



YEDİÇ ENERJİ

Renewable Energies Design and Manufacturing Solutions
Smarter, Greener & Economical Hydrogen Management

YEDİÇ Enerji offers project development, engineering, fabrication and technical support of HydroPure hydrogen recycling units for industrial plants, that are dependent on hydrogen in their production processes, such as petroleum refining and ammonia synthesis industries.

Hydrogen is one of most widely used industrial gases worldwide. Global annual H₂ demand 50 billion tons and 66 % of hydrogen is produced from fossil resources (natural gas, coal). This makes hydrogen production a costly process; 1 tonne of hydrogen produced requires 3.5 to 4 tonnes of hydrocarbons as feed and fuel, thus hydrogen cost is directly proportional to fossil fuel prices.

On the other hand, production of 1 tonne of hydrogen co-generates 8-12 tonnes of CO₂, adding to climate change. Moreover, part of hydrogen that is used in industrial processes vents off to the atmosphere, creating an economic loss.

To address those pains related to hydrogen use in industrial plants, we designed HydroPure hydrogen recovery systems. HydroPure regains the hydrogen in the after-process purge gas and puts it into reuse of the plant, thereby offers a smarter, greener and economical hydrogen management for industrial plants that heavily use hydrogen.

Our value proposition:

- Reduction in hydrogen generation costs
- Increasing energy efficiency
- Reducing CO₂ emissions from hydrogen generation from fossil resources.

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