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In the recent period of increasing global warming effects, water loss has started to manifest itself as one of the most important problems. With high temperatures, thousands of tons of water in dams are evaporating and decreasing. But is it possible to overcome this problem in a sustainable way? Floating solar power plants (SPPs) have been generating clean energy in recent years and prevent evaporation by covering stagnant water such as dam lakes.

What is a floating SPP?

A floating solar power plant is known as a solar power generation system in which solar panels are mounted on a floating platform on water. Floating solar power plants have great advantages over terrestrial systems where solar energy is traditionally generated. Floating SPPs provide higher efficiency than terrestrial systems without the need for land. This is because the water helps the solar panels stay cooler, increasing the time they work efficiently. In addition, since it covers the water, it prevents the evaporation of usage and drinking water at high temperatures and also prevents a decrease in dam occupancy.

China ranks first in floating SPPs

The number of floating solar power plants in the world is also increasing. By the end of 2022, the capacity of floating SPP projects in the world is estimated to exceed 3.4 GW. China has about half of the world's floating solar power capacity. It is followed by Japan, South Korea, France, India, and the UK.

YEO, which currently delivers energy and industrial solutions to every corner of the world in Europe, Middle East, Central Asia, and Africa with more than 225 projects in more than 30 countries in 3 continents, aims to become one of the global players in the field of floating SPP. YEO will realize projects with floating SPP systems, for which it has been conducting R&D activities for about 3 years, and will carry them to the world, starting from Türkiye. YEO aims to realize floating SPP systems with its subsidiary Marinenergy. With this initiative, which is the first and only one in Türkiye and one of the few examples around the world, solar and wind energy will be generated in the sea or still waters in Türkiye.

'Türkiye has high potential'

Tolunay Yıldız, CEO of YEO Technology, emphasized that Türkiye has a very high potential in this field. Stating that YEO offers innovative solutions in addition to traditional renewable power plant projects, Yıldız explained their goals in this field as follows: "Floating SPPs produce environmentally friendly energy and conserve water in reservoirs and irrigation canals. Floating SPPs are a technology that can be used in all irrigation canals in Türkiye, especially in the Southeastern Anatolia Region, and in dam lakes in other regions. We continue our R&D studies with our Marinenergy brand and closely follow the developments. We consider the activities in this field, especially in our country, as a national issue and we attach importance to them. We are ready to pioneer such innovative energy projects both in Türkiye and in regional countries. With our 'We Think It's Possible' philosophy, our goal is to protect natural resources and leave a cleaner world for future generations."