



**DIAMANTE: 700 Kw  
San Salvador, Costa Rica**

May 18, 2014



River Run Hydro seeks an investment partner for \$750,000 cash and guarantee a construction loan for \$2.45 million for a 40% stake, OR, for full capitalization of \$3,000,000 for a 51% stake. The hydro model for Diamante is summarized below.

Parameter	units	Value	
Available Head	feet	420	<p><b>Property:</b> Two adjoining properties, one 62 hecs, the second 8 hecs, privately owned by different parties, bounding the Diamante River, San Salvador, near Tinamastes, south west Costa Rica.</p> <p><b>Access:</b> Good 2WD road access to property with well developed network of internal 4WD roads.</p> <p><b>Grid:</b> Single-phase passes less than 750 m from the target turbine location</p> <p><b>Mode:</b> Joint venture only. The small property was recently purchased by a landwater enthusiast now seeking to buy all or portions of the larger piece.</p> <p><b>Profits:</b> 6.8-year payback, 14.7% ROI on a \$3 million capital investment</p> <p><b>Flow Measurement:</b> Flows are large but no measurement station yet installed.</p>
Pipeline Diameter	inches	30	
Flow velocity	feet per second	5	
Penstock Flow	cubic feet per second	25	
Flow Rate	gallons per minute	11010	
Pipeline Length	feet	3000	
Head Loss	feet per 100 feet	0.2	
Total Head loss	feet	6	
Effective head	feet	414	
Turbine efficiency	percentage	85%	
Hydroelectric Potential	kilowatts	697	
Annual operation period	months	8	
Sell rate	\$/ kilowatt hour	\$0.11	
Annual Revenues	dollars	\$441,855	
Capital Cost	dollars	\$3,000,000	
Payback period	years	6.8	
Return on Investment	percentage	14.7%	

**Challenges**

- 1) Must have both properties to make a system; one property alone is not viable
- 2) One property for sale; the other seeking to acquire, must wait for dust to settle
- 3) Environmentally sensitive along river channel, extensive forest.

**Advantages**

- 1) Excellent intake access and location
- 2) Good turbine access and location.
- 3) Easy access all the way to the property

