



ACP - EU Energy Facility
Monitoring

Indicators

Selection of indicators for energy projects

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Selection of indicators for energy projects

- 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
- General objectives of the Energy Facility
 - poverty reduction,
 - improvement of livelihood,
 - access to energy services,
 - improved governance and management of energy
- **What are some good indicators for measuring the achievement of these objectives??**



What are good indicators?

- Issue: How can we measure:
 - improved livelihood / welfare ?
 - improved access to energy ?
 - improved governance ?
- SMART indicators (Specific, Measurable, Available at an acceptable cost, Relevant with regard to the objective concerned, Time bound)
- Where do you get information from – outside sources / baseline study?
- Set **baseline value** of the Indicator – how is it set?
- 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.



Difficulties when setting indicators

- Indicators to which the activity cannot contribute
- Indicator of activity versus indicator of result
- No baseline or target
- Too many
- Too difficult / costly to verify



Examples of non-precise 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?
	% 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?



Some indicators measuring achievement in energy projects

Impact on livelihood

Key performance area	Objectively Verifiable Indicator of achievement
1.1 Poverty reduction	Decrease in the proportion of population below \$1 purchasing power parity (PPP) per day
1.2 Business creation	Creation of new enterprises in the target areas as a verifiable result of project outputs
1.3 Employment	Jobs created in the project area as a verifiable result of the project outputs



Impact on access to energy services for the un-served population

Component 1

- **First Energy Facility:** Increased access to Energy services for the un-served population in ACP countries – focused on the improvement of the economic and social conditions of poor communities in rural areas
- **Second Energy Facility:** To increase access to modern, affordable and sustainable energy services for rural and peri-urban poor by focusing on renewable energy solutions as well as on energy efficiency measures



Some indicators measuring achievement in energy projects

Impact on access to energy for the un-served population

Area of impact	Operational Description	Objectively Verifiable Indicator of achievement
2.1 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>2.2 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
2.3 Access to energy services in households in the project area	Household cooking and lighting needs increasingly met by sustainable and affordable energy services	Improved cooking facilities (e.g. improved stoves sold) Households with access to reading light in one room 4 hours per day (75kWh) Total electricity consumption in households (Generation capacity / number of beneficiaries)



Impact on governance Component 2

- 1st Energy Facility: Improved governance and management of energy with reference to the poor at regional/ transboundary, national and local levels in ACP countries and regions”
- 2nd Energy Facility: To improve governance and framework conditions in the energy sector at regional, national and local levels, in particular those aimed at promoting renewable energy and energy efficiency



Area of impact	Operational Description	Objectively Verifiable Indicator of achievement
3.1 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.
3.2 Stakeholder networks	Stakeholder networks built and functioning	Number of stakeholder networks active one year after initiation
3.3.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



Monitoring – indicators and benchmarks

- Monitoring activities of the whole Energy Facility projects must be done having some common indicators
 - Monitoring of the whole impact of the Energy Facility
 - Prevent large disparities between similar projects in terms of the indicators used in project Logical Frameworks
 - Projects also have their own indicators, allowing to take into consideration project specificities



TA to the EC Delegations for the monitoring of the Energy Facility's projects

- What is the overall trend towards the achievement of the objectives of the Energy Facility
- 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 retrieve and report on the indicators
 - The indicator must be retrieved 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:

