

POTENTIAL HYDROPOWER SITES IN GUYANA

REF NO.	REGION	NAMES OF SITES	RIVERS	POWER (AV CONTINUOUS ENERGY)	COORDINATES		TOPOGRAPHIC SHEETS	COMMENTS
					LATITUDE	LONGITUDE		
1	1	HOSSORORO	KARIABO	.015 MW	8°-08'-57"	59°-40'-06"	1 SW, SE, NE	
2		MAURU	ARUNA	.01 MW	8°-04'-30"	60°-11'-50"		
3		DINDYAL	ARUKA	.005 MW	7°-55'-06"	60°-08'-30"		
4		ECLIPSE FALLS	BARIMA	4 MW	7°-37'-06"	60°-03'-24"	4 SE, SW, 5 SW, SE	The available hydrological and other data on this site is likely to be updated under a study financed through the Hinterland Project Preparation Component of the Unserved Areas Electrification Programme.
5		TOWAKAIMA	BARAMA	6 MW	7°-18'-58"	59°-57'-18"	9 NE, 10 NW, SW	
	2	NIL						
	3	NIL						
6	4	LOO CREEK	LOO CREEK	.01 MW	6°-15'-00"	59°-46'-30"		
	5	NIL						
7		BARRINGTON BROWN	NEW RIVER	7 MW	3°-18'-04"	57°-36'-37"	68 NE, SE, 69 NW, SW	

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8		BARRINGTON BROWN FALLS	BARRINGTON BROWN	65 MW	36°-19'-06"	57°-39'-29"	68 NE, SW, NW	
9		AMARIPA	NEW RIVER	107 MW	3°-07'-35"	57°-36'-29"	68 SE, NE, 69 SW, 75 NW	
10	7	SABREK	SABREK	7 MW	5°-29'-34"	59°-44'-11"	35 NE, NW, SE, SW	
11		SEMANG	MARAPAIKRU	6 MW	5°-45'-00"	59°-45'-00"	34 NE, NW, SE, SW	
12		TIBOKU	MAZARUNI	40 MW	5°-43'-35"	59°-36'-58"	34 NW, SE, NE, SW, 42 NE	This site will no longer be available once the Upper Mazaruni and Turbruba sites are developed.
13		KABURI	KABURI	6 MW	6°-06'-41"	58°-34'-55"	36 NW, SW, 27 SW	
14		ARISARU	ESSEQUIBO	120 MW	6°-15'-00"	59°-46'-30"	27 SE, NE, 28 SW	In August 2003 the Government signed an MOU with the Guyana Poverty Alleviation Group, a non governmental organization from the USA managed by persons of Guyanese origin, which granted an exclusivity period of two years to study this site. This MOU expired with the proposed developer accomplishing minimal or none of its obligations.
15		IKURIBISI	IKURIBISI	0.7 MW	6°-12'-34"	58°-43'-40"	27 NE, SE, SW, 36, NE, NW	
16		TEPERU	TEPURU	0.1 MW	6°-15'-49"	58°-49'-49"	27 NE, NW, SW, SE	

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17	7	TURTRUBA	MAZARUNI	320 MW	6°-19'-20"	58°-43'-40"	27 NE, NW, SE, SW	Government signed a Memorandum of Understanding with a Trinidadian firm ENMAN Services Ltd., which grants the firm a period of exclusivity until July 31, 2007 to carry out studies on the feasibility of this site. In August 2005 the developers completed their pre-feasibility study which confirmed average power output of 650-760 MW. This group is now working on strategies to access about US \$10-15M required to take the project to a bankable status. A request has been made for a further extension of the MOU for two (2) years or the grant of an Interim Licence to facilitate the leverage of financing for the full feasibility study. Market options for the power include export of power via underwater High Voltage Direct Current cables.
18		WINEPERU	WINEPERU	.025 MW	6°-11'-45"	59°-27'-15"		
19		KAMARIA	CUYUNI	103 MW	6°-29'-21"	58°-48'-45"	27 NE, NW, SW	
20		OKO BLUE	CUYUNI	162 MW	6°-28'-28"	58°-51'-06"	27 NE, NW, 19 SW	
21		PURUNI	PURUNI	13 MW	6°-20'-11"	59°-19'-14"	26 NE, NW, SW	
22		DEVIL'S HOLE	CUYUNI	62 MW	6°-49'-06"	59°-46'-17"	17 NW, NE, SW, SE	In February 2007 the Government signed an MOU with Guyana Goldfields Inc. which grants the company an exclusivity period of two (2) years to conduct the feasibility study on the development of a hydropower plant to initially supply 35 MW electricity to its mining site at Aurora.
23		CHI-CHI DIVERSION TO MERUME RIVER	MERUME		5°-49'-59"	59°-56'-04"	34 NW, SW, 33 NE, SE	
24		CHI-CHI	MAZARUNI	96 MW	5°-34'-14"	60°-13'-44"	33 NE, SE, SW, 34 SW	
25		KUMARAU	KURUPUNG	86 MW	6°-08'-20"	60°-20'-36"	24 SW, NW, NE, 33 NW	

