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YEO rolls up its sleeves for green hydrogen

Green hydrogen will be the energy of the future

Green hydrogen, which has an important place in Türkiye's National Energy Plan, will be the energy of the future. YEO Technology has also started working for hydrogen, which will carry Türkiye to the top of the green transformation. YEO Technology will work to offer solutions to produce green hydrogen with renewable energy.

Türkiye's National Energy Plan & Türkiye Hydrogen Technologies Strategy and Roadmap for a cleaner future has been announced. Accordingly, green hydrogen will have an important place in this vision as the fuel of the future in Türkiye. YEO Technology, which has been realizing renewable energy projects for **18 years**, has started to work for green hydrogen that will carry Türkiye to the top of the green transformation. YEO Technology will work to offer solutions to produce **green hydrogen** with renewable energy.

70 GW of energy targeted

Minister of Energy and Natural Resources Fatih Dönmez emphasized the importance of hydrogen energy with the National Energy Plan announced the other day. According to the plan, starting from 2030 until the end of 2053, it is aimed to increase the mixture ratio of hydrogen to natural gas to 12 percent and the mixture ratio of synthetic methane to 30 percent.

For the first time in Türkiye, tests for the use of hydrogen obtained from renewable sources mixed with natural gas up to 20 percent in the network and internal installations were carried out and successfully concluded. Work is also underway for the use of hydrogen in industry. The installed capacity of hydrogen electrolyzers in Türkiye is planned to reach 2 GW in 2030, 5 GW in 2035, and 70 GW in 2053.

YEO Technology, which has been producing sustainable energy projects in Türkiye and different countries around the world for 18 years, has also accelerated its work in the field of hydrogen. Producing technology in many different fields from solar energy to wind energy, hydro energy to biogas, YEO has accelerated all projects that will bring it closer to the **Net Zero** target. Working in this field in Türkiye, YEO Technology established its subsidiary named **YEO Hydrogen** in Germany for the European market.

Pointing out that hydrogen is considered as the energy of the future, Tolunay Yıldız, CEO of YEO Technology, said, "We are happy to see that hydrogen energy from renewable energy sources is supported in Türkiye. With this vision, we established a company called YEO Hydrogen in Germany last year. We are working for green energy based hydrogen projects both in Türkiye and Europe. **With more than 225 projects in over 30 countries in 3 continents,** we deliver **energy and industrial solutions to every corner of the world** in Europe, Middle East, Central Asia, and Africa. We will support green hydrogen for emissions reduction and decarbonization."

What is green hydrogen?

Hydrogen energy is defined as the energy source obtained by converting hydrogen, which is found as compounds in nature. This energy source is created by separating hydrogen atoms from oxygen atoms. Recently, hydrogen energy has been seen as one of the energy alternatives to be used to achieve the decarbonization targets under the Paris agreement. Hydrogen energy has a production process represented by different colors. In other words, hydrogen energy can be produced with different energy sources. These are classified as gray hydrogen produced with fossil fuels, blue hydrogen produced with natural gas, turquoise hydrogen produced by thermal decomposition of methane, which is still in the trial phase, and green hydrogen produced with renewable energy. Green hydrogen is seen as an opportunity both to meet the requirements of the Paris Climate Agreement and to solve the world's energy problem. As of today, 70 million tons of hydrogen consumed is obtained from fossil sources. Within 30 years, hydrogen production is expected to come from green sources.