

Hydrogen Market Fundamentals

Hydrogen markets are evolving in line with the global transition towards cleaner energy sources, and there is growing interest in hydrogen as a potential alternative to traditional fossil fuels. However, challenges and uncertainties exist related to its role in the energy mix and its potential to contribute to decarbonization efforts.

1. The Hydrogen Economy
 - Different types of hydrogen
 - Hydrogen production pathways
 - Hydrogen's complementary role
 - Advantages & limitations of the hydrogen economy
2. Hydrogen Market & Demand
 - Supply / Demand
 - Critical points
 - Required infrastructure and its effect on market and demand.
 - Requirements and barriers
3. Effect of the Hydrogen Market on Other Industry
 - The big-three-W on the hydrogen market
 - Hydrogen market and other industries
 - Hydrogen and manufacturing
4. Technology Status & Costs
 - Security, Affordability, and Trends
 - Relevance of projects
 - Moving from hydrogen colors to carbon intensity
5. Ammonia
6. Policy Drivers
7. Outlook: How will Hydrogen Markets Evolve?
 - Trends
 - Major How fast can hydrogen scale?
 - Hydrogen shift: Essential Considerations
 - Leveraging opportunities
 - How will hydrogen change the market?



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LNG and Low Carbon Fuels Market Fundamentals

This course provides a fundamental understanding of how the global LNG markets are structured and priced, and how low carbon fuels will increasingly play an important role in decarbonising selected parts of the energy system transitioning away from fossil fuels

1. Energy Transition
 - What is energy transition? What are the energy transition drivers? Climate scenarios: The future of energy
2. Emissions
 - Carbon and methane intensities
3. LNG Market Overview
 - Overview of the LNG supply chain
 - Global LNG demand growth outlook
 - New supply projects capacities
 - Profiles of key and emerging LNG stakeholders, and their challenges.
4. LNG pricing
 - Commercial contracts and pricing formula mechanisms
5. LNG Shipping
 - How global LNG trade works
 - Shipping from a trade perspective: fleet size, development, shipping cost, charter rates
6. Hydrogen
 - Production and use of hydrogen
 - Hydrogen derived low carbon fuels
7. Biofuels
 - Supply, demand and outlook



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