

## Investment Opportunity

# Valbona Hydropower Plant

### ***Executive Summary***

Gener 2 Sh.p.k., a limited liability company registered in Albania, is approaching a limited number of potential investors interested in investing in the fast growing hydro energy sector in the country.

Gener 2 Sh.p.k. holds the concession license to build, own, operate, and transfer the Valbona Hydropower Plant, located in the eastern part of Albania. The project is made up of several small hydropower plants in a cascade formation and it is pending a review for further optimization. Summary details of the project are listed below:

<b>Valbona HPP</b>	
<b>Installed Power</b>	51 MW
<b>Calculated Energy</b>	246,000,000 kWh
<b>Concession Period</b>	35 years
<b>Concession fee</b>	2%
<b>License(s)</b>	Gener 2 has officially been declared the winner of the tender procedure.
<b>Investment Cost</b>	~ 100,000,000 €
<b>Current status</b>	Pending the concession contract approval by the Council of Ministers.

## ***Financing Structure***

Gener 2 is actively seeking potential financial partners to invest in the project.

Details of the financing structure are subject to further discussions.

## ***Contact Details***

Interested parties may contact Gener 2 directly at the address listed below.

### ***Gener 2 Sh.p.k.***

Gener 2 Sh.p.k. is a registered limited liability company in Albania.

ABA Business Center  
Rr. Papa Gjon Pali II  
Kati 7, Kodi Postal 1010  
Tirana, Albania

Tel: +355 4 224 8313  
Fax: +355 4 224 8312  
Email: [gener@gener2.al](mailto:gener@gener2.al)

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# **STUDY hydrological H/C Valbona**

**Author**

**Prof.Doc. Bashkim Spahiu**

Tirana, July 2007



## **STUDY hydrological H / C Valbona 1**

### **Entry**

River water is located in Valbona slope of the upper right of Drin River originates in the Mountains parts of the Albania Alps. He gathers the waters of rainfall, which involves quantity of rain approximately  $mm$  in 2700 -3000 year. Also its basin is fed by underground rivers that in this area are abundant.

Valbona River and Dragobia axis of the basin has an area watershed of 112 km<sup>2</sup> and the average altitude of 1600 m while the axis of the basin Deletë an area of 622 km<sup>2</sup> and the average altitude of 1396 m. Axis of the intake Lumit Valbona watershed has a area of 64.8 km<sup>2</sup>.

From meteorological point of view this area is characterized by a high water collection. Rain waters falling, and those after the snowing time in spring, Infiltrate in the basin and its surfacing in the form of large water sources. These sources, as well join the superficial waters of the rain in Valbona form part of the total flows into Fierza Grey

In the frame of a general Study for Valbona HP 1 these are some hydrological elements:

#### ***1) Climate***

#### ***2) Water Leak Annual***

***2.1 Water leak with from secured different sources***

***2.2 Yearly distribution of the Annual Water flow***



### 2.3 Steadily of the Daily Water flow

#### 3) Maximal Water flows

#### 4) The Secured water flow o and water quality.

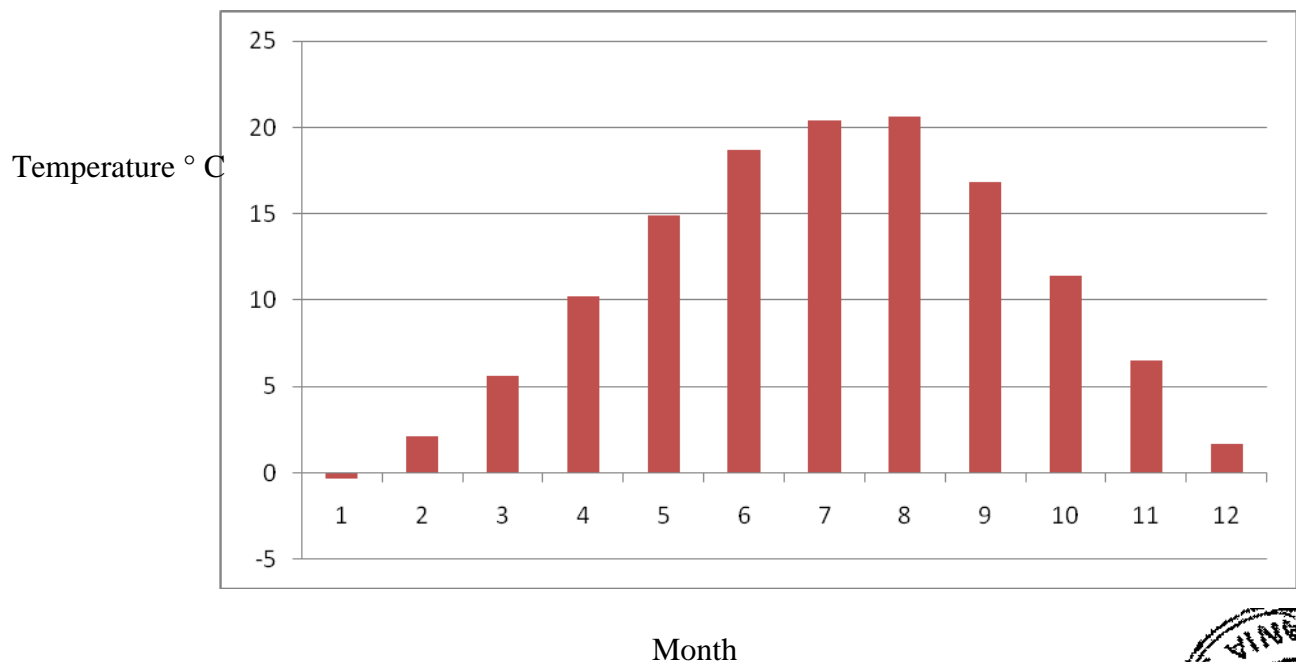
The Study is based on the hydrological data from Valbona river in Dragobia Place within a survey periode 1959-2000. As you noted from the study period is 41 years, enough so to derive accurate hydrological parameters for the design of HP in this river.

