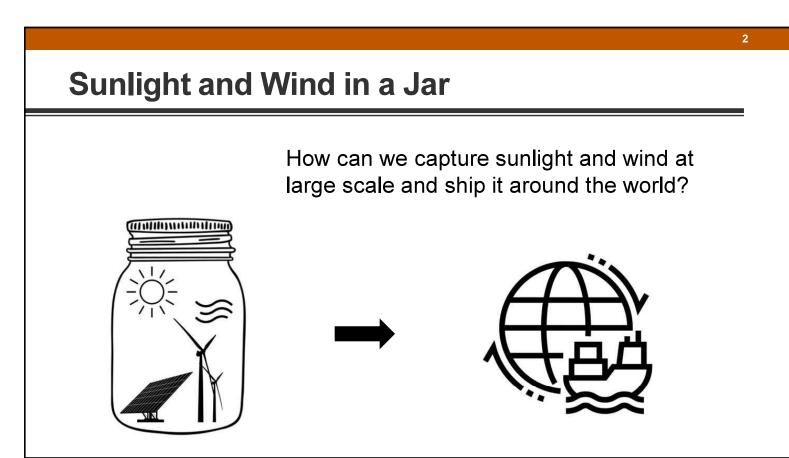


The University of Texas at Austin Center for Electromechanics Cockrell School of Engineering

## HYDROGEN – A VERSATILE CLEAN ENERGY CARRIER

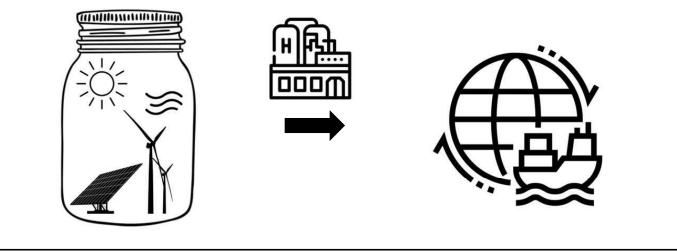
19<sup>th</sup> Annual Renewable Energy Law Institute January 30, 2024

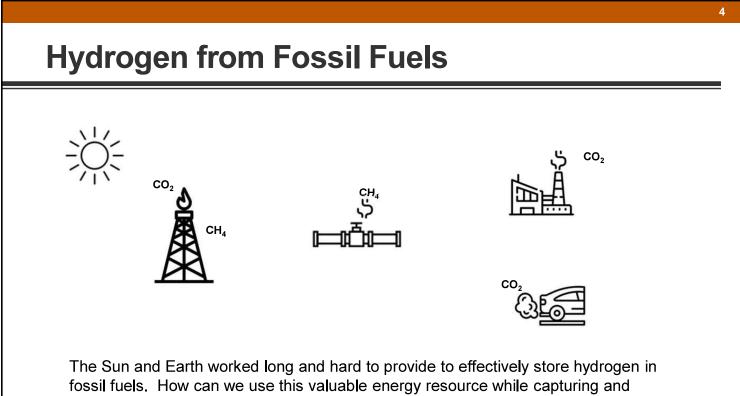
**Michael Lewis** 



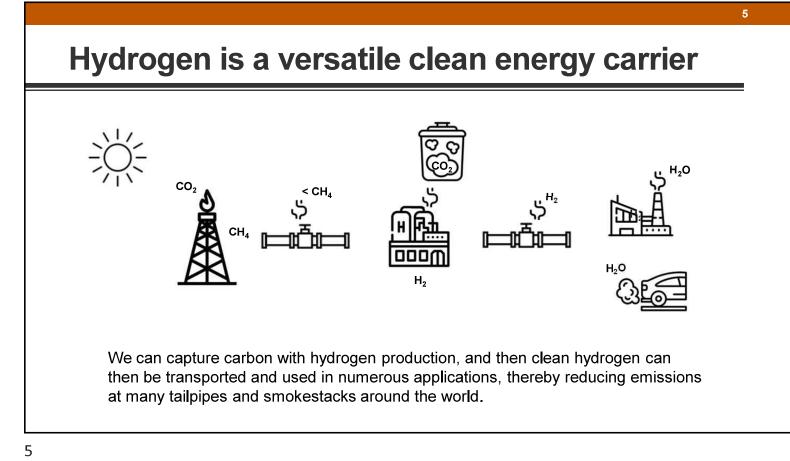
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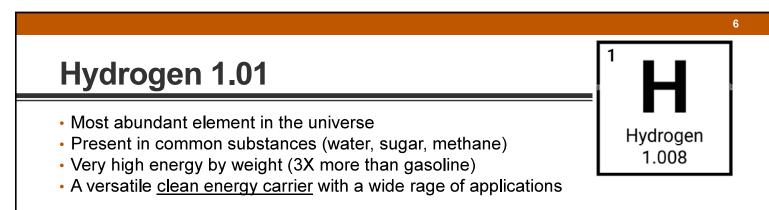
## Hydrogen is a versatile clean energy carrier Hydrogen can allow us to "bottle" wind and solar power and move it around the world?





managing the carbon responsibly?





## **Challenges**

- Rarely found naturally, typically make from water or hydrocarbon sources
- Production, storage, and transport are all energy intensive due to poor gravimetric density

How we will use and produce hydrogen is not without controversy

- · Today costs are relatively high and infrastructure is limited
- Hydrogen emissions can prolong GHG in the atmosphere
- Water use is a local community issue

6

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## Title search: Hydrogen as an Emerging Low-Carbon Energy Solution: What's Old is New Again

First appeared as part of the conference materials for the 19<sup>th</sup> Annual Renewable Energy Law Institute session "Hydrogen as an Emerging Low-Carbon Energy Solution: What's Old is New Again"