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26		UPPER MAZARUNI DIVERSION SCHEME	MERUME	1320 MW	6°-16'-42"	60°-24'-17"	24 NE, NW, SE, SW	<p>Government signed a Memorandum of Understanding with two Japanese organizations (UNIC & RITE), which granted a period of exclusivity until November 15, 2006 for studies on the site. The proposed developer had conceptualized the development of 1750 MW of firm power at Sand Landing; Mazaruni River to supply a hydrogen based fuel plant which would have also utilized biomass. That MOU ended in November 2006.</p> <p>In February 2007 the Government granted RUSAL exclusive rights for an initial period of three (3) years to conduct a pre-feasibility study of this site. It is intended that the power produced would supply an aluminum smelter.</p>
27		APAIKWA	MAZARUNI	34 MW	6°-21'-17"	60°-22'-26"	24 NW, NE, SW, SE	
28		PEAIMA	MAZARUNI	19 MW	6°-23'-15"	60°-35'-32"	23 NE, SE, 24 NW	
29		ARUWAI	MAZARUNI	38 MW	6°-18'-13"	60°-36'-54"	23 NE, SE, 32 NE, SE	
30		CHITIGOKENG	MAZARUNI	31 MW	6°-11'-41"	60°-37'-51"	23 SE, NE, 32 NE, SE	
31		SAND LANDING	MAZARUNI	650 MW	6°-00'-28"	60°-39'-44"	23 SE, 32 NE, SE	
32		N° 1 DAM MAURU	MAURU	14 MW	5°-36'-09"	61°-03'-33"	31 SE, NE, 32 SW	
33		GREAT FALLS	KAMARANG	13 MW	5°-41'-25"	61°-07'-14"	31 SE, NE	
34		UTSHI	UTSHI	17 MW	5°-46'-14"	61°-10'-56"	31 NE, NW, SE	
35		PARUIMA	KAMARANG	26 MW	5°-47'-48"	61°-02'-48"	31 NE, SW 32 NE, NW	
36		N° 5 DAM EKREKU	EKREKU	1 MW	6°-40'-47"	60°-50'-39"	15 NW, SW, SE, 14 SE	
37		N° 4 DAM EKREKU	EKREKU	20 MW	6°-37'-43"	60°-50'-11"	15 NW, SW, SE	
38		N° 2 DAM EKREKU	EKREKU	1 MW	6°-28'-40"	60°-50'-07"	23 NW, 15 NW, SW, SE	

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39		N ^o 3 DAM EKREKU	EKREKU	5 MW	6 ^o -34'-10"	60 ^o -51'-09"	15 NW, SW, SE, 14 SE	
40		SAKAIKA	EKREKU	17 MW	6 ^o -31'-55"	60 ^o -39'-48"	15 NW, SW, SE, 23 NW	
41		N ^o 1 DAM EKREKU	EKREKU	6 MW	6 ^o -25'-38"	60 ^o -49'-38"	23 NW, 15 NW, SW, SE	
42		AIKWADUIK	EKREKU	5 MW	6 ^o -22'-14"	60 ^o -51'-06"	23 NW, 15 SW	
43	8	CHI-CHI DIVERSION TO THE POTARO RIVER	POTARO		5 ^o -19'-00"	59 ^o -53'-20"	42 NW, SW, SE	
44		AKOBENANG	POTARO	13 MW	5 ^o -04'-43"	59 ^o -40'-36"	42 NW, SW, SE	
45		IATUK	POTARO	77 MW	5 ^o -01'-59"	59 ^o -38'-20"	42 NW, SW, SE	
46		KAIETEUR	POTARO	216 MW	5 ^o -08'-49"	59 ^o -29'-08"	42 SE, 43 SW, NW	This site, which is one of Guyana's tourist attractions, is a protected area.
47		AMAILA	KURIBRONG	103 MW	5 ^o -21'-05"	59 ^o -33'-29"	42 NE, 43 NW, 35 SW	A detailed feasibility study of this site was completed in 2001 and an Interim Licence to develop the project was granted to Synergy Holdings in July 2002 for two years and renewed until July 2007. The developer also obtained an Environmental Permit. Government, GPL and the developer, Synergy Holding signed an MOU in May 2006 for the developer to commission a 100 MW hydro plant in December 2010 to supply power to the national grid.
48		QUEEN DIAMOND	POTARO	29 MW	5 ^o -19'-38"	59 ^o -15'-19"	43 NE, NW, SE, SW	
49		KONAWAK	KONAWAK	.05 MW	5 ^o -18'-50"	60 ^o -56'-30"		
50		TUMATUMARI	POTARO	34 MW	5 ^o -21'-46"	59 ^o -00'-32"	43 NE, 44 NE, NW, SW	
51		ITABU	KONAWARUK	6 MW	5 ^o -14'-21"	59 ^o -01'-01"	43 NE, SE, 44 NW, SW	
52		KURUKABARU	CHIUNG	.01 MW	4 ^o -41'-45"	60 ^o -09'-50"		