#### A. Climacteric Cionditions

River watershed area in Valbona includes the northern mountainous Mediterranean climate which is characterized of cold and wet winter and hot summers.

This area is among the colder parts of Albania . Absolute minimum temperatures observed varies from -10 to -12 ° C. In coldest winters the temperatures falls to -15 to -18 C . In rare cases it goes up to -25 °

**Table 1**



<b>Month</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Year</b>
<b>Temperature</b> ° C	<b>-0.3</b>	<b>2.1</b>	<b>5.6</b>	<b>10.2</b>	<b>14.9</b>	<b>18.7</b>	<b>20.4</b>	<b>20.6</b>	<b>16.8</b>	<b>11.4</b>	<b>6.5</b>	<b>1.7</b>	<b>10.7</b>

*Tab 2. The average monthly and annual temperatures. Valbona Station*

Table 1 graphically shows the yearly temperature progress divided in months in Valbona Station.

From this figure it is shown that that the coldest months is January and the hottest month is July.

In the central part of the area climate, where this river is located the total rainfall exceeds 2000mm ..

Number of days with larger rainfall is over 100 days. Maximal Thickness of snow reach 2-3 m.

The number of days with snow around is over 100 days.

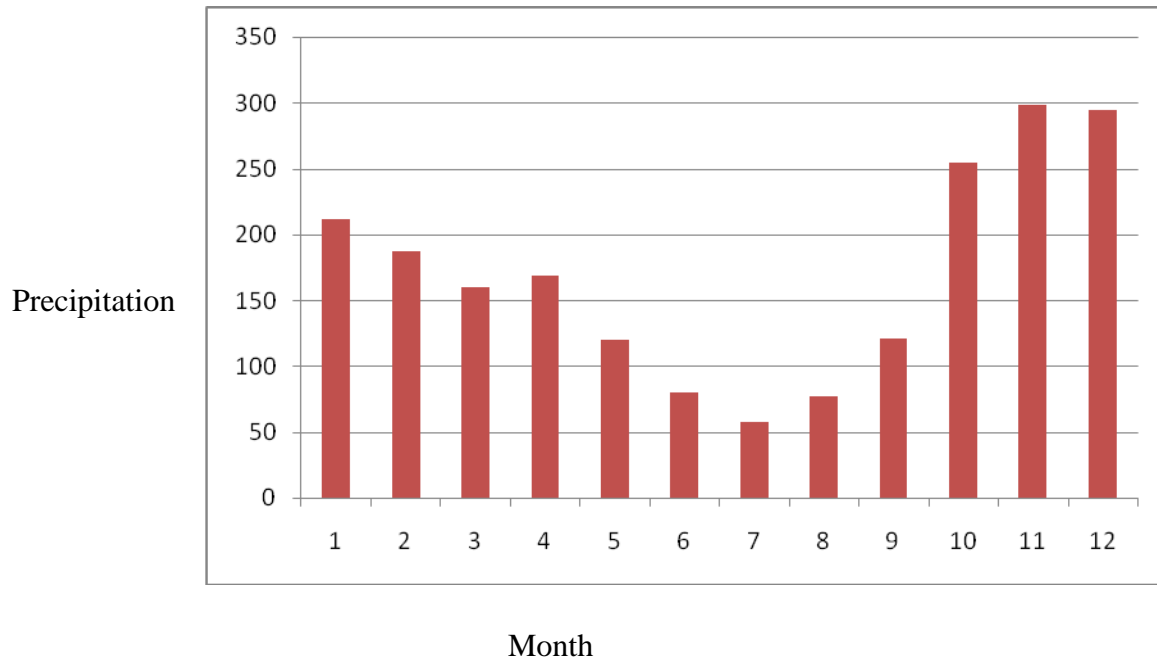
To characterize the rainfall regime in this area are given in

*Table 2 average rainfall of etore mnjore Dragobis new station.*

<b>Month</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>Year</b>
<b>Precipitation</b>	<b>212</b>	<b>187</b>	<b>160</b>	<b>169</b>	<b>120</b>	<b>80</b>	<b>58</b>	<b>77</b>	<b>121</b>	<b>254</b>	<b>298</b>	<b>294</b>	<b>2030</b>

From Table 2 it seems that the precipitation regime is mainly Mediterranean, with small precipitation in the summer months (July, August) and the largest in the month of November.

*In Fig. 2 is shown during months the quantity of rainfall distribution*



The highest rainfall within 24 hours in this area reach the value of over 250 mm/24 hours.

## **2. Water Leak**

As stated above within the period of 42 years the hydrological observations and measurements in the Valbona has a sufficient number of terms to accurately calculate the hydrological parameters for the design of H P Valbona 1.

### **2.1 Annual Water Leak**

The main parameter of the annual water leak is composed from a 'average flow' or the water fall ration compared with the average amount of water flowing on average in this axis.

By performing relevant calculation compared with the observation on spot at Valbona river shows that the average volume flow rate are respectively.

$$Q_{mes} = 9.3 \text{ m}^3/\text{s} \quad \text{dhe} \quad V_{mes} = 292.95 \times 10^6$$

This flow corresponds to a module of an annual water fall of 53.4 l/s and an annual index of  $\delta = 0.83$ , which values are higher but acceptable in such an area where groundwater is abundant.

Based on these parameters calculated for Valbona River were calculated hydrological parameters in the axis of the intake surface  $A = 64.8$ . Thus, by accepting the same module the water flow in Valbona the long term annual average for the axis of the intake is:

$$Q_{mes} = 3.47 \text{ m}^3/\text{s}$$

The application of the measuring module in Valbona is correct on the hydrologic prospect because the axis of the water intake is located in the same trunk river and their respective small lakes has a similar physically and geographical conditions (climatic conditions, geology, vegetation, relief etc).

