

Monte-Carlo, Tuesday, October 6, 2020

Press release

Recycling grey waters of the Jean Bouin tennis courts, arranged by the French Tennis Federation for the 2020 Roland Garros Championship.

The company FGWRS is a proud service provider for "GL EVENTS LIVE SPORTS & ENTERTAINMENT" by setting up its grey water recycling system at the core of the Jean Bouin training facility from the September 20th to October 10, 2020.

Since Sept. 20th, every single player showering in a locker room of the Jean Bouin training facility is engaging with water resource preservation. The used water is indeed recycled thanks to the technology developed by FGWRS and is currently replacing the drinkable water that is normally used for flushing in the locker rooms toilets.

Thanks to "GL EVENTS LIVE SPORTS & ENTERTAINMENT", pioneer in the temporary use of such an innovation during an event, and thanks to a prefectural authorization obtained specifically for the event, it is the first time that a system preserving water and energy resources is installed in their facility, and more broadly in France.

Indeed, thanks to our partner EHThec, more than 50% of the heat contained in recycled grey waters, is recovered to pre-heat the water supply.

The French Tennis Federation had a dear wish to reduce its energetic footprint on training facilities; the challenge was accepted and brilliantly met by GL Events Live Sports and Entertainment, service providers for the temporary installation at the Jean Bouin sports center (source: Le Quotidien de Roland Garros, October 3, 2020).

The performance and reliability of the FGWRS system, which is based on studies for the European Space Agency (ESA), no longer need to be demonstrated. Since 1987, the ESA develops so-called life-supporting recycling technologies to reach cutting-edge self-sufficiency and safety for astronauts. Grey waters represent a major part of the waste to be recycled. It thus justifies why, thanks to the support of the FGWRS and FIRMUS teams, the ESA has been developing, improving, and testing these technologies for about 20 years.

Today, these projects gather a large community of scientists, engineers, universities, private companies specialized in Earth and Space science. This community spreads across 15 countries and is pursuing two goals: space missions and the development of a circular economy enabling a decrease of [the] environmental impact [on Earth].

Monitored by FGWRS, the recycling of grey waters has been working in real conditions without any technical and health incident for 15 years on the research station Concordia, Antarctica. The station, co-managed by the French Polar Institute (IPEV) and the Italian National Antarctic Research Program (PNRA), has welcomed more than 1300 individuals since 2005.

Thanks to its perfect control over the technology, FGWRS is now able to extend its grey water recycling solution to medium and large size collective housing (e.g., hotels), and shortly to individual housing. Safety, flexibility, drinkable water and energy resources savings, energetic self-sufficiency, resources preservation, anyone will find its own motivation to adopt this technology.

The same system will also be used in 2021 and 2022, at the same location and for the same application, with the technical team committed to ensuring improvements especially in terms of grey waters energy recovery, with the goal to merge water and energy savings on the same spot.

Circular economy is thus striving for a more resilient world.

› Preserving drinkable water resources for future generations

FGWRS, a Monaco-based start-up, commercializes its efficient grey waters* recycling systems for individual, collective housing and hotels. Its objective is to contribute to the preservation of drinkable water resources by recycling 80% of grey waters, and directing them towards the toilet flush, showers and washing machines ... while recovering its thermal energy.

The FGWRS technology is reliable and safe. Based on studies for spatial research, it is backed up by 15 years of experience gathered in the Antarctic research station Concordia where the system has been running ever since, with no technical or health incident reported.

FIRMUS, based in Clermont-l'Hérault (Province of Occitanie) since 2011, holds the know-how and technical expertise, at the disposal of FGWRS. The mission of FIRMUS is to: treat, purify, separate, and recycle water and effluents.

Since its advent, FIRMUS has led an important number of missions and technical achievements for various clients, who trust its expertise: Arkema, Antéa, Véolia Propreté, IPEV (French Polar Institute).

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*Grey waters: used water produced by domestic activities
(excluding black waters which contain feces and urine).

January 15, 2017, Official Journal.

Links

www.fgwrs.mc

www.ehtech.fr

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home station, Jean Bouin tennis installation, training locker room Roland Garros 2020

Photo: Mathieu Génon for FGWRS



wash water › save water