

LOWER SAUT MATHURINE HYDROPOWER PROJECT

Downstream of the existing Saut Mathurine power plant located on the Riviere Cavillon, there exists the possibility of constructing a hydro power station of the run-of-the-river type. This potential facility will be referred to as the Lower Saut Mathurine (LSM) power plant.

The LSM project will consist of a 2 meter high dam that will store and divert the flow to a silt trap and a forebay connected to a 2,360 meters long glass reinforced pipe (GRP) penstock of 1,219 mm in diameter. The penstock will bifurcate into a two branches manifold that will provide the



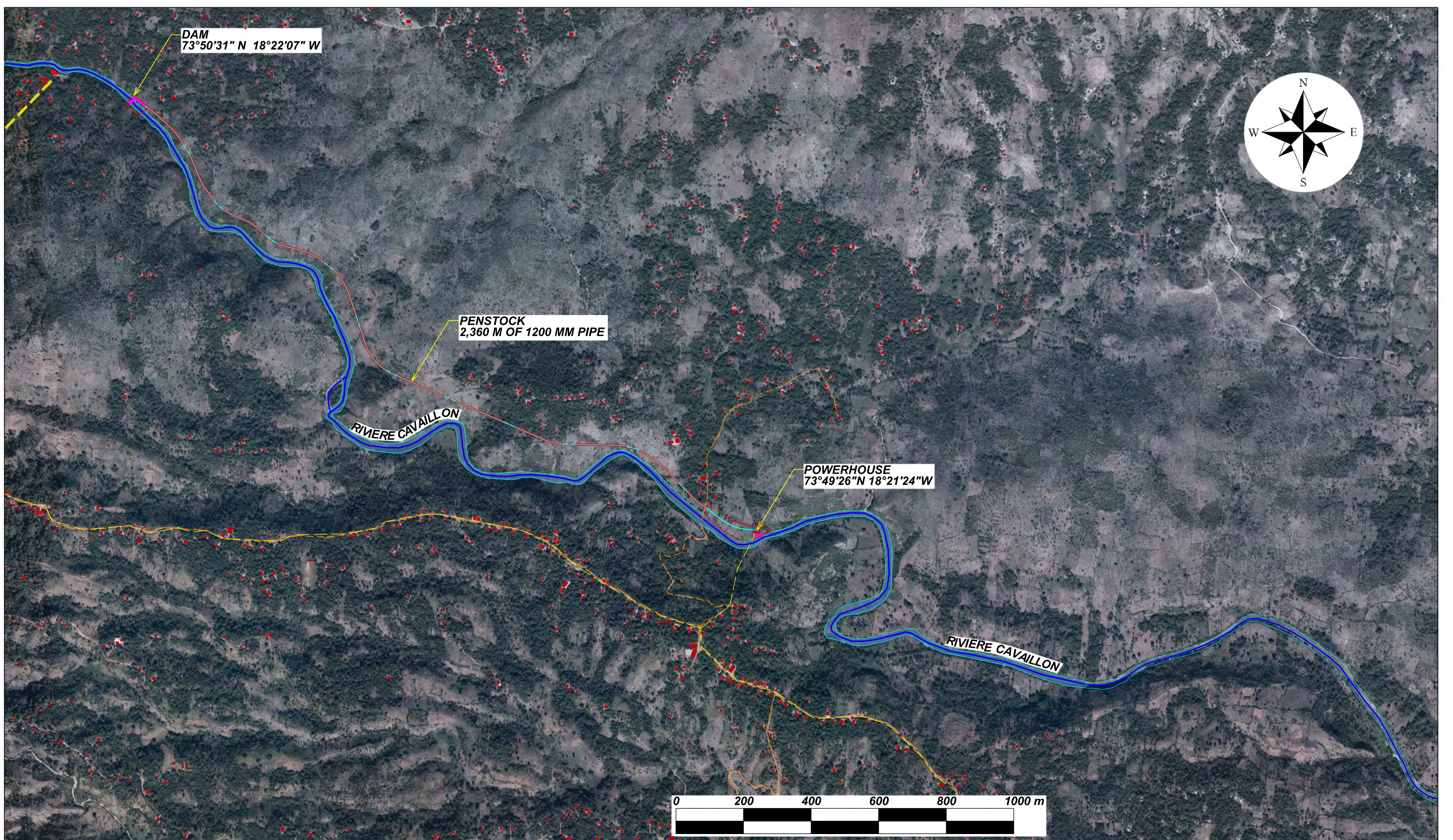
necessary flow to drive two Francis type turbines rated at 625 KW each. The proposed power plant will be connected to an existing 23 KV line via a high tension line of the same less than 200 meters long.

The hydraulic and hydrologic analyses have been performed for this project and the installed capacity has been estimated at 1,250 KW. The minimum yearly energy production is estimated at 6,069,748 KWH, and the maximum at 10,522,938 KWH. The construction cost has been estimated at \$8,600,000 which also includes cost on financing and contingencies. The project is summarized in the table below. A preliminary financial analysis has been made on the mean annual energy production of 8,086,353 KWH, and a project cost of \$8,600,000. The result of the financial analysis shows a satisfactory positive cash flow and IRR on the equity.

The project preliminary studies have been performed and the feasibility verified both by the United Nations Environmental Program (UNEP) and Norwegian engineers. The environmental impact studies have been completed, and submitted to the Ministry of Environment, and the Ministry of Agriculture. Following the approval of the environmental impact studies, we have applied and obtained the water usage permit.

LOWER SAUT MATHURINE HYDRO POWER STATION PROJECT SUMMARY

LSM PROJECT SUMMARY		
PROJECT DATA		
Head	65	m
Flow	2.32	m ³ /s
Maximum Power	1,225	kw
Average Power	923	kw
Minimum Power	433	kw
Turbine Type	Francis	
Number of Turbines	2	
Canal Length	20	m
Penstock Length	2,360	m
Penstock Diameter	1.219	m
Transmission Line Length	0.200	km
Min. Yearly Energy	6,069,748	kwh
Mean Yearly Energy	8,086,353	kwh
Max. Yearly Energy	10,522,938	kwh



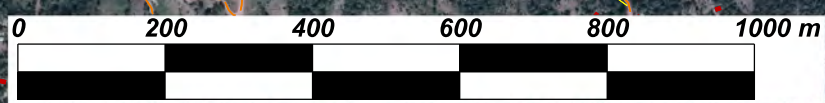
DAM
73°50'31" N 18°22'07" W

PENSTOCK
2,360 M OF 1200 MM PIPE

POWERHOUSE
73°49'26" N 18°21'24" W

RIVIERE CAVAILLON

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