

Annual report 2022

JAN
01 R & D Project

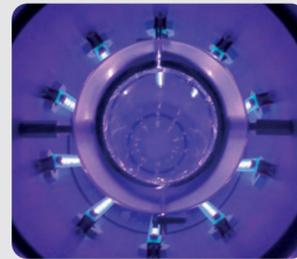
S2H project

S2H project "Solar to hydrogen energy conversion efficiency using seawater" aims to generate new knowledge to improve the efficiency in the conversion of seawater into hydrogen through the use of photocatalytic processes.

MAR
03 New product

New UV-C lamps

After an important upgrading work, APRIA Systems introduced a new generation of UV-C LED lamps with adjustable irradiance, different wavelengths and higher radiation intensity. These new series of lamps allow higher disinfection doses while keeping a maximum degree of customization to the needs of our customers.



MAY
05 New product

Fabric lamps

After an important R&D work, the company has successfully developed a first series of photochemical lamps that couple luminous textiles with LED technology. The resulted milestone allows to minimize the energy consumption of the photochemical process while enhances a better illumination of the system.



JUN
06 Exhibitor in a conference

Participation at SPEA11

Promotion of our advanced oxidation equipment at the 11th European Conference on Solar Chemistry and Photocatalysis: Environmental Applications (SPEA11), held in Turin, Italy. The people who visited our booth had the chance to see working two of our photoreactors, one of our electrochemical cells and one photoelectrochemical device.



OCT
10 New product

Scale-up photoelectroreactor

Based on bench scale designs, APRIA finished last tests of a scaled-up photoelectroreactor prototype that can work 24/7 with a flowrate up to 5 m³/h. This cutting-edge device is provided with four UV-A LED lamps of adjustable irradiance and titanium electrodes.



NOV
11 Exhibitor in a conference

Participation at the CIPOAV

APRIA Systems attended as an exhibitor to the 5th Iberoamerican Conference on Advanced Oxidation Technologies (CIPOAV), in Cusco, Peru. Our visitors were able to see one of our cutting-edge photoelectrochemical equipment.



NOV
11 R & D Project

CIROX project

CIROX project "Closing the water cycle in industry through innovative and efficient wastewater systems based on photo(electro)catalysis" aims to evaluate the impact of the photochemical and photoelectrochemical technology for its application to the treatment of wastewater.



2023