## 2.2 Distribution during the year of the annual Water fall

An important parameter is also the annual flow distribution, which is determined by the average monthly flow and virtually gives the river water regime

By performing the relevant calculations the average monthly flow is presented in table 1:

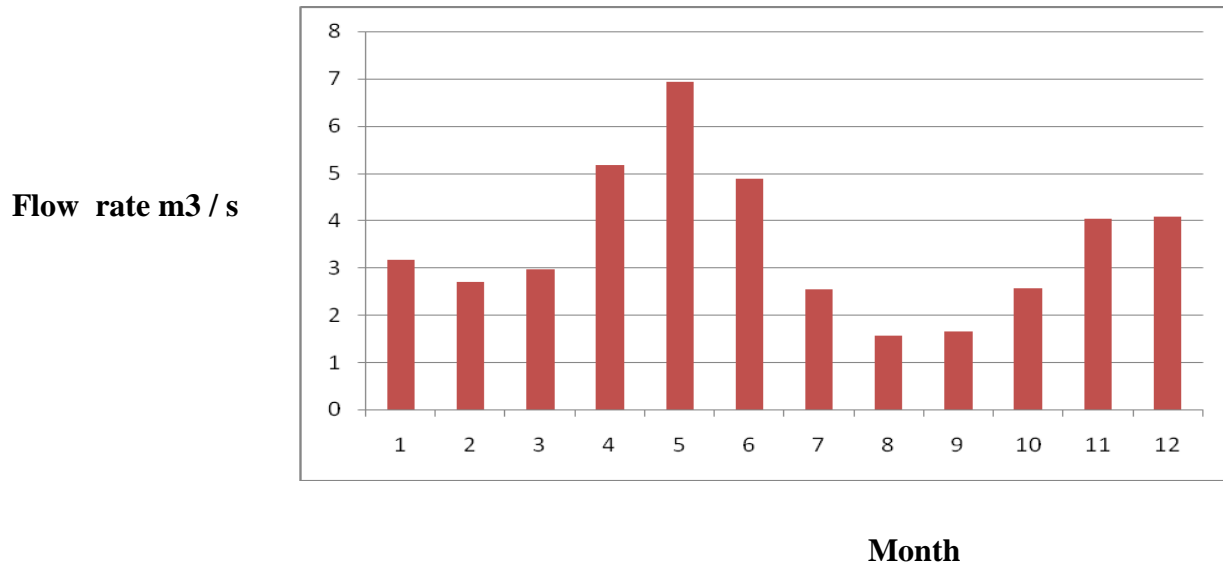
Tab.3 Monthly average flow. Axis of the water intake

Month	1	2	3	4	5	6	7	8	9	10	11	12	Year
Flow rate m <sup>3</sup> / s	3.16	2.69	2.96	5.18	6.92	4.88	2.55	1.56	1.65	2.56	4.03	4.07	3.47

Figure 3 contains annual is presented the annual distribution of the water fall. From Table 3 and Figure 3 seems that the largest flows are observed in April and May as a result of melting snow and Small flows are in July, August when the rains are almost 0 and the underground water is limited.



Graf 3 The annual distribution within water intake



### 2.3 Annual inflows with different uncertainties

Annual flows varies from year to year, mainly depending on the amount of annual precipitation falling in the area under study. They have higher ratings in a group of wet years and small rating in dry years

The value of the variation coefficient  $CV = 0.22$  shows that the annual flow in this river has a relatively small annual fluctuations therefore it consist higher from one year to another.

Among the most important hydrological parameters for the design of an H / P are the annual flows with uncertainty. Their calculation was performed using normal variable and probabilities, which was built up from the Annual series measured in Valbona place with a period of observations from 1959 to 2000.

Calculations showed that the statistical parameters annual flows are

- **Average flow:**  $3.47 \text{ Qmes} = m3 / s, G = 0.76 m3 / s$
- **Coefficient of variation:**  $CV = 0.22$ .

The series of average annual waterfall in Valbona were subject of a statistic evaluation by applying the normal probability and as a result we found in arithmetic the Certainty Coefficient, shown, in Graf 4.

To assess the annual flow in the axis of the intake annual flow was estimated initially 50% by using the same module in Valbona Place. Then, to calculate the annual flow with other certainty was kept the same coefficient:

Q50% with flow and probably 50% QP% flow probably

$p = 50,75,90,95 \text{ o / . etc.}$

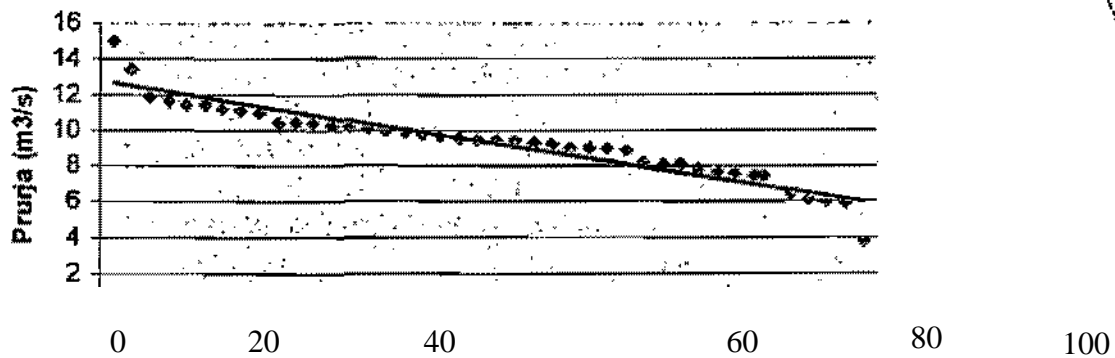
Annual flows with different Uncertainties for the axis of the intake are given in Table 4.

