



RENEWABLES FIRST

## Webinar (Hybrid): Navigating the Path towards a Green Hydrogen Economy

29th January 2024 | 2:00 PM – 4:00 PM | Online (Zoom) / In-person

**Overview:** The strategic journey towards Net-Zero places significant emphasis on the direct electrification of processes through renewable electricity. This is complemented by the utilization of green hydrogen to essentially address imperatives of industrial decarbonization. Globally, the EU and many advanced economies are actively exploring the role and potential that Green Hydrogen can play in this pursuit. In alignment with the International Energy Agency's (IEA) Net Zero Scenario, a substantial 38% of the hydrogen demand is anticipated to be fulfilled through electrolysis based on renewable energy by the year 2050.

The prevailing methods for hydrogen production rely heavily on high-carbon-emission industrial processes, predominantly utilizing fossil fuels including natural gas and coal. In this existing landscape, there arises a prospective opportunity for the global community to engage in the green hydrogen market. This opportunity remains especially significant for hard to abate sectors, mainly the chemical feedstock and fertilizer industry, where fossil gas is used to extract feedstocks for industrial processes. This approach, particularly when dependent on imported fossil fuels, poses significant economic challenges for developing nations such as Pakistan.

Faced with escalating climate change challenges and the intricate interplay between energy, economy, and environment, Pakistan is also exploring its own green hydrogen potential, intending to chart a green hydrogen roadmap and strategy in the next few months. A pivotal facet of Pakistan's future trajectory could involve the widespread adoption of hydrogen and its derivatives—such as e-ammonia, e-methanol, and e-kerosene. A proactive approach is envisaged, where hydrogen can play a transformative role in the decarbonization of diverse sectors spanning industry, shipping, aviation, and long-haul transport. By strategically embracing these innovative solutions, Pakistan can mitigate its own climate change impacts, while fostering a sustainable future towards economic development. More importantly, the integration of the hydrogen vector into the prevailing economic structure will not only create avenues for diminishing reliance on energy imports but also open up prospects for augmenting exports, with a specific focus on clean fuels.

The country is competently positioned to achieve low Levelized Cost of Hydrogen (LCOH) of green hydrogen in coastal areas due to abundance of renewable energy (Solar PV + Wind) and low cost of production. The primary challenge of developing a hydrogen market is its capital and energy intensiveness, which can be addressed by defining robust frameworks and policy structures that instigate its role for decarbonization and energy independence. Eventually, the global push for decarbonization will result in widespread adoption across all nations including Pakistan at an accelerated pace to achieve the desired economies of scale.

**Purpose:** This hybrid seminar presents an opportunity to gather insights from international and national industry experts and officials on how to envision a sustainable future for green hydrogen in Pakistan and beyond, encompassing net-zero industries, sustainable agriculture, and energy independence. Renewables First will also present its working paper on green hydrogen aimed at supporting the development of a roadmap for the green hydrogen strategy.



## Agenda:

<b>14:00 PM – 14:10 PM</b>	<p>Welcome remarks</p> <p>Launch of 'Insights on Green Hydrogen for Pakistan'</p>	<p>Afaf Ali – Associate (Industrial Decarbonization) Renewables First</p>
<b>14:10 PM - 14:20 PM</b>	<p>Presentation - Green Hydrogen's role in future Net Zero Scenarios</p>	<p>Putra Adhiguna – Managing Director, Energy Shift Institute, Indonesia</p>
<b>14:20 PM - 14:30 PM</b>	<p>Presentation - Green ammonia solidifies the case of hydrogen for food security and energy independence</p>	<p>Caroline Paul – Project Officer, Agora Industry, Germany</p> <p>Muhammad Basit Ghauri – Manager Research and Networks, Renewables First</p>
<b>14:30 PM – 15:10 PM</b>	<p>Panel Discussion - Navigating the Green Hydrogen Landscape: Insights for Pakistan</p> <p>Round - 1: Crafting a Successful Green Hydrogen Strategy: Setting the Vision and Policy Frameworks</p> <p>Round - 2: Innovation and investments: Building the green hydrogen ecosystem</p>	<p>Moderator: Mustafa Amjad – Director Programs, Renewables First</p> <p>Round - 1 Panelists</p> <p>Inayat Ullah Qureshi– Chief EF&amp;E Energy Wing, Ministry of Planning, Development and Special initiatives, Pakistan</p>
<b>15:10 PM - 15:25 PM</b>	<p>Open discussion: Q/A session</p>	<p>Dr. Sardar Mohazzam – Managing Director, NEECA, Pakistan</p> <p>Round - 2</p> <p>Panelist: Naheed Memon– CEO, Oracle Power, United Kingdom</p>
<b>15:25 PM - 15.30 PM</b>	<p>Thank you note and key takeaways</p>	<p>Muhammad Basit Ghauri – Manager Research and Networks, Renewables First</p>