PÖYRY CASE SUMMARY

Kafue Gorge Lower HPP, Zambia
Environmental and Social Impact Assessment Update

ESIA for Kafue Gorge Lower HPP in Zambia

**Project**
Kafue Gorge Lower HPP, Environmental and Social Impact Assessment Update

**Client**
ZESCO Ltd.
Lusaka

**Country**
Zambia

**Services**
- Data Collection
- Inception Report
- Site Investigation Report
- Update ESIA
- Update ESMP
- Non-technical Summary

**Execution Period**
2015 - 2016

**Background and Objectives**
The Kafue Gorge Lower Hydropower Project (KGL HPP) is located in southern Zambia on the Kafue River, a primary tributary of the Zambezi River and about 60 km south of the capital Lusaka.

The total installed capacity of 750 MW (i.e. 5x150 MW machines) shall be installed in a fully enclosed and water-proof surface powerhouse complete with 5x171 MVA unit step-up generator-transformers, control room, relay, communication, ancillary equipment etc., a 330 kV switchyard to accommodate three outgoing 330 kV line bays connecting to the 330 kV ZESCO national grid, five in-coming generator-transformer bays supplied from the Kafue Gorge Lower Power Station, and other associated roads and other community, municipal and social infrastructure to enable full operation of the constructed power plant.

**Scope of Work**
- Project description, including maps, operation, organization, cumulative impacts
- Update the previous ESIA for the development of the Kafue Gorge Lower Hydropower Project and the associated Transmission Line ESIA to a bankable level for soliciting financing from public, private and multilateral institutions; and
- Non-technical Summary
- Update the Environmental and Social Management Plan (ESMP) for the Kafue Gorge Lower Hydropower Project in line with the updated ESIA.

**Project Impact**
The ESIA update prepared by Pöyry meets national and international standards and takes account of best practices in hydropower development. It is closely linked to the electricity development plans for promotion of renewable energy in Zambia.