**Tab.4 Annual flows with different Uncertainties for the axis of the intake**

Siguria ne %	50	75	90	95
Flow rate m <sup>3</sup> / s	3.48	2.81	2.43	2.31

Thus, the annual inflow with a probably 75%,  $Q_p = 2.81 \text{ m}^3 / \text{s}$ , is the annual flow rate within an average period of 100 years exceeds in 75 years

Fig. 4 The curve of annual flow safety in Valbona (1959-2000)



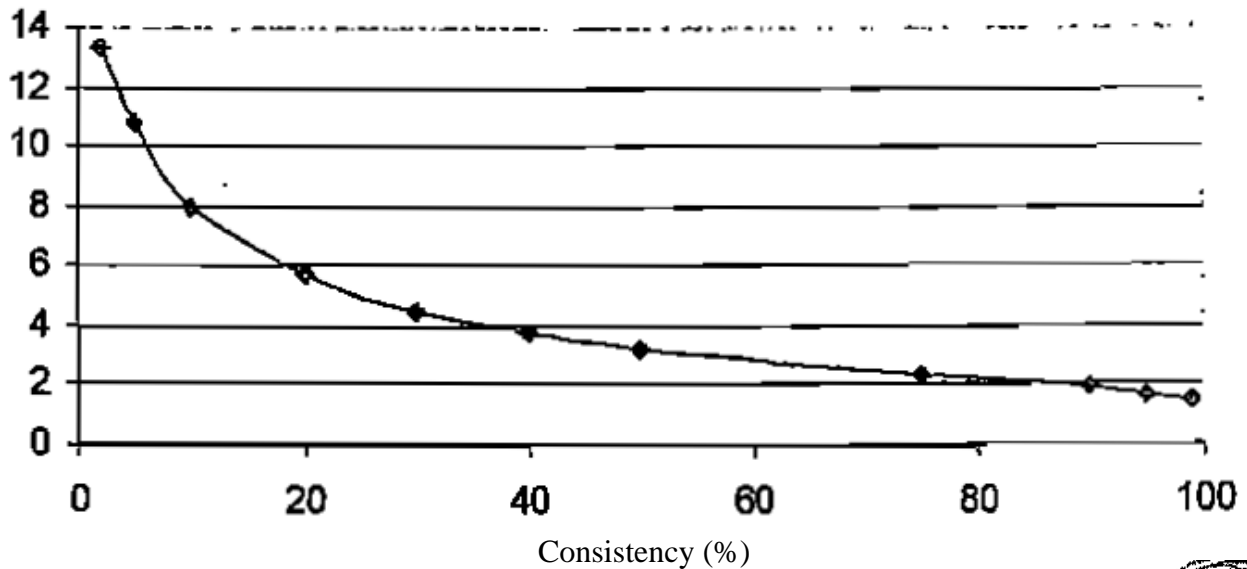
## 2.4 Stability of daily Water flow

An another important parameter for the design of a HP is the curve of daily flow sustainability. In accordance with the method used for this parameter this Curve was conducted by using daily flow for the actual daily average and for this it was chosen as such the Year 1967.

In Figure 6 appears exactly the Sustain Curve meantime in the Table 5 is shown the daily water flow with Different Certainties .

Sustainability in %	50	75	90	95
Water fall in m3/s	3.22	230	1.90	117

Fig.5 Curves of sustainability. Axis of the water intake



### 3. Maximum flows

For calculating the maximum flow using the Different Certainties was used the quantity of water in Valbona, which includes a 42-year period examination. For this purpose they use the General Log of Probability.

Besides the statistical method was applied also the GRADEX method which serves as a second method that enables the comparison and analysis of results founded.

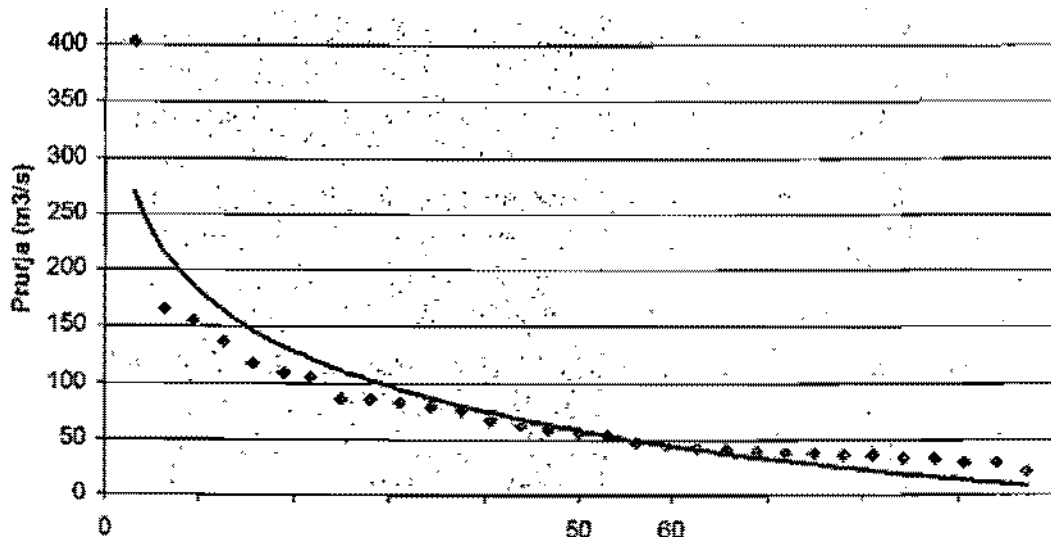


### 3.1 Statistical Method

- This method of statistical analysis consists of a Statistic Analysis of annual maximum water falls and the use of respective probabilities distribution.

For our case we applied different scenarios and the found that the most accurate one was that of logarithmic (Fig. 7).

