

Public toilets with water saving

by Cécile Dekeuwer / 2018-06-18 13:40:14 / France / 9827 / FR



Year of commitment : 2017
CO2 Impact : 983,2 kgCO₂eq.

Green energies : Photovoltaic solar
Digital services : Water, Waste
Water cycle : Used water recycling
Circular economy and waste management : Eco-Design, Reuse, Preservation of natural heritage, Save of ressources, Organic recycling
Biodiversity & Ecosystems : / Green roof, Environment education /



20 000 €

Builder

DM Industrie

Manager / Dealer

Water-éCoquette

GENERAL INFORMATION

A public flushing system with integrated wastewater recycling system for an ecological, efficient and reusable use

Progress Status

Delivered

Data Reliability

Self-declared

Funding Type

Private

Website Enterprise / Infrastructure

<http://en.water-ecoquette.com/>

Sustainable Development

Attractiveness :

Ecosourced materials, innovative design, attractive colors

Well Being :

Aroma diffuser, ancillary services like screen above the urinals.

Social Cohesion :

As part of the sanitary maintenance, we want to recruit long-term unemployed to promote social and professional reintegration.

Preservation / Environmental Improvement :

Very low GHG emissions

Resilience :

The use of maritime containers very resistant allows us not to suffer the pangs related to human degradation outside, and to withstand the sometimes harsh weather conditions in some countries (snow, wind, rain ...)

Responsible use of resources :

The water from the hunts is recycled on site and reinjected into the circuit, so there is no waste or waste of water.

Testimony / Feedback

Toilets that recycle water

A toilet that can completely recycle urine through a closed flushing circuit is the amazing concept that Wéco's French company presented at the XIXth African Water Association's congress. The idea is to offer an alternative to conventional toilets or dry toilets or autonomous models working with polluting chemicals. Those imagined by WéCo do not consume water: on the contrary, they produce some! How? When the flush is flushed, the solid part is directed to a septic tank for biological pretreatment. The liquids undergo electrolysis producing chlorinated derivatives that will kill the germs. This produces water ready for the next flush. And the surplus is reusable for other applications like watering. The first public toilets of this type are tested in Saint Etienne and Ivry-Sur-Seine. Commercialization expected within a year.

Article published in the n ° 855 May 2018 of Sciences & Avenir p.28



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Governance

Water-éCoquette

Holder Type : Private Company

DM Industrie

Builder Type : Construction Industry

Water-éCoquette

Manager / Dealer Type : Private

Partnership between two private companies



Sustainable Solutions

On-site wastewater treatment system

Description :

On the technical level, WéCo technology allows:

- The autonomy in flush toilets toilet in closed circuit,
- Obtaining a water quality after treatment corresponding to the regulatory requirements,
- The production, from the flushing and excrement mixture, of a surplus of treated reusable water for various uses (especially the automatic cleaning of the hands and the toilet cabin), and the complete autonomy of the system in energy .

The medium-term objectives are therefore to develop waste treatment technologies - excrement, on the one hand, and water recycling, to ensure operational efficiency of our treatment units, on the other hand, and consequently make the technology reliable and industrializable. All the on-site black water treatment system is automated. This automation aims to manage several actions through sensors and real-time monitoring.

CO2 Impact : 549,20

- Energy/climate :
- Circular economy
- Infrastructure
- Water management
- Citizen-awareness
- Climate adaptation

Company (es) Website :

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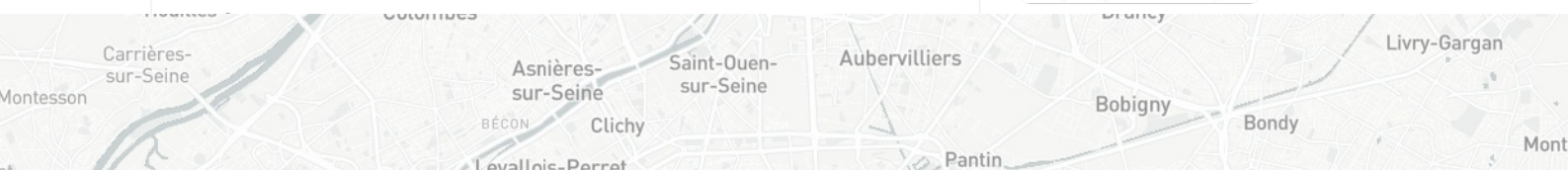


Contest

Reasons for participating in the competition(s)

- Économie d'eau: notre système fonctionne en circuit fermé
- Economie en termes de travaux d'installation: pas de raccordement aux systèmes de drainage urbains, coûteux et dommageables pour l'environnement (indirectement: nuisances sonores et de pollution visuelle, aérienne)
- Economie d'énergie: notre système peut fonctionner en autonomie électrique et donc être totalement indépendant des réseaux urbains (eau, électricité, évacuation)

Building candidate in the category





Grand Prix Infrastructure Durable

