HYDROGEN – SCALING UP
FOR CLEAN AIR, ENERGY SECURITY & JOBS

DEVELOPING A REGULATORY FRAMEWORK & FUNDING SCHEMES THROUGH INTERNATIONAL MULTILATERAL COLLABORATION

Hydrogen Council

WHY HYDROGEN?

- To deliver on Paris Agreement commitments and reduce CO_2 emissions by 60% by 2050, governments need to change their energy and transport systems while maintaining strong, competitive economies.
- Hydrogen offers clean, safe and ready-to-deploy solutions capable of helping solar, wind and other energy sources work together and keeping our systems operating smoothly, securely and with low emissions.
- Hydrogen's potential has been widely recognized and leading geographies are moving to seize the opportunity. To ensure large scale deployment, multilateral international collaboration between governments, industry and financial players will be required.

THE WORLD IS MOVING...

China plans to put in place 300 hydrogen refueling stations by 2025 and 1,000 by 2030. This infrastructure will support 50,000 fuel cell electric cars by 2025, expanding to one million by 2030.

Tokyo's governor has designated hydrogen as the "energy star" of the 2020 Olympics - with the Olympic Village powered by fuel cells and athletes shuttled throughout the games by hydrogen-powered vehicles.

Creating net-zero industrial value chains in Carbon2Chem®, thyssenkrupp and other industrial partners demonstrate how to convert carbon-rich offgases of a steel plant to green chemical products by using electrolysis and chemical synthesis technologies.

California is nurturing deployment of fuel cell electric vehicles and associated infrastructure through its ZEV Regulation and co-funding of hydrogen refueling stations.

Cities are excited about hydrogen. The H21 Leeds City Gate pilot project is converting the entire city's heating grid to 100% hydrogen, testing a concept that could eventually span the entire UK.

Hydrogen's energy density makes it perfect for long distance transport and heavy loads. Alstom's Coradia iLint is the world's first hydrogen passenger train: a greener, quieter alternative already operational in Germany.

WHAT ROLE CAN YOU PLAY?

Policymakers are at the center of this transition. You hold the power to exponentially scale up hydrogen solutions and deliver benefits to your citizens – clean air, energy security, lower cost and new jobs.

The industry needs a clear and stable **regulatory environment and a level playing field** for all technologies. The measures you put in place give a signal to investors to get involved, boosting economic growth and competitiveness as a result.

Help unlock hydrogen's potential and harness the benefits of the next big thing in clean energy. The industry has developed a **concrete roadmap** to show how to get there. Read it and join the hydrogen revolution!

WHAT COULD HYDROGEN DO FOR YOU?

AIM HIGH. BECAUSE THE HYDROGEN FUTURE IS HERE, AND IT IS READY TO SCALE UP.

GET IN TOUCH!

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