



EUROPE

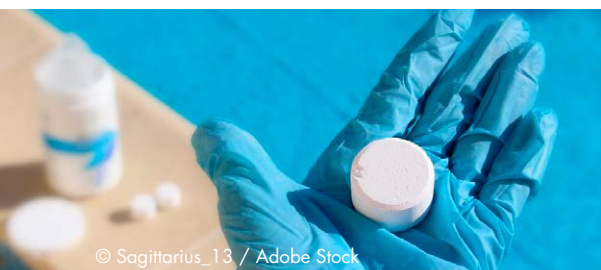
THE LEADING
SWIMMING POOL
AND WELLNESS EVENT



SUSTAINABLE DEVELOPMENT / CSR

REDUCING THE ENVIRONMENTAL IMPACT OF PUBLIC AND PRIVATE POOLS

Optimisation of water and energy consumption, waste management, a novel approach to water treatment, the challenges of pool renovation and maintenance... Sustainable development is a key topic of discussion in the sector. Pool professionals are aware of this and are taking action to reduce the environmental impact of private and public pools, whether through technologies or new approaches and practices.



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DEVELOPMENTS IN TECHNOLOGY TO MEET THE CHALLENGES OF CLIMATE CHANGE

The advancement of technologies, with higher performance and lower consumption, and the commitment of professionals in the sector, have enabled real progress to be made in terms of energy consumption, water treatment and waste management*:

In pool **water treatment**, 80% of the process is mechanical (filtration) and 20% involves products used to eliminate bacteria and keep the water clean. Although filtration systems consume 6.5 times less energy than 40 years ago, it must also be noted that alternatives to the use of these chemicals are becoming more widespread. Thus, treatment by salt chlorination, ozone or UV are gaining popularity amongst both professionals and private pool owners.

Water consumption has also dropped sharply in France: -45% in 25 years. This number is explained by a combination of two factors:

- on the one hand, innovation leading to the use of more effective filtration techniques in particular, reducing the quantity of new water used,
- on the other hand, smaller pool volumes.

Energy consumption of pools has also significantly decreased, whether for heating, filtration or lighting, which now consumes 40 times less energy than 40 years ago.

Regarding **management of waste** from pools and pool equipment, 60% is recycled, 30% is eliminated or energy is recovered from it, and 10% is re-used. The FPP is currently working on setting up waste management solutions, in connection with renowned eco-organisations in the context of the application of the wider responsibility of manufacturers for products and materials in the construction or building sector (REP PCMB).

*source: FPP Press Information - April 2022 - Figures for private pools.

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A European environmental standard for private pools

In a key “first” for the pool sector, a new **European environmental standard** is scheduled for release in Autumn 2022 and will come into effect in 2023. The result of a consultation initiated in 2019 between the FFP (French Federation of Pool and Spa Professionals), AFNOR and the European Committee for Standardisation, the aim of this standard will be to classify **pool equipment based on energy performance**. Thus, all equipment will carry pictograms allowing pool professionals and owners to optimise energy use of their pools by making choices based on clear, precise, objective information common to all European countries.



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I Créa Piscines 35
Mondial Piscine Rennes dealer

CHANGES IN DEMAND

The challenge of renovation: transforming a pool for a new use

Advances in techniques, energy optimisation, a change of aesthetic criteria, a new garden layout...these are all reasons to renovate your pool from an ageing basin to a modern pool that meets current challenges. Renovation provides an opportunity to benefit from the latest progress not only in terms of heating, water quality and energy savings, but also materials and design.

Regarding public pools, often built in the 1960s/1970s, concerns involving energy renovation and harmonisation with current standards are just as important.

The challenge of recycling pool materials

Recycling or re-use solutions are already available for pool materials. However, for certain elements such as PVC liners (which must be replaced every 10-15 years), or shells made of polyester and other plastics, there are at present no suitable recovery or recycling solutions. The FFP is currently looking into how these can be set up, in connection with eco-organisations. In addition, local initiatives have been created, such as in the Hautes-Alpes where a company is testing the feasibility of recycling PVC liners to make industrial doors, partition walls, flexible windows or geomembranes. The aim of the profession: transform these individual initiatives into a structured channel.

Automation, a solution to optimise consumption

Pool automation contributes to saving energy. You can, for example, manage the pool heat pump so it only runs when necessary, depending on the water temperature. The same is true for optimisation of filtration systems, and management of pool covers, water treatment or lighting.

New skills, emerging to meet demand

The demand from the wider public in terms of more sustainable and automated pools with higher performance requires development of skills amongst the teams of professionals involved in these various aspects. Training in natural water treatments, pool and home automation, or the wider responsibility of manufacturers for buildings and recycling, is now offered at initial or adult training centres in the form of modules, enabling professionals to meet the demands and challenges of the market.

