



GENERAL

Power-to-Gas can be temporarily stored in existing gas networks with chemical energy in the form of hydrogen or synthetic natural gas - just like a giant battery.

IPS-FEST RECTIFIER

In the electrolysis process, corresponding direct current power is required to operate the splitting of the water. IPS-FEST produces the power supplies required for the electrolysis process according to the specifications of the respective application. IPS-FEST also supplies the corresponding power supplies in the form of DC thyristor converters and AC-IGBT inverters for the conversion of hydrogen into electricity when required. Here, the stored hydrogen is converted into direct current and fed back into the three-phase supply networks via so-called DC/AC converters.

EXAMPLE

An example of a reverse power generation: Mobile fuel cell 1MW as energy supplier in a container! In the container are the power supplies of IPS-FEST, as well as the fuel cell/electrolysis and the necessary control system are already installed. Due to the installation in a mobile container the fuel cell is not bound to a specific location and can be installed practically everywhere. The power supplies of IPS-FEST, which are highly appreciated for their high operational reliability and longevity, prove themselves daily in tough industrial applications all over the world. They are available in liquid-cooled or air-cooled design.

