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Designs for Energy
Company Sweetch

French-German architectural firm chaixetmorel. develops visionary architectural design for climate-tech Sweetch Energy's osmosis energy harvesting generators

The innovative climate-tech Sweetch Energy – a renewable energy company specializing in osmotic energy – will be showcasing its groundbreaking osmosis energy harvesting generators at the VivaTech 2023 technology fair in Paris, starting today, June 14.

In close collaboration with Sweetch Energy and a team of engineers from EDF, the renowned **French-German architects** from chaixetmorel. have developed a unique **architectural language** that bestows a visionary form upon the generators.

Osmosis generators harness the natural process of osmosis energy which is is generated by the difference in salinity between fresh water from rivers and sea water when they meet. Sweetch Energy's INODÒ **innovative technology** is based on a new generation of nanoscale membranes specifically designed **to harness osmotic energy**. It enables the production of clean and competitive electricity from salt water, a permanent and abundant source of energy that has not been exploited to date.

The collaboration between Sweetch and chaixetmorel. creates an inspiring connection between **technology and aesthetics**. The architects have translated Sweetch Energy's osmosis generators into futuristic structures that are both functional and visually compelling.

These new power plants, which are neither polluting nor noisy or hazardous, present entirely new possibilities for integration into natural or inhabited environments.

Therefore, this groundbreaking technology also deserves a new architectural concept that can be open and transparent, without the need for extensive, hermetically sealed structures. The heavy rack structures, through which freshwater and saltwater flow, are enveloped by an ecologically and economically optimized lightweight construction.

To address this, the architecture company chaixetmorel., based in Paris, Berlin, and Vienna, has designed an architectural language that is not only aesthetically appealing but also meets practical requirements.

The construction bears resemblance to the renowned realizations of the textile concert halls Zenith in Paris and Montpellier, originally conceived as temporary installations, by the office that has not lost any of its relevance.

Through these innovative designs, the architects breathe life into Sweetch Energy's visionary technology, enabling the next stage in the development of this new generation of energy production.

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This unique combination of an environmentally friendly energy production and an ecological and economical contemporary design positions the startup as a pioneer in the energy transition. Visitors to the VivaTech 2023 fair in Paris will have the opportunity to experience Sweetch Energy's revolutionary technology firsthand and be inspired by the architectural design by chaixetmorel. Sweetch Energy and chaixetmorel. cordially invite everyone to visit their booth and discover the future of sustainable energy generation

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ABOUT CHAIXRTMOREL.

The architectural firm chaixetmorel. operates from locations in Paris, Berlin, and Vienna, offering a unique blend of European backgrounds and diverse perspectives. The multilingual and multicultural composition of the team, consisting of around 40 employees from 10 different nations, contributes significantly to the firm's understanding of architecture.

Founded in 1983 by French architects Philippe Chaix and Jean-Paul Morel, the studio is now composed of five architect partners, three French and two German-speaking: Pierre Cornil, Jan Horst, Walter Grasmug, Remi Lichnerowicz, and Rémy Van Nieuwenhove.

The company's most important projects include the polyvalent concert and event halls Zenith in Paris and Montpellier (F), the Ecole des ponts et des chaussées et des sciences geographiques university in Marne la Vallée (F), the Licorne football stadium in Amiens (F), the renovation of the Petit Palais (Museum of Fine Arts) on the Champs-Élysées in Paris (F), the administration campus for Thyssen Krupp in Essen (D), the conversion and expansion of an Art Nouveau building from the 1930s into the Museum of European History in Brussels (BE), and the mixed-use campus district Viertel Zwei Plus in Vienna (A).

Currently, the firm's most important projects in planning and execution include the headquarters of the French energy company Engie - Paris (F), reversible residential buildings and the media center of the Olympic Village for the 2024 Summer Olympics in Paris (F), the renovation and expansion of the Parc sportif sports complex in Limoges (F), and the conversion of the listed Tegel airport in Berlin (D).

In a world of technological demands, chaixetmorel. steadfastly pursues a poetic approach, often breaking with the anonymity of large dimensions and questioning current trends.

The headquarters of chaixetmorel. are located in the 20th arrondissement of Paris, in a light-filled, pavilion- like remise in the middle of a green courtyard. The office building itself reflects the firm's architectural principles, including lightness and transparency and a reduction to the essentials.

ABOUT SWEETCH

Founded in 2015 and based in Rennes with around 30 employees, Sweetch Energy is a renewable energy player specializing in osmotic energy, committed to a carbon neutral world. Its INOD® technology enables the production of clean and competitive electricity from salt water, a permanent and abundant source of energy that has not been exploited to date.

Driven by a desire to push back the frontiers of renewable energy, its multicultural and highly qualified team combines scientific expertise and industrial vision. Sweetch Energy benefits from the support of multiple renowned European and French institutions.

It is notably financially supported by industrial, deeptech and cleantech investors (EDF, CNR, Go Capital, Demeter Investment Managers, Future Positive Capital) as well as by BPI, Ademe and the European Innovation Council, and cooperates closely with French research institutions, notably with the teams of Professor Lydéric Bocquet (CNRS, ENS).

Sweetch Energy has won the Mondial de Innovation, I-Nov and I-Lab competitions and participated in the European Nanophlow consortium founded by H2020 as part of the FET-Open program.

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