Focus on the Alice Milliat inter-municipal pool in Bourgoin-Jallieu (Isère, France), the first pool to aim for the BEPOS certification

Building works began on the inter-municipal pool at Bourgoin-Jallieu in May 2020 and it opened its doors in September 2022. Its objective: go above and beyond an HQE certification (high environmental quality) to achieve BEPOS certification (energy-plus building). To reach this target, i.e., to produce more energy than it consumes, the building must have an energy performance of 2200 kWhPE/m² per year. In addition to the energy efficiency of the building, this will require:

- solar heating (700m² of photovoltaic panels on the roof and the car park shade structure),
- a thermal blanket on the pool,
- a system for recovering heat from grey water, and natural ventilation in addition to mechanical ventilation, dehydration of the air by renewal of outside fresh air.

To find out more about this project, click here (<https://capi-agglo.fr/nos-grands-projets/la-future-piscine-capi/>)



| Perspective of the new intercommunal swimming pool of Bourgoin-Jallieu

SUSTAINABLE DEVELOPMENT, A CENTRAL FOCUS OF THE ISSUES FEATURED AT PISCINE GLOBAL EUROPE

Piscine Global Europe, the leading event in the pool and wellness sector, has built a reputation as a key event for anticipating, understanding and discussing future challenges, in particular environmental and climate-related issues. Throughout the exhibition, various themed areas and key scheduled moments have been organised, providing the opportunity for understanding of these concerns to develop, in particular:

- Seminars in the **Pool Arena**, a new inspirational area at the very heart of the exhibition, dedicated to discussions and round tables on hot topics and major challenges faced by the sector: promotion of new solutions, emergence of new skills, communication on these aspects.
- Sustainable technical innovations presented at the **Pool Showcase**, and via the innovations and exceptional pool projects showcased by the Pool Innovation Awards competition.



| Intercommunal swimming pool Alice Milliat in Bourgoin-Jallieu

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ECO-FRIENDLY STEPS PUT IN PLACE BY PISCINE GLOBAL EUROPE

At its own level, Piscine Global Europe is seeking to meaningfully reduce its own environmental impact and is making concrete commitments.

Responsible communication

- Printing of all communications documents (brochures, flyers, maps, programmes, invitation cards, press documents, etc.) on **recycled paper**.
- Dematerialisation of many visitor communications tools.
- Dematerialisation of visitor badges.
- Use of recyclable materials for the small signs at the exhibition.

Eco-design

- **Integration of recyclable or reusable materials** (wood, card, etc.) in the design of stands and communal areas.
- **Reuse** and rental of furniture for the event.
- **Use of recyclable carpet** in the exhibition aisles and reusable carpet tiles in certain areas of the exhibition. The carpet will not be present over the entire width of the aisles of the show to limit its consumption and its impact.

Transport

- Encouragement to use car-sharing.
- Encouragement to travel to the Eurexpo exhibition park using sustainable or public transport: tram, bus, etc.

AT THE EUREXPO EXHIBITION CENTER

Mobility

- Development of the public transport offer, served daily by the T5 tramway running from the centre of Lyon to inside the Eurexpo park.

Waste sorting

- **Waste sorting** during set-up, opening and dismantling, and reuse of the materials.
- **Installation of differentiated waste bins** in the aisles at the exhibition to sort visitors' waste.
- Sorting now includes wood (partitions, flooring), card, brochures and a high percentage of carpet. Eurexpo provides a waste sorting guide for its clients.
- For furnishing waste, a partnership has been established with Valdélia, the eco-organisation approved by the ministry of ecology, sustainable development and energy. Valdélia recovers everything made of wood (partitions, flooring, etc.) and the furniture left at exhibitions after dismantling. This is all evacuated in a dedicated skip.
- Plastic bottles are no longer provided in meeting rooms, a new Tetra Pak solution is in place instead.
- Progressive transformation of the materials used for manufacturing commercial signs.

Electricity

- Upgrading of the centralised management system to improve management of lighting in the exhibition area, and thermal comfort (air heating and cooling).
- Verification and upgrading of insulation of the park's heating network.
- Contract for the supply of green electricity.
- Installation of external LED lighting and progressive roll-out across the exhibition area.
- Installation of movement sensors in the exhibition area toilets (in progress).
- Visitor and exhibitor car parks are equipped with 24 charging terminals for electric vehicles.

Water

- Verification twice a day of all water meters in the park to detect any leaks and act immediately.
- Installation of water fountains in the main entrance.

Catering

- Axing of all plastic, replaced by the use of renewable, compostable materials by on-site caterers for containers, cutlery and packaging.
- Recyclable restaurant placemats for all Eurexpo restaurants.
- Sorting of cardboard, PET, glass, and recovery of plastic lids.
- Priority given to supplies from organic, local and seasonal produce sources.
- Recovery of unsold cooked food by the association "Le Chaînon manquant" to reduce food waste.
- Management of biowaste in all restaurants in the park.
- Recovery of cooking oils by Bioval'huiles.