In the Tab nr 6 it shows the maximal curve rainfall with Different Certainties in Valbona



Tab, The maximal curve rainfall with Different Certainties . Axis of the water intake. Statistical methods

Sustainability in %	50	75	90	95
Water fall in m3/s	3.22	2.30	1.90	1.7



### 3.2Metoda GRADEX

For calculating the Curve of the probabilities there is a rmethod developed in France that is known to as GRADEX.

The method requires only a few years of data on plots and series of observations on rainfall in the basin, which includes full survey years

GRADEX method is elaborated and developed for the conditions of our country (Hidmet Studies No. 9). According to this method is developed a relatively simple method for flows with rare repetition in our country's watersheds.

Calculation of rainfall with rare repetition is performed as per below formula:

$$Q_p = (Q_m + GU)K$$

Qp- bearer high ( climacteric ) p,

G- degree ( level ).

Q- bearer average,

K-coefficient full U = [-ln (-ln F)] -2.25

F-Iteration ( repetition )

Results of this method are given in tab.7.

**Tab. 7 Rainfall with Different Certainties .**

Sigura %	1	2
Flow rate m <sup>3</sup> / s	128	106

By analyzing the results of the two methods we can observe that there is no major change in Water flow 1 and 2% .

Finally, as water flow will be accepted those given in the Table 6.

#### 4. The flow of solids and water quality

As known , the flow of solids composed of suspended solid matter ,that comes together with water flow, mainly during high flows.

Valbona River , like all rivers of the Alps, characterized by a sober groundwater . Only during the wet it can take values from 250 to 300 gr/m<sup>3</sup>.

During the high flows in mountain rivers as Valbona, terminal flow consists mainly of gravel with considerable diameter that varies in wide limits ranging from 20 to 50 mm and often exceeds 100 mm. Due to large and significant water flows the stones reach a diameter over 300 to 500 mm and more.

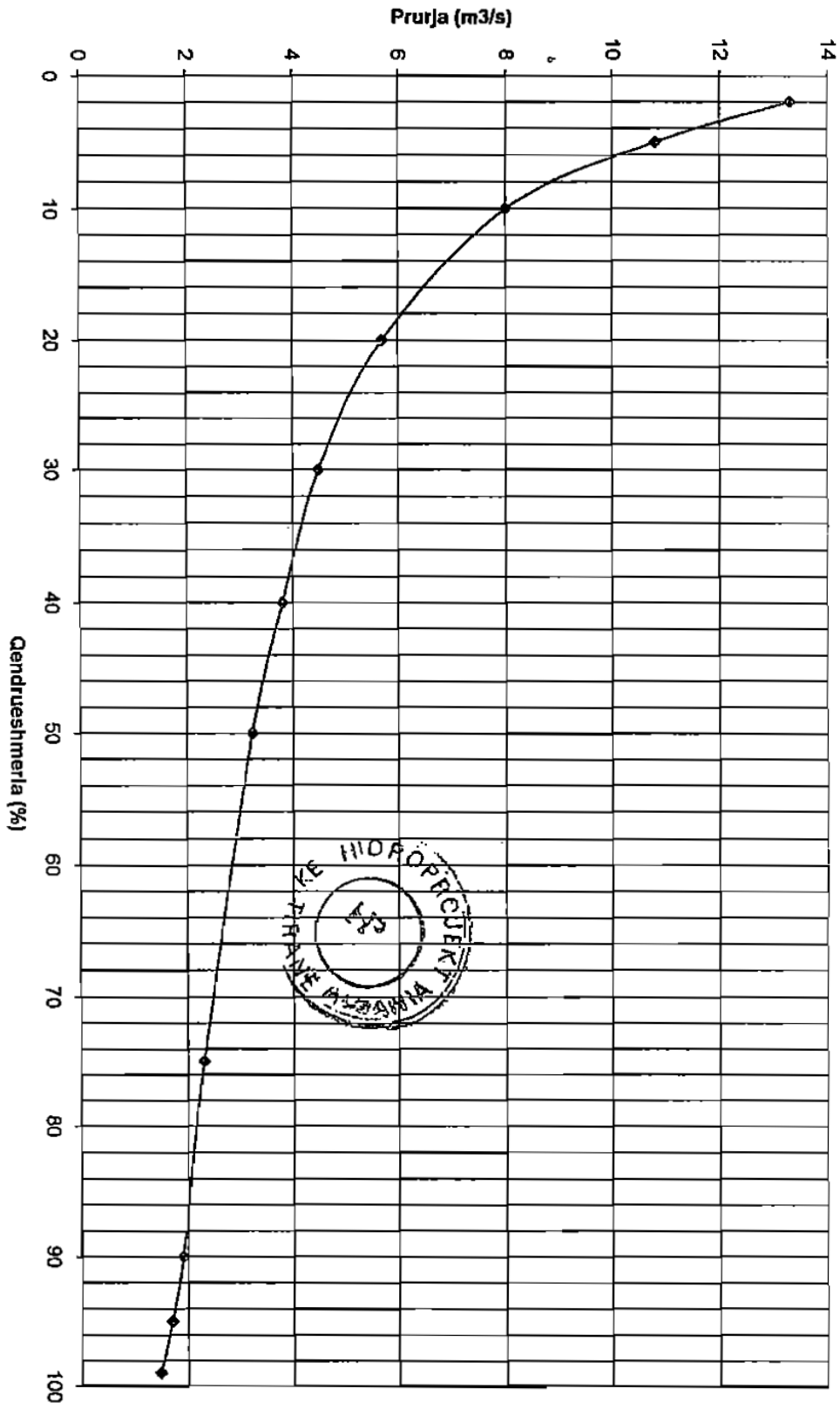


Concerning water quality these are quite clean.

From a Hydro chemical point of view they are considered as waters with low mineralization that has values from 200 to 250 mg / l.

The main ions are Bicarbonates and present more than 50 % of the total ions that the river possess. The abundant presence of calcium ions shows the presence of limestone formations. After these ions come sulfate ions.

