



The Innovation Energy: An international journal of energy science and engineering

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Energy is the engine that drives the progress of human society and economy, playing a crucial role in sustaining modern human civilization.

Energy has been an integral and irreplaceable part of human activities throughout human history. Every innovation of energy signifies the tremendous progress of civilization, which eventually results in the liberation of productivity. The pace of pursuing and utilizing energy is consistently on the march. As early as 80,000 years ago, Homo sapiens learned to "drill wood for fire", marking the initial energy use. Over the span of this period, the pace of energy never holds back, progressing from use of branches and weeds as fuel to the development of hydraulic and wind machinery. The invention of the steam engine powered by coal triggered the Industrial Revolution, opening a new chapter of energy utilization. Subsequently, fossil fuel, including coal, oil and natural gas, played a significant role in the energy system with next few decades, promoting the development of various modes of transport and modern industrialization.

While the global economy driven by the energy regulation has experienced a rapid and sustained growth, it has also brought about serious social challenges, such as climate change, pollution and ecological deterioration, conflicting with the goal of sustainable development. The transition of our energy system towards a clean, low-carbon, efficient, resilient, and collaborative model is critical to meet the requirement of emission reduction and achieve long-term sustainability, which is also considered as one of most efficient solutions to mitigate climate change. Renewable energy like solar, wind, hydrogen, and biomass have been energetically developed over the world in recent decades, offering diverse solutions for a sustainable planet.

However, the latest trends in global energy development reinforce the accelerated shift of energy consumption from fossil energy to a combination of fossil and renewable energies.

Today, energy demand continues to increase rapidly, driving technological advancements. Energy is still an everlasting topic, which is worthy to be explored to address the issues of energy demand and ecological environment. Given that, it is more important than ever to set up a platform that could display the scientific research progress on energy systems. To fill this gap, a new journal named as The Innovation Energy, which provides an advanced and international platform for worldwide energy researchers, is marked on the agenda. The journal aims to accelerate and disseminate more innovative scientific discoveries as well as creative technological applications across all energy-related disciplines. It welcomes world-class cutting-edge original research and review articles that deliver innovative and fundamental insights in all related fields.

The scope of this journal is broad, covering all aspects of energy-related topics, including energy generation, storage, distribution, management, use, and policy, as well as their impacts on society. The journal will bridge the gap between scientific discoveries, technological advancements, and real-world applications in the field of energy. Furthermore, our editorial team is committed to providing a fair and rigorous peer-review process that upholds the highest standards of scientific integrity to welcome contributions from researchers worldwide.

Let us see the unseen and change the unchanged with an energetic energy progress.