

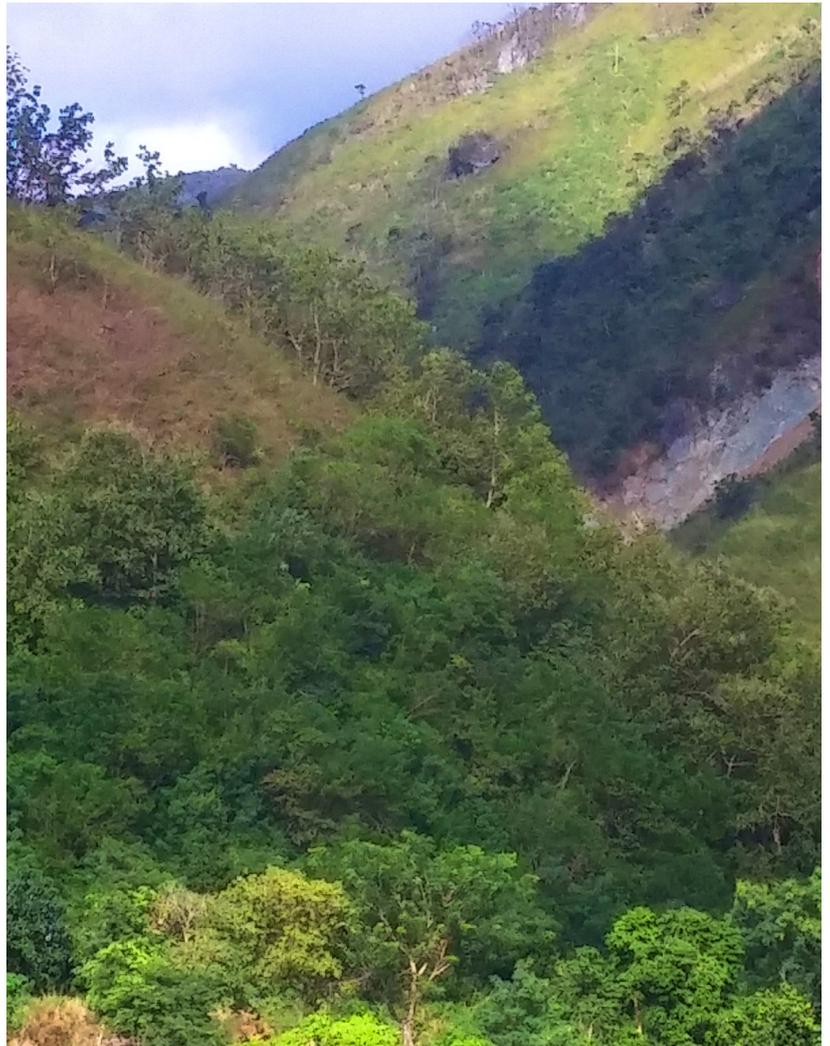
# 4.6MW Dupinga Hydro Power Project



## Project Highlights

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- Community consultation integrated at every step
- Supports traditional ways of life of the Dumagat Indigenous Peoples
- Provides 500 local workers with construction-phase employment
- Partnership with Markham Resources



## Overview

Once in operation, Alternergy's Dupinga run-of-river hydro project will have a significant impact on power supply to the immediate communities: With a capacity of 4.6MW, the energy produced at the Dupinga site will amount to almost 15 percent of the total electricity demand of the villages served by the local distribution utility, the Nueva Ecija II Electric Cooperative Area 2.

What's more, Alternergy is poised to further leverage its relationship with Markham Resources, the firm we are partnering with to bring the Dupinga project to life. Our two organizations are developing other renewable projects that will build on the foundation we have established through this work together.

## Community Partners, Community Benefits

A grassroots consultation process sits at the heart of Dupinga. Without the buy in of the local people, the project would remain only a plan on paper, rather than a source of employment for more than 500 people during the construction phase, and a means to improve power reliability to the host communities, which sit at the end of the distribution grid. Alternergy conducted more than a dozen consultation sessions over the course of a year with community leaders, residents, teachers, and the church, reaching more than 1,000 individuals across six downstream villages with information about the benefits of renewable energy and the ways the project will positively impact the local area.

Additionally, we worked closely with the Dumagats Indigenous Cultural Communities and the National Commission on Indigenous Peoples to ensure traditional ways of life are supported and protected within the Sierra Madre mountain range. From buying seedlings from local growers for our tree-planting initiatives, to preserving the Dupinga watershed and designing training plans for livelihood



opportunities, Alternergy will continue to actively develop Community Benefit programs that meet residents' needs.

We are committed to the Nueva Ecija province for the long-term: For every kWh generated, 1 centavo will be contributed to the Energy Regulation's 1-94 Fund, which distributes funds across livelihood, health, reforestation, watershed management, environment enhancement, and development projects. Additionally, a portion of the project's gross income will be given to the Local Government, directly reaching the villages of Malinao, Ligaya, Tagumpay, Bagong Sikat, Calabasa, and Bagting; the Gabaldon municipality; and the province of Nueva Ecija.

## Run-of-River Hydro: Let it Flow

As a small-scale run-of-river hydro plant, Dupinga will divert only a portion of the river through a weir rising a mere 15 meters from the bedrock. After it has been utilized for power generation, the diverted water will be flowed back into the Dupinga River. Dupinga and other run-of-river hydro plants are the opposite of large dams, which tower 50-150 meters and disrupt water's natural trajectory.

Dupinga's headrace – the pipeline where the diverted water will pass through – will be installed at the side of the mountain that leads down to the river, meticulously following the rocky pitches and slopes. The powerhouse, which requires level ground, has been positioned on flat, downstream land, avoiding the need to level the terrain.