



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



GLOBAL PROGRAMME
HYDROGEN IN INDUSTRY

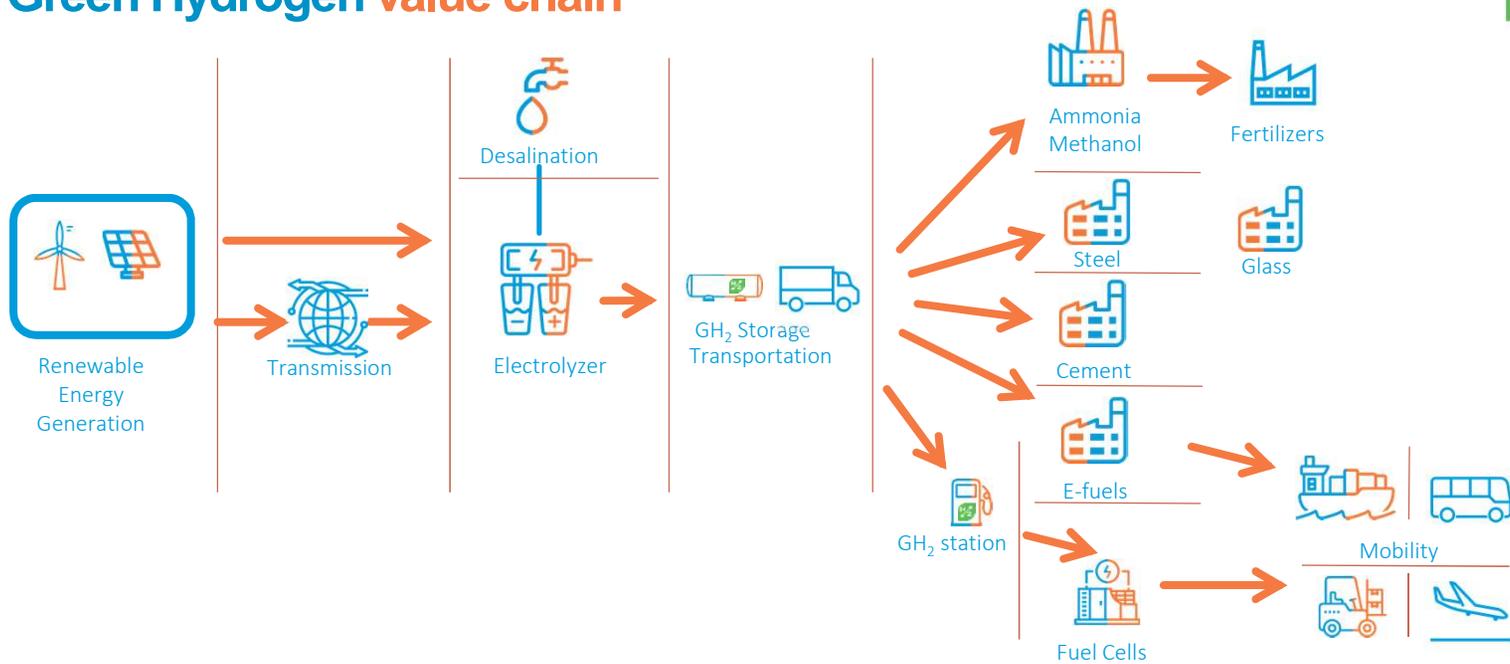
Green Hydrogen and Industrialization Nexus

➤➤➤ Driving net zero industrial development and wealth generation in developing countries





Green Hydrogen value chain





Hydrogen: Opportunities for developing countries



Renewable hydrogen or green hydrogen (produced from renewable energy) creates unique opportunities for a **net zero industrial development in the Global South.**

Hydrogen costs from hybrid solar PV and onshore wind systems in the long term



Source: IEA (2019), *The Future of Hydrogen*, IEA, Paris

Opportunities:



Jobs creation



Skills upgrading



Investment mobilisation



Wealth generation



Energy security



Resilience



Diversified economy





Challenges hindering the potential of Green Hydrogen

- 1 **Conducive policies and regulations** for promoting a hydrogen ecosystem to underpin investor and market confidence and accelerate hydrogen projects;
- 2 **Appropriate standards** to facilitate global trade and drive the offtake of green hydrogen;
- 3 **Financial instruments** to incentivize investments in hydrogen projects;
- 4 **Skills and know-how** to boost resilient and sustainable industrialization based on hydrogen;
- 5 **Accessible and affordable innovation** of hydrogen technology, systems, equipment and infrastructure;
- 6 **Co-ordination** among key stakeholders at the national, regional and global level to effectively resolve the bottlenecks identified.





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Providing solutions: The Global Programme for Hydrogen in Industry

UNIDO launched its Global Programme to help developing countries overcome identified barriers and to support a **just hydrogen transition** that puts social and environmental aspects in focus.

WHAT ARE OUR KEY AREAS OF INTERVENTION?



Policies



Standards



Financial
instruments



Skills



Innovation



Coordination





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THANK YOU FOR YOUR ATTENTION!



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