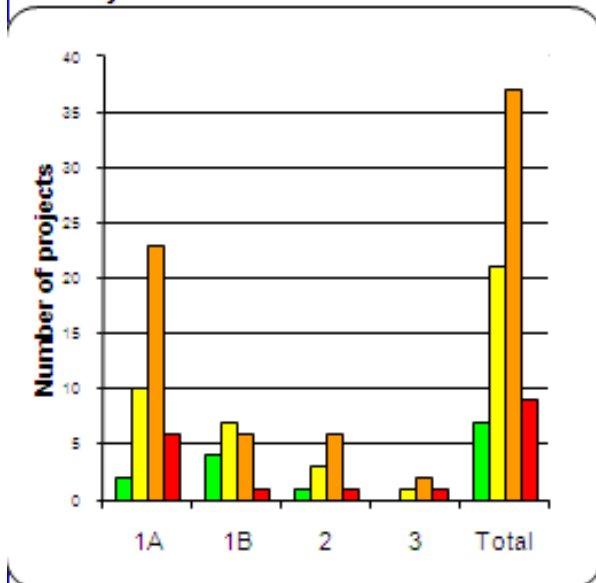
Significant impact

Minor impact

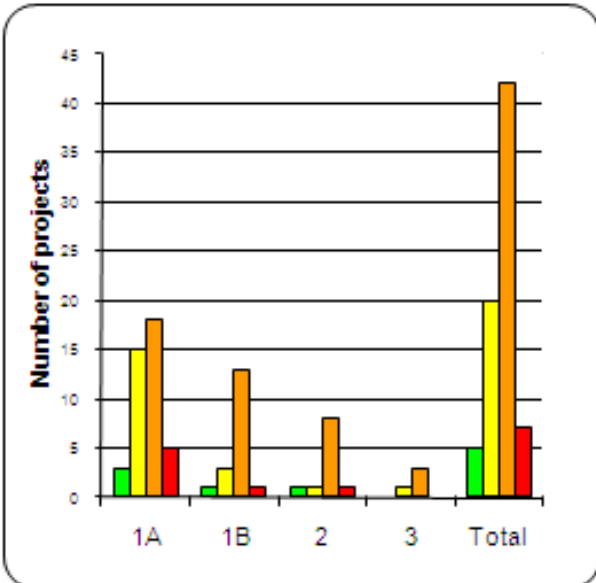
No impact

A decrease in the given variable

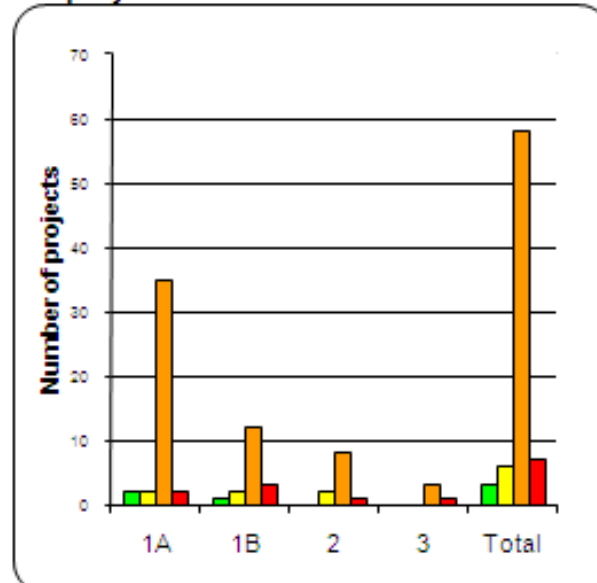
Poverty reduction



Business creation



Employment



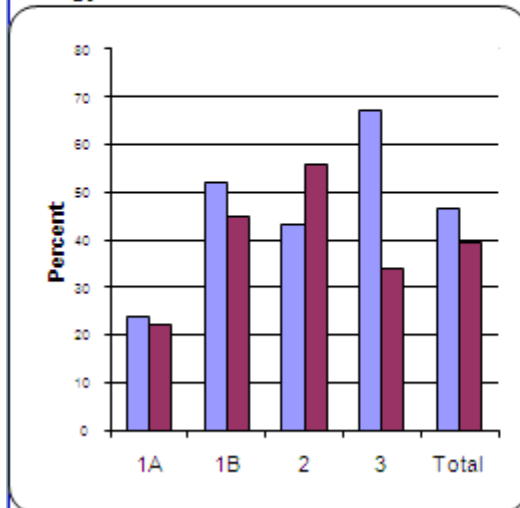
Impact on access to energy services for the unserved population

