








### GENERAL INFORMATION:



-  LOCATION: GRANVILLE (FRANCE)
-  NET PRESSURE DROP: 1 BAR
-  FLOW: 95 LITERS/SECOND
-  POWER: 7KW
-  USE OF THE ENERGY: GRID TIED SELF-CONSUMPTION



### BACKGROUND

The water treatment plant in Granville (France) receives raw water from an upper reservoir that produces an excess pressure of 1 bar in the inlet pipe line. This extra pressure has traditionally been eliminated in a butterfly valve producing a high level of heat and noise.

### THE SOLUTION

Currently, thanks to the installation of the turbine, the inlet valve works fully open and the excess pressure of 1 bar is used by the turbine to generate 7 kW of electrical power with a flow rate of 95 liters / second. In this application, all the energy generated by the turbine is used for self-consumption in the treatment plant producing significant savings in purchasing energy from the grid.