Innovative and Impactful Solutions

Applying the framework from Taming the Sun

Taming the Sun: Innovations to Harness Solar Energy and Power the Planet by Varun Sivaram.

Published by the MIT Press (March 2, 2018).

This blog entry is available on Medium, 11 Dec 2019

Reading and Reflection on the Book of Solar Energy

For more deployment of solar energy we need three kinds of innovations:

1) Financial,

2) Technological,

3) Systemic innovations.

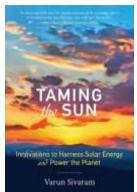


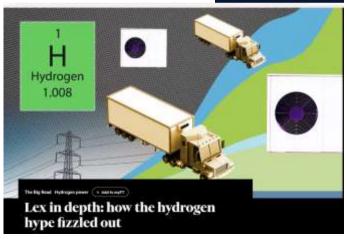
22 May 2024

Lex in depth:

how the hydrogen hype fizzled out

which the *Financial Times* called "the best available overview of where the solar industry finds itself today"





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The framework of innovations for hydrogen supply chain:

- 1. **Financial innovations** are critical to de-risking investments in hydrogen infrastructure and production. Creating attractive financial models can catalyze large-scale hydrogen deployment.
- 2. **Technological innovations** are essential to reduce production costs, improve storage and transportation, and increase the efficiency of electrolyzers. Investment in R&D will be crucial to overcome these barriers.
- **3. Systemic innovations** must address the infrastructure challenges, integrate hydrogen into existing energy systems, and align policies across sectors. Hydrogen has a unique role to play in decarbonizing various sectors, so a coordinated approach is key.

Each of these innovations must evolve in parallel, building a robust hydrogen economy that can compete with fossil fuels while supporting the global transition to a low-carbon future.