

1. Record Nr.	UNINA9910467852703321
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Titolo	Power-to-gas : renewable hydrogen economy / / Dr. Meziane Boudellal
Pubbl/distr/stampa	Berlin, [Germany] ; ; Boston, [Massachusetts] : , : De Gruyter, , 2018 ©2018
ISBN	3-11-055889-0
Descrizione fisica	1 online resource (226 pages) : illustrations
Disciplina	665.81
Soggetti	Hydrogen as fuel Electrochemistry, Industrial Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Frontmatter -- Foreword -- Contents -- Introduction -- 1. Global energy consumption -- 2. Electricity of renewable origin -- 3. Principle of power-to-gas -- 4. Electrolysis -- 5. Power-to-gas strategies -- 6. Beyond power-to-gas -- 7. Power-to-gas experiments -- 8. Financial approach to power-to-gas -- 9. Role of power-to-gas in energy transition -- Acronyms -- Index
Sommario/riassunto	With the development of renewable electricity and the expected important surpluses of production, how can the use of hydrogen improve the green energy portfolio? Power-to-Gas covers the production of hydrogen through electrolysis and its storage or conversion in another form (gas, chemicals or fuels). It emphasises the need for new technologies with global energy consumption, markets, and logistics concepts. Pilot projects around the world are discussed as well as how policy and economics influence the real use of these energy harvesting and conversion technologies.