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53		KATO	CHIUNG	.3 MW	4 ⁰ -39'-00"	60 ⁰ -08'-18"		Government intends to utilize grant funds from the UNDP and other donor agencies to study the feasibility of installing a pico hydro system at this site to power a pump for the irrigation of agricultural lands.
54	9	MOCO-MOCO	MOCO-MOCO	0.1 MW	3 ⁰ -21'-41"	59 ⁰ -45'-00"	64 NE, NW, SE, SW	The Government owns a 0.5 MW hydroelectric power plant developed at this site and commissioned in 1999. From 1999 – 2003 that hydro plant was operated by the Lethem Power Company. In July 2003 the hydro power plant was put out of service due to a landslide in the vicinity. Preliminary restoration works have been estimated at G\$80M - \$110M. In May 2005 the Government leased the hydro plant to the Lethem Power Company for ten years thereby granting the utility the right to seek a simpler alternative option for the rehabilitation works and to operate and maintain the facilities.
55		KUMA	KUMA	0.1 MW	3 ⁰ -17'-48"	59 ⁰ -46'-50"	64 NE, NW, SE, SW	
56		COZIER	COZIER	0.1 MW	2 ⁰ -21'-09"	59 ⁰ -48'-04"	64 NE, NW, SE, SW	
57		WAMAKARU	WAMAKARU	2 MW	3 ⁰ -23'-53"	59 ⁰ -22'-33"	64 SE, 65 NE, NW, SW	
58		MAPARRI	MAPARRI	4 MW	3 ⁰ -19'-26"	59 ⁰ -17'-31"	64 SE, 65 NE, NW, SW	
59		REWA	REWA	8 MW	3 ⁰ -15'-30"	58 ⁰ -44'-00"	66 NE, NW, SE, SW	
60		KING GEORGE V	ESSEQUIBO	112 MW	3 ⁰ -08'-17"	58 ⁰ -17'-23"	67 NE, NW, SE, SW	
61		MANAROWA	ESSEQUIBO	63 MW	3 ⁰ -16'-50"	58 ⁰ -14'-21"	67 NE, NW, SE, SW	
62		KING WILLIAM IV	ESSEQUIBO	12 MW	3 ⁰ -18'-55"	58 ⁰ -15'-20"	67 NE, NW, SE, SW	
63		PATTERSON	ESSEQUIBO	10 MW	3 ⁰ -32'-38"	58 ⁰ -17'-03"	66 NE, NW, SE, SW	

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64	10	TAKWARI	ESSEQUIBO	346 MW	4°-58'-28"	58°-51'-00"	51 NW, SW, SE, 44 SW	The Trinidadian firm ENMAN was initially granted a period of exclusivity to study this site but preliminary study showed that a vast area would have flooded including the Iwokrama Rainforest Development. That firm was subsequently assigned exclusivity on another site.
65		ANARIKA	ANARIKA	0.1 MW	6°-00'-03"	58°-31'-00"	27 SE, NE, 28 SW	
66		TIGER HILL	DEMERARA	15 MW	5°-38'-57"	58°-22'-26"	37 NE, NW, SE, SW	
67		ITABRU	BERBICE	6 MW	4°-53'-51"	58°-13'-56"	52 NE, NW, SE, SW	