

1. Record Nr.	UNINA9910903791803321
Autore	Kova Ankica
Titolo	Challenges and Solutions in the Hydrogen Value Chain : State of the Art Perspectives on Decarbonization and the Green Energy Transition / / edited by Ankica Kova
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031690518 3031690516
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (168 pages)
Disciplina	621.042
Soggetti	Renewable energy sources Hydrogen as fuel Fuel cells Materials Electric power production Renewable Energy Hydrogen Energy Fuel Cells Mechanical Power Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Considerations for a scalable business model for clean hydrogen -- Chapter 2. Public transit zero emissions bus applications: battery and electric bus comparison in a Canadian case study -- Chapter 3. Sustainable Electrocatalyst for PEM Water Electrolyzers -- Chapter 4. The concept of electrochemical hydrogen compression and purification technology -- Chapter 5. The role of hydrogen in energy system: state of art and future prospects.
Sommario/riassunto	This book brings together global experts from industry, science, and the policy and investment communities to discuss the field of hydrogen technology. The papers cover the hydrogen value chain from hydrogen production, storage, and transportation to hydrogen use as a solution to climate change. Novel expertise in each segment will help readers

understand hydrogen's important role in power sector decarbonization and the green energy transition. Brings together a global group of experts; Discusses the entire hydrogen value chain; Examines hydrogen's role in the green energy transition.

---