In these waters are not observed or phosphate or nitrates ions that is a characteristic of clean water and no pollution.



## ***Project Profile for the International Investment Conference***

### **PROJECT PROFILE**

#### **SECTION I: General Information**

1. **Project Title** - Tplani Hec/Valbona
2. **Short Project Description** - Construction and energy production
3. **Project Sector** - Hydropower Valbona
4. **Foreign collaboration requested** (financing, technical support, partnerships, etc.) -There is no foreign funding and collaborators
5. **Total project investment (US Dollars)** - \$ 5 million
6. **Foreign contribution requested (US Dollars)** - 1.5 million \$
7. **Project Manager** - Flamur Bucpapaj
8. **Company responsible for the project** - Tplani sh.p.k
9. **Contact details of company and project manager**
  - Headquarter address - Add Aleksander Moisiu Ish Kinostudio Shqiperia e Re
  - Telephone number - +355 2 455 544
  - Mobile number - +355 67 27 444 21
  - PO BOX - no
  - Email address - [tplani\\_shpk@hotmail.com](mailto:tplani_shpk@hotmail.com)
  - Fax number - no



**10. National office in Mali contact details**

- Headquarter address - Add Aleksander Moisiu Ish Kinostudio Shqiperia e Re
- Telephone number - +355 2 455 544
- Mobile number - +355 67 27 444 21
- PO BOX - no
- Email address - [tplani\\_shpk@hotmail.com](mailto:tplani_shpk@hotmail.com)
- Fax number - no

**SECTION II: Project Profile**

**1. Information on the company proposing the project**

**1. Company Management**

- Name - Flamur Bucpapaj
- Position - Administrator & President

**1.1 Contact person**

- Name - Flamur Bucpapaj
- Position - Administrator & President

**1.2 Background and history**

- Year of establishment - 31.10.2005
- Form of ownership - 100 % capital Flamur BUCPAPAJ

During years the company has perform a lot of Construction Project such as:

- Reconstruction, Building No. 16 on campus.
- Electric cubicle Dajti the municipality.
- Q.Mali Treadmill Maintenance - Q.Shllak (3-years)
- Construction of three Water Supply Dajti the municipality.
- Paving, Paving and garden Mother Theresa Hospital (University Hospital Center).
- the working of the Formalizing tub Agricultural University of Tirana.
- Paving road Kashar municipality.
- Road, Vaqarr municipality.
- Reconstruction of the Institute of Cultural Monuments (IMK).
- Reconstruction of the High Security Unit, Tufina.
- Reconstruction of Secondary School Total Football "Loro Borici".
- Paving Road Paving "Brare" in the Commune of Dajti
- Reconstruction of the Scene of Opera and Ballet Theatre (OBT)
- National Radio Studio Construction 93.4 Mhz Kinostudio
- Restoration of road "Kol Idromene" Shkoder
- Restoration of the Middle Bridge Shkoder
- The Church Retaurim "Shem Mhill" Voskopoje Korce
- Restoration of Tyrbes that "Dervis Luzha" Luzha Donegal
- Reconstruction of road + Sukth sewerage Sanitation in municipalities
- Paving the way to the Rogozhin (Zhur Tail)
- Making the helicopter runway at TUHC + treguse timetables
- School Siege Kavaje
- Restoration of the House painter Vangjush Mio (Korce)
- Restoration of the Clock Tower In the center of Tirana.
- Restoration of Apollonia
- Restoration Bazaar Gjirokaster
- Restoration Shkodra Prefecture

- Restoration House John Mark Shkoder
  - No. 1 Kamez neighborhood Flower 's garden (inside buildings)
  - Restoration Flats Kokobobo Gjirokaster
  - Restoration of the Monastery of St. Nicholas Mesopotamia Sarande
- Current affiliates -

### 1.3 Main line of business

Group /parent company - no

Promoters' company - Flamur BUCPAPAJ

### 1.4 Description of current business -

- Reconstruction, Building No. 16 on campus.
- Electric cubicle Dajti the municipality.
- Q.Mali Treadmill Maintenance - Q.Shllak (3-years)
- Construction of three Water Supply Dajti the municipality.
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- No. 1 Kamez neighborhood Flower 's garden (inside buildings)
- Restoration Flats Kokobobo Gjirokaster
- Restoration of the Monastery of St. Nicholas Mesopotamia Sarande

#### 1.4.1 **Description of the plant or service facilities**

Excavators 1 m2 piece 2

Matrapik piece diggers + 1

Truck 20 tonne block of 4

2 piece 5 ton pickups

3 piece 10 tonne truck

AT Motokompresor 6 pieces 2

Concrete 25 pcs 4

KLW generator 4 piece 2

1.4.2 **Physical status of equipment**

Machines are in good working condition, are in the works currently underway in HEC Valbona where they are working on opening the canal and the pit of extinction, furthermore there was built a machine shop for machinery that every problem that he happened to be elected in instead.

1.4.3 Most important factors determining company's strategic position and activities -

**TPLANY COMPANY**

**PREDICT OF MONEY FLOW**

000/\$

DESIGNATE	TIME OF COUNSTRUCTION WORK IN H/C	TIME OF POWER PRODUCTION IN H/C				
		YEAR1	YEAR2	YEAR3	YEAR4	YEAR5
<b>PARAT NË FILLIM</b>	<b>3,040</b>	<b>3,040</b>	<b>33,265</b>	<b>27,412</b>	<b>28,136</b>	<b>37,208</b>
Company capital	61,254		15,719	17,627	21,051	24,639
Credit	150,000					
Other incoming	62,952	59,552	59,552	59,552	59,552	59,552
<b>Total money</b>	<b>274,206</b>	<b>59,552</b>	<b>75,271</b>	<b>77,179</b>	<b>80,603</b>	<b>84,191</b>
<b>Money flow</b>						
Construction	129,260					
Unite and equipment	141,906					
Transport equipment	-					
Other						

