



LOM PANGAR HYDROPOWER PROJECT – COMPLEMENTARY SURVEY ON TIMBER AND BIOMASS HARVESTING POTENTIAL

Ref.
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Expert(s)	Country	Volume (md)	Amount* (€)	Beneficiary	Funding	Start date	End date	Partner(s)	Reference
Jérôme Maurice	Cameroon	35	26,250 <i>*For the referred expert, within ONFI</i>	Electricity Development Corporation	World Bank	Nov. 2010	Feb. 2011	ONF Cameroun, Pöyry Environnement	onfcameroun@gmail.com +23799996032

Detailed description of the project	Services provided
<p>The Lom Pangar Hydropower Project (LPHP) is located in eastern Cameroon, upstream on the Sanaga river, where the Lom river meets the Pangar river, close to the Deng Deng National Park. The LPHP is intended to be one of the “great achievements” contributing to develop the energy sector of the country. Its total cost approximates 393 million USD financed partly by the World Bank, the AfDB, the BDEAC, the EIB and the French Development Agency. Electricity Development Corporation (EDC), a Cameroonian company, is in charge of the project’s construction and exploitation.</p> <p>The LPHP reservoir will help to regularize the Sanaga river flows, in order to optimize the exploitation of two major dams located downstream (Song Loulou and Edéa). Given the local topography, the reservoir should drown around 60 000 ha of land, including 32 000 ha of forests. It might represent 1 million cubic meters of timber and 14 million tons of biomass. Thus, there is an opportunity to valorize these resources, while reducing the greenhouse gas emissions of the reservoir.</p> <p>A social and environmental impact assessment has been realized by Oréade Brèche in 2005. EDC decided to realize a complementary study on timber and biomass harvesting potential within the reservoir. The objective was to develop a forest harvesting plan for timber and biomass, including forest management guiding principles to be applied during the construction and exploitation phase outside the reservoir, in order to mitigate environmental and social risks linked to the harvesting plan. The results of the study have been integrated to the Environmental and Social Management Plan of the LPHP.</p>	<p>Under the supervision of the team leader (ONF Cameroun) the expert participated to every components of this study, through a 3-month field mission and a final restitution. The following activities were carried out during the field mission :</p> <ul style="list-style-type: none"> • Mapping of the project’s area between the dam construction area, upstream watershed areas of the Lom (Bétaré Oya, Touraké) and the Pangar (Mararaba, pipeline Tchad-Cameroon tracks), in order to facilitate the design of roads; • Forest inventories in the area of closed rainforests next to the Deng Deng National Park; • Survey of the interest and capacities of the national and international logging companies for timber harvesting in the LPHP reservoir; • Survey of the softwood’s economic chain of value from Lom Pangar to North Cameroon and Tchad; • Survey on charcoal’s economic chain of value at local scale. <p>Results of these activities made it possible to establish : (i) a timber harvesting plan (parcels, roads/tracks, economic assessment) integrated to the Environmental and Social Management Plan ; (ii) a management plan for the forests outside the reservoir (communal and community forests, measures counter-poaching and counter-illegal logging, evaluation of the income generating activities proposed, local population participation), along with a set of propositions to mitigate environmental and social risks linked to timber harvesting and biomass removal.</p>