

Private Sector Participation in Micro-Hydro Power Supply for Rural Development, Rwanda (PSP Hydro) – Baseline Study

Terms of Reference for a Baseline Study at Murunda/Rutsiro Project Site

1. Background and Objectives of the Baseline Study

The basic characteristics of this development measure already become clear through the project title: “Private Sector Participation in Micro-Hydro Power Supply for Rural Development, Rwanda” (PSP Hydro). Concretely, PSP Hydro envisages supporting five private Rwandan Project Developers financially and with ongoing training. The intervention is realized under the umbrella of the Dutch-German Energy Partnership “Energising Development” (EnDev). For more information on the project, see chapter 1.3 of BENSCH & PETERS 2008, which reports on the first four sites.

The objectives of the present study for the fifth site, Murunda/Rutsiro, and the resulting report are:

1. Provide a first analysis for a monitoring of the impact of PSP Hydro on the socio-economic conditions in the target regions.
2. Investigate the development effect of the intervention through with- without comparison.
3. Provide data and analysis that could be used in a future before-after analysis of the project impact.
4. Reducing uncertainty about demand assumptions in the target region.
5. Surveying the anticipated requirements of complementary activities.¹

For that reason, two further control sites will be surveyed apart from the project site Murunda/ Rutsiro.

2. Realisation of the Baseline Study

2.1 Preparation of the Baseline Study

The pre-departure preparation until November 21, 2008 comprises the following tasks to be realised by the RWI Experts:

¹ BENSCH & PETERS 2008, chapter 2.1. This report BENSCH & PETERS 2008 presents the findings of the first PSP Hydro Baseline on those three Project Developers, whose sites and beneficiary areas have already been designed at the time of conducting the survey between April and July 2007.

1. Slight adaptations to the questionnaire already used during PSP Hydro I (in French);
2. Establishment of Excel Matrix;
3. Recruitment of a Survey Team comprising a sufficient amount of enumerators (around six) and a supervisor for field work;

For the realisation of the following tasks, one of the RWI Experts will be present in Rwanda. These tasks are to be realised between November 24 and December 6, 2008.

4. Site Visits of the one second-round PSP Hydro site, Murunda, for survey planning (representative number of interviews, appropriate geographic sequence of the survey) and choice of one or two control sites (depending on the size of the grid-covered region);
5. Preparation of a Training Course for the Survey Team (see description in section 3 below) concerning survey design, survey execution and data compilation;
6. Final Revision of the questionnaire;
7. Planning of organisation and logistics for the survey, with the assistance of the supervisor.

2.2 Realisation of the Survey

During the first phase of the survey, the RWI Expert will be present and responsible for the following tasks:

8. Conducting the survey in Murunda in cooperation with the Survey Team;
9. Preparation of the survey at the control sites in cooperation with the supervisor.

The surveys at the control sites will be conducted by the Survey Team, including the coding of questionnaires and data entry. During this period of time, the RWI Experts

10. provide backstopping to the survey team via e-mail and telephone;
11. are responsible for potential adaptations of the intended survey methodology (sample size, target villages/regions, questionnaire, etc.).

2.3 Compilation, Interpretation, Reporting and Presentation of Results

After data collection and entry, the RWI expert will take charge of the following:

12. Analysis and interpretation of survey results;

13. Inclusion of the survey findings into the existing PSP Hydro Baseline Survey Report, such that all information are adapted to the new data and information base;
14. Continuous exchange of information and discussions with DED-RALGA, who will execute a survey on productive use of energy in the intervention areas following the baseline;
15. Knowledge Management: short paper (in note form) of practical experience made and lesson learnt for upcoming surveys concerning the questionnaire design, survey logistics, etc.

3. Team

The RWI Experts will be supported by the following persons ("Survey Team"):

- Supervisor: one staff member of International Business Center (IBC), Kigali, who already participated in the first PSP Hydro Baseline Survey in 2007.
- One group of up to six Enumerators. They are assembled by International Business Center (IBC), Kigali.

4. Timeline

Pre-Departure Preparation of the Baseline Study:

Until November 21, 2008

In-Country Preparation of the Baseline Study:

Between November 24 and November 29, 2008

Realisation of the Survey (with RWI expert present):

Between December 1 and December 6, 2008

Realisation of the Survey (without RWI expert present):

Between December 8 and December 21, 2008

Data Compilation:

Until January 9, 2009

Interpretation, Reporting and Submission of Report Draft Version:

Until February 28, 2009

Comments by GTZ Energising Development on the draft version will be incorporated within 15 days after reception.

Adaptations of this time line will be made only after consultations of GTZ Energising Development.

5. Resources

The PSP Hydro Project in Rwanda will conclude a contract with the local Survey team, which will include costs for transport, copying/printing of documentation, a budget for telecommunication as well as for per diems / over-night accommodation at the survey sites. The PSP Hydro Project in Rwanda will also organize a conference facility if needed.

6. Deliverables

All documents and data compiled in the course of the Baseline Study shall be handed over to GTZ Energising Development up to March 30, 2009. The core deliverables of the present assignment consist in:

1. Baseline Report, incl. complete dataset. The baseline report should comprise:
 - Introduction
 - Description of the baseline approach
 - Site descriptions and socio-economic profile
 - Analysis of survey results with regard to income levels, energy usage patterns and expected impact of the PSP Hydro project
 - Conclusions and recommendations