

GFSE 6, Wien, 29 Novembre 2006

Energy and Development:
*Learning from Errors,
Demonstrating Success*

Ministère des Affaires Étrangères / Direction Générale de la
Coopération Internationale et du Développement

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Learning from errors

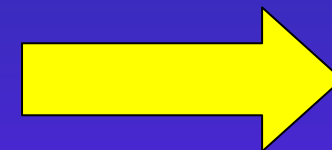
- Sharing experience is essential

but ...

- Who wants to talk about failure?

Have we demonstrated that:

Energy Services + Other factors



Development (MDGs, ...)

The difficulties

- Development mechanisms:
 - Energy alone \neq Development
- Evaluation challenge: "attribution gap"
 - Impacts distant, in time and space
 - Several inputs, many types of impact
 - Perimeter for evaluation
 - Complex causal chains

M&EED

- Monitoring and Evaluation for Energy and development

EUEI

GVEP

EDF

GNESD

UNEP

IT Power

ENERGIA

ESMAP, UNIDO, IAEA, UN Foundation,,,

GTZ

ADEME

PNUD/PREP

FES

SenterNovem

Fraunhofer ISI

M&EED: Monitoring and Evaluation for Energy and Development

- Initiated by GVEP and EdF
- Participation and support from:

EUEI

ADEME

UNDP

FES

World Bank - ESMAP

IT Power

UNEP


No "One size fits all" solution

→ Project specific M&E

Inputs → Activities → Outputs → Outcomes → Impacts

- Skills → How, what skill, how long
- Financing → How much, how long
- Logistics → Trips, offices, communication, ...
- Political support → ?
- Equipment →
 - Generators → kVA, type
 - Lignes → where, kV, length
 - Lamps → how many
 - Stoves → type, how many, efficiency


Inputs → **Activities** → Outputs → Outcomes → Impacts

- 
- Install → **What, function**
 - Build → **What, how big, how good**
 - Train → **Who, what skills**
 - Think together → **Written conclusions?**
 - Meet → **Meeting records**


Inputs → Activities → **Outputs** → Outcomes → Impacts

- 
- | | | |
|-----------------------|---|---|
| – Electricity | → | kWH, number of households |
| – Refrigeration | → | How many clinics |
| – Lighting | → | Households, public facilities, ... |
| – Cooking | → | Nb. households, nb. of meals |
| – Process food | → | Type, quantity, value |
| – Craft/industry | → | Nature, quantity, value |
| – Citizenship | → | |
| • Feeling of cohesion | → | Interviews |
| • Lower crime | → | Statistics |

Inputs → Activities → Outputs → **Outcomes** → Impacts

- 
- Vaccinations → **How many**
 - Children in school → **How many**
 - Foods products → **Kind, quantity, value**
 - More time for women → **How much**
 - Craft products → **Value**
 - Wood not cut → **kg per family**

Inputs → Activities → Outputs → Outcomes → Impacts



| | | |
|---------------|---|--|
| – Health | → | Health statistics |
| – Education | → | Literacy rate |
| – Incomes | → | Household surveys, national stats proxy = number of bicycles, ... |
| – Environment | → | kTCO₂ not emitted, ha of forest |
| – Equipment | → | |
| • Generators | → | kVA, type |
| • Power Lines | → | where, kV, length |
| • Lamps | → | how many |
| • Stoves | → | type, how many, efficiency |

GVEP: Global Village Energy Partnership



www.monitoringandevaluation.org

