








**GENERAL INFORMATION:**

-  SAN JUAN DE PLAN (SPAIN)
-  NET PRESSURE DROP: 75 METERS
-  FLOW: 5 LITERS/SECOND
-  POWER: 1,5 kW
-  USE OF THE ENERGY: GRID TIED SELF-CONSUMPTION



**BACKGROUND**

San Juan de Plan is a small town located in the Pyrenees Mountains (Spain). The tank for drinking water supply receives flow from a 90mm polyethylene pipe coming from a water catchment located 100 meters higher than the tank. The pipe is 2.6km length and transport 5 liters/second.

**THE SOLUTION**

Thanks to the installation of the turbine in the pipeline, between the water catchment and the tank, the pressure excess (75 meters net) is transformed into 1.5 kW of electrical power. This energy is used 100% for self-consumption in the public lighting network where all the light bulbs has been replaced by LED, making the turbine able to supply all the municipality lights.