Interest rate	-	21,693	19,207	13,784	8,361	2,938
Principali	-		54,233	54,233	54,233	54,233
Producing expenses	-	7,634	7,684	8,438	8,937	10,203
Store	-					
Expenses befoure starting	3,040					
Profit TAX	-	766	1,045	1,546	2,070	2,516
<b>Total expences</b>	<b>274,206</b>	<b>29,327</b>	<b>81,124</b>	<b>76,455</b>	<b>71,531</b>	<b>67,374</b>
<b>Money on the end</b>	<b>3,040</b>	<b>33,265</b>	<b>27,412</b>	<b>28,136</b>	<b>37,208</b>	<b>54,025</b>

Our company has activities in the field of construction and reconstruction of civil works

### 1.5 Current capacities and employment -

In the COMPANY there are 20 specialist. On a project bases the company is also hiring part time staff

#### 1.5.1 Current products / services of the company -

The Company is currently offering this services:

Construction,

restorations artwork.

reconstructions and any c onstruction work

1.6 **Significant non-core activities**

Other businesses that we are in the : Radio, TV Cable Line@ internet, newspapers, publishing houses etc.

1.7 **Employees** - Currently 20 employees to provide

1.8 **Seasonal / part time employment** - no

1.9 **Market and sales**

Activities that society Tpalni Ltd mainly deals are public tenders in the field of reconstruction, roads, buildings, artwork restoration churches, mosques etc.

1.9.1 **Annual turnover for the last three years (in thousand US\$)**

Turnover of the pervious years is given below:

Year 2011 - 700000 \$

Year 2010 - 500000 \$

Year 2009 - 300000 \$

\* available balance sheets if required

1.9.2 **Current markets** -

Currently in Albania there are a lot of HP concessions given to individuals to produce Power that will be for inernal consumption in Albanian but also for export as well

1.9.3 **Competitors** -

Currently the this area there are no HP and Valbone Margegaj will eb the only one plant to be built.

1.9.4 **Marketing instruments**

1.9.5 **Export markets**

Exporti will be between State company KESH (Albanian Corporation electro energy and international market after being built and the interconnection lines with Kosovo.

1.9.6 **Special agreements affecting company's exports**

Special arrangements will be the state company KESH, as sipasi legislation in force in the Republic of Albania are all hecet that are less than 15 mega energy company will be sold directly to KESH

2. **Business references**

2.1 **Bank references**

1-st Bank reference Bank name - International Commercial International Bank

Address : Rr. Murat Toptani

Contact person : Andi Jakova Mob : +355 68 20 57 907

2.2 **Auditor** : Shkelxen Margjeka Mob : +355 66 20 70 654



### 2.3 **Main trading partners references**

1st Trading partner Company name:

Be-Is ltd

Elkri ltd

### 2.4 **Company strengths, competitiveness and management**

Strategic points of the company are as society is able to build them from making nakanli, the square of the building construction, building, other peak that were built after the area where HECValbona is a tourist site where it can also have other business advantages but above all is the only power plant became the area

### 2.5 **Company strengths: -Financial resources**

Society has concluded concession contract with the Ministry of Economy, Trade and Energy with Rep. No. 279 and No. 88 Cole, dated 29 January 2009

Access to natural resources

Ownership rights and licenses -

The licenses for construction and restoration of more diverse

Engineers that will deal with this work are the license

Isa Hakjlaj - engineering geologist  
Christo Goga - Hydro-Project engineer  
Hasan Dermirxhiu - surveyor  
Kleanthi Mineu - Architect  
Sadri all Albanians - Hydraulic engineer

All these are the licenses besides our society, in a second stage sjallim you know the original licenses

## 2.6 **Technology management**

Main innovations - Construction of turbine for hydropower VALBONA

### **Common drivers of innovation** -

Valbona area located in northern Albania and the needs of the area for some of the largest are for electricity which also makes a great favor to our company for sale of electricity in the country where the settlement is both immediate and

### **Cooperation with universities / R&D institutions**

**Tplani Company Ltd has taken all permits for the operation and construction of hydropower Valbona as follow:**

Environmental Permits - No. 468 prot, dated 28.08.2009  
Certificate from the real estate office - dated 11.03.2010  
Approval for the exercise of the activity - No. 516/1 Prot, dated 25.02.2010  
Project Approval - No 1919/17Prot, dated 08.05.2009  
River basin council permission - Prot No. 241, dated 27.07.2007  
National Council of archeology - Prot No. 75, dated 05.05.2010  
Attestation Municipality Margegaj - 1073 Prot No. dated 16.10.2009

All this permits are available upon request

Internal R&D

## Part II -Information on proposed project

1 Purpose of the project = **Build a Hydro Power in Valbona**

1.1 Rationale behind the project

- Access to resources

100 %

- Access to markets or market niche

According to transmission lines that are now going directly operated company spun KESH

- Capability, competence

Executive staff will be made by engineers that are mentioned above, application engineer, arkitet etc.

The HP Valbona is because it is the only one in that area and there is competition

- Favorable location

Is unique in that area has not konkurten CEZ distribution but only after he supplied by the state company's own KESH or HEC

VALBONA

1.2 Projected capacities and sales

## TPLANI COMPANY

### PROFIT FROM SALE IN FIRST YEAR

MONTH	PROFIT		
	PRODUCT	PRICE IN KW	VALUE IN \$
JANUARY	919,020	6	5,514,120
FEFRUER	919,020	6	5,514,120
MARCH	919,020	6	5,514,120
APRIL	919,020	6	5,514,120
MAJ	919,020	6	5,514,120
JUN	919,020	6	5,514,120
JUL	919,020	6	5,514,120
AUGUST	919,020	6	5,514,120
SEPTEMBER	919,020	6	5,514,120
OCTOBER	919,020	6	5,514,120
NOVEMBER	919,020	6	5,514,120
DECEMBER	919,020	6	5,514,120
<b>TOTAL</b>	<b>11,028,240</b>		<b>66,169,440</b>

