environmental)
 - http://ec.europa.eu/europeaid/multimedia/publications/documents/thematic/europeaid-%20environmental-handbook_en.pdf[en]
 - http://ec.europa.eu/europeaid/multimedia/publications/documents/thematic/europeaid-%20environmental-handbook_fr.pdf[fr]
- "Energy indicators for sustainable development"
http://www-pub.iaea.org/MTCD/publications/PDF/Pub1222_web.pdf





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THANK YOU