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Plans for increased hydrogen production are essentially based on electrolysis using electricity from intermittent renewable sources. Off-peak capacity of conventional nuclear reactors or ...

Conduct essential R& D required to enable LWR plants to dispatch both thermal and electrical energy for production of nonelectrical products through FPOG. This work focuses on interfaces between the ...

For large-scale hydrogen production, it is desirable to use renewable energy and energy sources that do not emit  $CO_2$ , such as nuclear power (Light Water Reactor, LWR).

Recent advancements in both fields have improved efficiency, reduced costs, and increased storage capacity, making them increasingly viable options for balancing intermittent RE production.

Achieving carbon neutrality requires flexible power systems to integrate variable renewable energy. Power-to-gas enables hydrogen storage from excess electricity, while rising ...

Hydrogen is among the technologies with the greatest potential for seasonal energy storage in the future. Learn how hydrogen energy storage works, different means of utilizing hydrogen for energy ...

In this article we examine opportunities and challenges to be addressed for advanced nuclear, hydrogen, and fusion energy. Setting the Stage for Nuclear, Hydrogen, and Fusion Energy.

Hydrogen holds potential in industry, long-duration energy storage and long-haul transport, but its competitiveness depends on large-scale deployment yielding substantial cost ...

Researchers are exploring various materials, including metals, intermetallic compounds, carbon-based nanomaterials, and MOFs, to optimize the hydrogen storage capacity and ...



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Since the nuclear disaster, Fukushima has become a powerhouse for renewables in Japan. But the prefecture is still pursuing hydrogen as a key cog for the energy transition.

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