

Using the energy torrents formed after heavy rains

Boschner Richard-Adrian
Csibi Endre

Presentation of the project



- Rain water collecting in the water tank
- Mechanical work creation using the water energy
- Using the mechanical power made by the turbine the generator transform it in electricity
- After the water come out from the turbine is send into the drainage basin

- The water from the tank will be used in different mode for example:
 - irrigation
 - to make from rain water ,drinkable water
 - to clean the street

Project developing

- We know to capture water which flowing on the mountain side we need not just a water tank we need a drainage system which can make easier to supply the water tank.
- Using the drainage system we collect a part of the rain water not all , but it's enough to prevent the flood.



The system

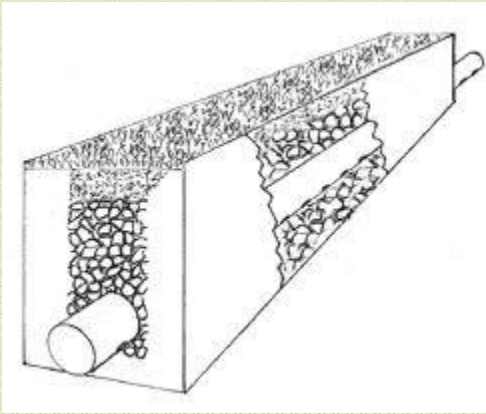


- After a visit at one power station we decide to use a Pelton turbine which need a low quantity of water , between 0.01 m³/s and 100 m³/s and water altitude from where the water will flow can be between 10 to 1800m.
- At the university in Sogdinal we saw a same system what you can see in the picture.



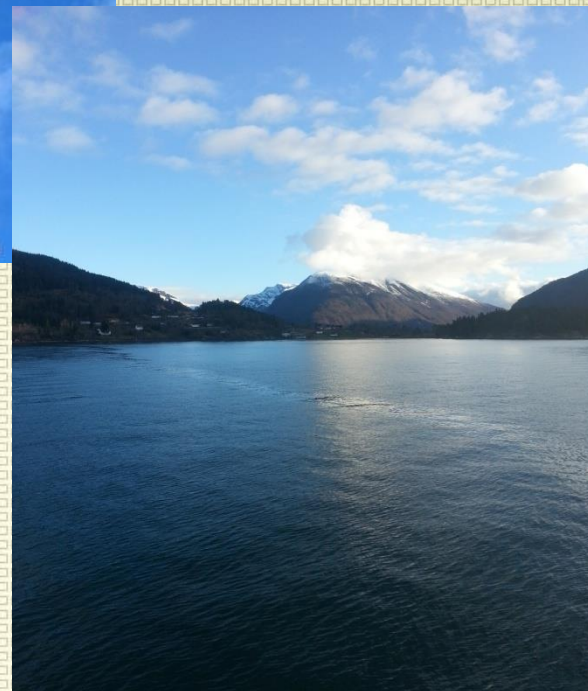
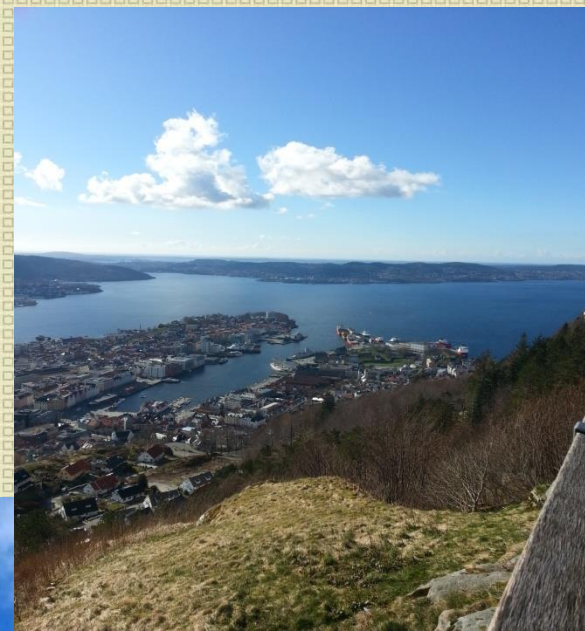
→ Turbine

→ Coupling



- After we put in ground the pipes we can put we fell the hole with ground and we put some trees to cover that place where we install the pipe.
- In this mode we remake the fauna which we destroyed when we started to make the system





Thank you for watching!!

Thank you for this
opportunity to be here!!