

1 Outline: Using Hydrogen as Energy Storage

References

Current Situation Each year the electricity generated by using renewable energies like solar and wind makes up a bigger part in the energy-mix of Germany. But the amount varies because of seasonal or just daily fluctuations in wind. In 2018 wind energy was the main renewable source with about 48%, which made up around 19% of the overall consumption.

Need Because of the significant mismatch in grid power demand, the need for an energy storage solution is becoming more acute. It's a well-established problem for the industry, and there are a number of energy management and storage systems in the pipeline today, but few offer a complete solution allowing wind energy to be seamlessly plugged into the grid.

Problem

**Method and
Criteria**

**References and
Informations**