그린수소 생산의 기술 장벽

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Green hydrogen is a key area of future energy. The process of producing hydrogen is achieved by electrolysis of water based on electricity which is produced by solar and wind power. This energy will be future energy in that there is no emission of carbon dioxide. But you have to keep in mind that there are so many barriers to producing green hydrogen. For example, the intermittence of solar and wind power is a problem. Precise pressure regulation in electrodes of water electrolysis devices will be another challenges and microcurrents flowing throughout the device is also difficult. Electrolyte solution contains dissolved oxygen and hydrogen which is another source of problem. In this case, electrolytes may be a possible source of ignition. Storage tanks for hydrogen storage are being used indiscriminately in Korea without the relevant regulations. The problem is that there are experts in each field but there is probably no one who can see the whole integrated process of green hydrogen production. There is a real need for in-depth discussion on this matter.