### PROFIT FROM SALE IN SECOND YEAR

MONTH	PROFIT		
	PRODUCT	PRICE IN KW	VALUE IN \$
JANUARY	919,020	6	5,514,120
FEVRUER	919,020	6	5,514,120
MARCH	919,020	6	5,514,120
APRIL	919,020	6	5,514,120
MAJ	919,020	6	5,514,120
JUN	919,020	6	5,514,120
JUL	919,020	6	5,514,120

AUGUST	919,020	6	5,514,120
SEPTEMBER	919,020	6	5,514,120
OCTOBER	919,020	6	5,514,120
NOVEMBER	919,020	6	5,514,120
DECEMBER	919,020	6	5,514,120
<b>TOTAL</b>	<b>11,028,240</b>		<b>66,169,440</b>

**PROFIT FROM SALE IN THIRD YEAR**

MONTH	PROFIT		
	PRODUCT	PRICE IN KW	VALUE IN \$
JANUARY	919,020	6	5,514,120
FEVRUER	919,020	6	5,514,120
MARCH	919,020	6	5,514,120
APRIL	919,020	6	5,514,120
MAJ	919,020	6	5,514,120
JUN	919,020	6	5,514,120
JUL	919,020	6	5,514,120
AUGUST	919,020	6	5,514,120
SEPTEMBER	919,020	6	5,514,120
OCTOBER	919,020	6	5,514,120
NOVEMBER	919,020	6	5,514,120
DECEMBER	919,020	6	5,514,120
<b>TOTAL</b>	<b>11,028,240</b>		<b>66,169,440</b>

1.3 Planned products and services

**PROFIT FROM POWER SALE IN YEARS**

<b>YEARS</b>	<b>PRODUCT IN KW/H</b>	<b>PRICE IN KWH</b>	<b>VALUE IN \$</b>
<b>FIRST YEAR</b>	11,028,240	6	66,169,440
<b>SECOND YEAR</b>	11,028,240	6	66,169,440
<b>THIRD YEAR</b>	11,028,240	6	66,169,440
<b>FORTH YEAR</b>	11,028,240	6	66,169,440
<b>FIFTH YEAR</b>	11,028,240	6	66,169,440
<b>TOTAL</b>	<b>55,141,200</b>		<b>330,847,200</b>

1.5 Potential export markets

Due to the transition line capacities the HP Valbona will have 30% of Total capacities for Export

1.5 Form of collaboration sought

Joint-venture (equity)

Loan -Management expertise

Technical expertise

Marketing expertise

Market access  
 Sub-contracting  
 Buy-back arrangement  
 Technology transfer  
 Joint R&D

**Equipment purchase**

Other

1.6 Estimated total investment costs (in thousand US Dollar)

Investment field	entire cost	BUSINES SOURCE	PERCENTAGE OF OUNER CAPITAL			
		CREDIT	COMPANY CAPITAL			
<b>A</b>		<b>LONG TERM INVESTMENT</b>	<i>In 000/\$</i>			
	<b>I</b>	<b>CIVIL WORK</b>				
	1	UPPER DAM WORK	10,793	6,476	4,317	0.40
	2	DECANTER	12,695	7,617	4,443	0.35
	3	STEEL PIPE FIXING	50,680	30,408	17,738	0.35
	4	PREASURE RESERVIOR	20,760	12,456	7,266	0.35
	5	TURBINE PIPE	8,930	5,358	3,126	0.35
	6	HYDRO-POWER BUILDING	13,250	7,950	4,638	0.35
	7	POWER	12,152			

		TRANSMITTED LINE		7,291	4,253	0.35
		<b>SUM1</b>	<b>129,260</b>	<b>84,019</b>	<b>45,241</b>	0.35
	<b>II</b>	<b>EQUIPMENT</b>				
	1	CONTRIBUTION EQUIPMENT	127,274	89,092	38,182	0.30
		SUBSTATION				
	2	PLANT	14,632	10,242	4,390	0.30
		<b>SUM 2</b>	<b>141,906</b>	<b>99,334</b>	<b>42,572</b>	0.30
<b>B</b>	<b>I</b>	<b>STARTING WORK EXPENSES</b>				
	1	PROJECT IDEA	200		200	1.00
	2	DETAIL DESING	1,500		1,500	1.00
	3	COMPOSITION OF PLAN BUISNES	200		200	1.00
	4	HYDRO STUDY	120		120	1.00
	5	GEOLOGICAL STUDY	120		120	1.00
	6	AUTHORIZATION OF USING WATER	100		100	1.00
	7	OPONENCE OF PROJECT IDEA	100		100	1.00
	8	OTHER DOCUMENT	200		200	1.00
	9	SKILL WORKER TRAINING	500		500	1.00
		<b>SUM 3</b>	<b>3,040</b>		<b>3,040</b>	1.00
<b>FULL PROJECT COUST</b>	<b>274,205</b>	<b>183,353</b>	<b>90,853</b>	<b>0.33</b>		



### **1.7 Main production inputs locally available**

Matrapik piece diggers + 1  
Truck 20 ton block of 4  
2 piece 5 ton pickups  
3 piece 10 tonne truck  
AT Motokompresor 6 pieces 2  
Concrete 25 pcs 4  
KLW generator 4 piece 2

### **1.8 Location, logistics and environmental aspects**

Valbona located in the northern part of Albania is a tourist area with a magnificent view, the road leaves the town of Bajram Curri, a part of the road is paved with asphalt and the rest is in the hospitalization of the above where development will take a mountain resort. The company has got the Environment License to build up the HP in that area.

### **1.9 Location**

Given that Kosovo is only 35 klm away and transmission lines are near the power plant makes this work come into direct and not have problems for the distribution of electricity

If the project is located in a special economic zone, please elaborate