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new class of materials with unique properties that stem from their reduced length scale ($1 < d < 100\text{nm}$). Double-wall nanotube Nanotube-bundle Cup-stacked Carbon Nanofiber Nanohorns Source: Basic Research Needs for the Hydrogen Economy, p.43

<http://www.sc.doe.gov/bes/reports/abstracts.html#NHE>

The Hydrogen Economy - NCU

A hydrogen economy advent cannot be based on the current processes and plants, but will need to take advantage of distributed generation systems and to exploit the potential of hydrogen generation in synergy with large electricity or heat generation plants, provided their CO₂ emissions are intrinsically low or are abated by means of carbon capture and/or sequestration (CCS) systems. This chapter will focus on real carbon-based energy process appliances and new business cases.

Hydrogen Economy - an overview | ScienceDirect Topics

the vision of a hydrogen economy by considering not only the closed hydrogen (water) cycle, but also the closed carbon (CO₂) cycle. This could create the ... Carbon atoms from biomass, organic waste materials or recycled carbon dioxide could become the carriers for hydrogen atoms. Furthermore, the energy consuming electrolysis may be partially ...

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provided by hydrogen (IRENA, Global Renewables Outlook, 2020). 8 FCH JU (2019) Hydrogen Roadmap Europe. Based on the ambitious scenario of 20 MT (665 TWh) of hydrogen consumption. 9 BNEF (2020) Hydrogen Economy Outlook. Expected sales of USD 696 billion (2019 dollars).

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