Institutional Framework

VATTARO CANAL SAN BOVO (ITALY)





COMUNITA' COSTA PARADISO

(ITALY)



MUNICIPAL MAYOR: required the installation

ADMINISTRATION: financial coverage

TECHNICAL:

installation work

:PRESIDENT

:ADMINISTRATION

:TECHNICAL



Starting Point



Next Energy is a start-up that focuses on the research, studies and the desire to innovate inspired by its founder, the Engineer Eros Bridi.

The concept of hydro-electric pipes is at the basis of our R&D project, which places us as pioneers to new alternative energies.

We can improve the efficiency of the existing territorial water supply networks and recover the huge amount of lost energy in the small and medium water pipelines, while offering profitable solutions.



Giralog compared to hydro-electric turbine

GIRALOG®

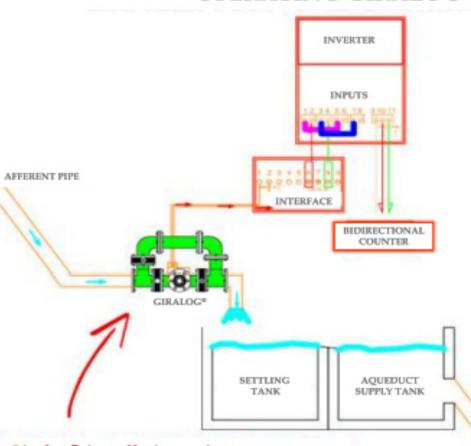
- √ Hydraulic variator
- √Utilizes pressure and flow
- ✓ Non-stop working system
- √ Reduces maintenance costs
- √ Cavitation occurs in yank
- ✓ Minimal intrusion and convenient housing in pre-existing works

HYDRO-ELECTRIC TURBINE

- Hydroelectric turbines
- Utilizes only pressure or flow
- **❖Need for closures with floating valves**
- High maintenance costs for valve replacements
- Cavication risk along the pipe
- Large spaces and building work required

Approach

OPERATING GIRALOG® DIAGRAM



THE DIAGRAM

Water flows down and enters the aqueduct settling tanks under pressure through an afferent pipe. By using kinetic energy - that is the strength of incoming water - a turbine motion is triggered inside the Giralog® system, whose rotation produces electricity. Special inverters transform and make this energy available for sale to the network or to power electric devices on site.

At this point, water runs through other pipes -via the water supply system - to people's homes.

Normally, as there is a pressure excess, a variable number of pressure reducing valves is positioned at the town entrance.

Our machinery can easly be installed before these dissipation devices.

Giralog® installation points

- · before all kind of pressure reducers
- · in any pipe flowing freely into a tank
- aligned on pipes of any diameter
- · in any pipe where there is a pressure excess



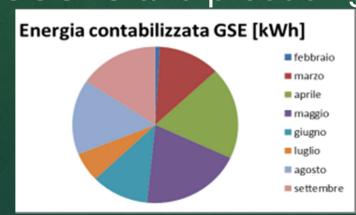




Outputs

- The recovery of the energy stored but unutilized inside any size of pipe (2",",8",e+)
- Additional efficiency is created by Giralog in the energy of the water supply system.
 This creates double savings by dramatically reducing MAINTENANCE COSTS and producing MORE ENERGY

- CERTIFICATE TUV EN ISO 12100: 2010
- PATENT EP20140000902 20140313



Anno	Mese	Energia contabilizzata GSE [kWh]
2014	febbraio	68,31
2014	marzo	897,95
2014	aprile	1410,44
2014	maggio	1460, 29
2014	giugno	835,83
2014	luglio	449,79
2014	agosto	1152,65
2014	settembre	1160,97

Lessons

Administrative procedures

Authorizations

Resolutions

Policy of municipalities

made sometimes difficult to complete the work and installation of the machine

Municipal policies encouraging the installation of greener energy systems ensuring energy savings should be developed. Direct municipal procedures in this sense would reduce the administrative burden connected with the implementation of such systems.

Follow up

2014

Storage of two drawings at CCIAA of Trento:

- regulatory body of the flows transiting in deposits or the storage tanks
- impeller inserted in hydraulic systems

2015

MICROGEN: Innovative selfpowered system that works 24 hours 24 2016

SYSTEM of micro food production for video surveillance systems and to battery device