Achievement in % of yearly targets - Performance scores per component and total

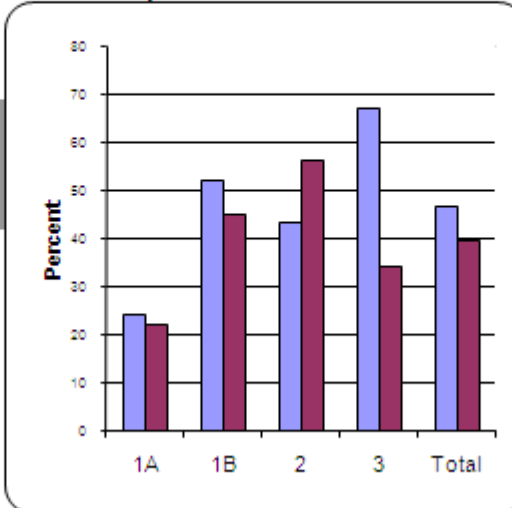
Current achievement

Previous achievement

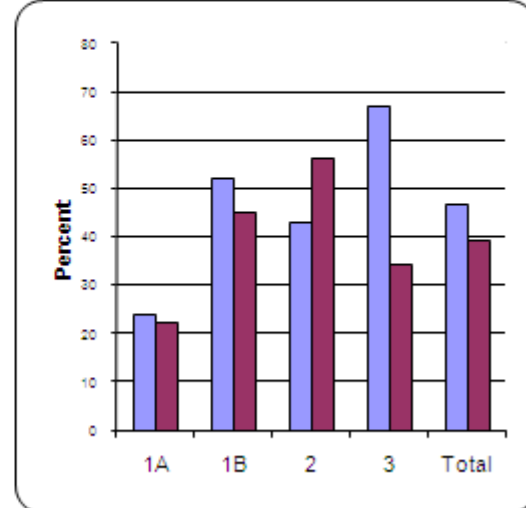
Energy infrastructure



Access for public facilities & communities



Access for households



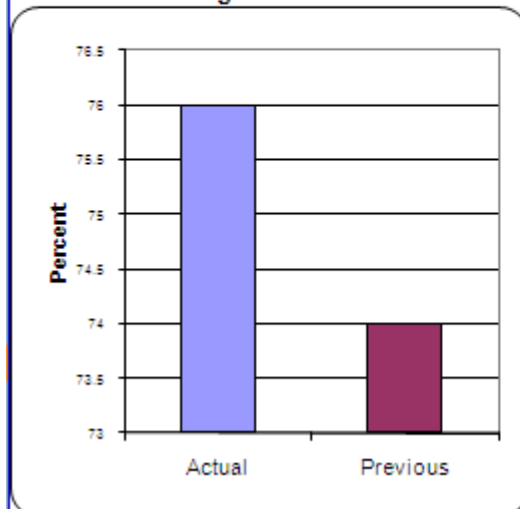
Impact on governance and management of energy

Achievement in % of yearly targets - Performance scores - Component 2

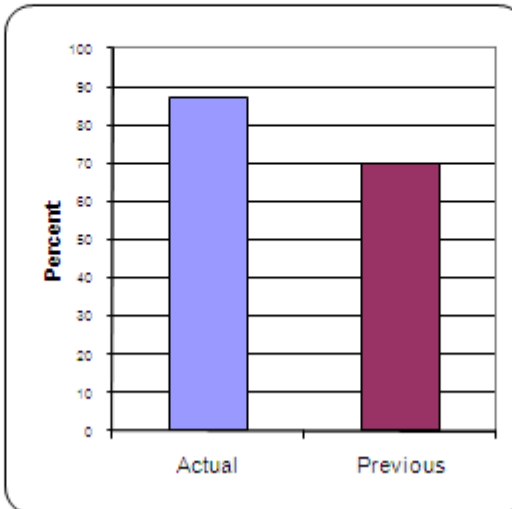
Current achievement

Previous achievement

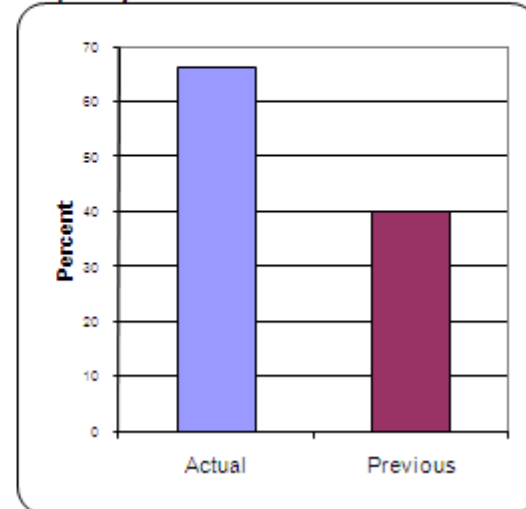
Plans and strategies



Stakeholder networks



Capacity





Summary of 74 EF Project Performance

Criteria	Overall	Comp 1a	Comp 1b	Comp 2	Comp 3	
Efficiency	b	b	c	b	b	a: Very good
Effectiveness	b	c	a	c	a	b: Good
Impact Prospects	b	b	c	a	b	c: Problems
Potential Sustainability	b	b	d	a	a	d: Serious deficiencies
Visibility	c	c	b	c	b	



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,
 - or whether there are bottlenecks which can be prevented
 - Allowing the project to adapt
 - Remember to keep focus on expected outcomes not on implementation of activities as a goal in itself!