



PREFEASIBILITY STUDIES OF FOUR PROPOSED HYDROPOWER SITES (APPROX. 200 MW) HYDROPOWER PORTFOLIO IN ZAMBIA

PROJECT: PREFEASIBILITY STUDIES OF FOUR PROPOSED HYDROPOWER SITES (APPROX. 200MW) HYDROPOWER PORTFOLIO
TYPE: HYDROPOWER
LOCATION: ZAMBIA
CLIENT: MPISHI ENERGY
PERIOD: 2017





PROJECT OVERVIEW

With a total installed capacity of 2,827 MW for electricity production, Zambia largely relies on major hydropower projects (2,388 MW), with the remaining energy coming from coal (300 MW), heavy fuel oil (50 MW), diesel (89 MW), and solar power plants (0.06 MW). The Zambian Government had plans to meet the rising electricity demand with additional hydropower installations, improvement and expansion of existing hydropower installations, the addition of solar PV farms and the possible addition of geothermal power stations.

Proess was engaged by Mpishi Energy to conduct a pre-feasibility study of 4 hydropower sites with a generation capacity upwards of 200 MW.




Prefeasibility Studies were carried out for 4 sites that included:

1. **Kabompo hydropower site** in the north-western province, located in Kabompo district a second-order administrative division, northern province about 5-hour drive to the southwest of Solwezi.
2. **Matukuta hydropower site** on river Muombezi in the north-western province, located about 2-hour drive to the northwest of Solwezi towards Kalumbila/Lumwana
3. **Ntumbashushi hydropower site** on river Ngone in Luapula province, located in Mporokoso district a second-order administrative division, northern province; and
4. **Lumangwe hydropower site** on river Kalungwishi in the northern province located in Mporokoso district a second-order administrative division.

SCOPE OF WORK

Proess was engaged to conduct a pre-feasibility study of 6 hydro power sites with a generation capacity upwards 200 MW.

EXPERTISE

- Project Management
 - Reconnaissance survey
 - Preliminary hydrological studies.
 - Analysis of power evacuation
- 
- 