

The Green hydrogen

Ali Al-harissa

Physics department- Science College

Jazan University

Abstract:

The world is facing an all-time major challenge of Climate change and different Global Economies are committed to bring down the carbon emission to net-zero by 2050 and the overall rise in temperature by 1.5°C. With these challenges emerging countries are in search of achieving decarbonization of Economies and bringing cleaner, Sustainable Alternatives and Technologies across all the economic Sectors. Green Hydrogen can be the answer that can provide a link between growing and sustainable renewable electricity generation and hard to electrify sectors. Green Hydrogen can be one of the key potentials to bring down the Carbon emission and movetowards sustainable goals. Neo ecology is a Megatrend and Developing technologies for Green Hydrogen can be considered as an important subtend. The Scenario analysis has been considered as the methodology for analyzing the Technology field. Here we consider Competency, Technology and Functionality of Green Hydrogen and to analysis the Performance and Market.

Keywords: Renewable Energy, green hydrogen , fuel cell, hydrogen storage, PEM