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SiTAPE

FLOATINGPARTICLE focuses its development strategy on developing break-through technology to provide solutions to one of mankind's most urgent challenges: fresh water scarcity on a global scale. SiTAPE is our smart and integrated solution that allows for reduction water losses from the water grid while simultaneously producing clean hydroelectric energy as a by-product.

Issues Faced

Water grid losses are a common and severe worldwide reality, as is the energy intensive process involved in grid water production. These losses represent a high waste on fresh water and energy. New technology developments, such as computerized sensors, communication networks, BigData analytical systems coupled with AI, spawn new solutions to this issue.

Key Objectives

Our main goals are to reduce water losses and energy consumption while supplying advanced telemetry to control the water grid and assuring water quality standards. This results in efficient water grid production and management. As a by-product the systems installed produce clean energy that further reduces water grid management costs and improves sustainability.

Main Results

With SiTAPE, system identification and mitigation of water grid anomalies is possible while simultaneously reducing water losses, through pressure and flow control with micro-hydroturbines, monitoring water quality and production parameters and producing energy that feeds the electrical grid. The system empowers the water grid manager to make efficient real-time data-driven decisions.

FLOATINGPARTICLE
RESEARCH & DEVELOPMENT

SiTAPE
SMART WATER GRID

FLOATINGPARTICLE

FloatingParticle, I&D, Lda
Rua do Pombal 31
Cave C
9050-075 Funchal
FLOATINGPARTICLE.COM

Interreg Europe

European Union
European Regional Development Fund

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