

3rd Multilateral Assessment Working Group Session of the 5th cycle of the International Assessment and Review (IAR) cycle at SBI61/COP29 in Baku, Azerbaijan (16 Nov 2024)

Response from Luxembourg to the question on Luxembourg's hydrogen strategy raised by New Zealand

Luxembourg is actively implementing its [hydrogen strategy](#) through several key initiatives:

- **Hydrogen Valley Project (LuxHyVal):** Launched in June 2024, LuxHyVal aims to produce green hydrogen in Bascharage by 2026. This project has secured European funding from HorizonEurope and involves 17 partners from seven countries and focuses on the decarbonization of industrial hydrogen consumption using 100% renewable electricity.
- **Demonstration Projects for Renewable Hydrogen Production:** In October 2024, the Ministry of the Economy launched a [call for projects](#) to promote domestic renewable hydrogen production. With a budget of €110 million, the aim is to install around 12 MW of electrolysis capacity. The deadline for applications is 15 February 2025.
- **Preparing for an interconnected H2 grid to enable the import and transit of competitive climate-friendly hydrogen:**
 - **Participation in the North Seas Energy Cooperation (NSEC):** Established in 2016, NSEC facilitates the cost-effective deployment of offshore renewable energy and promotes interconnection between North Sea countries. Luxembourg's participation supports the integration of renewable hydrogen into the energy system.
 - **Participation in the Pentalateral Energy Forum:** Luxembourg works with Belgium, Germany, the Netherlands, France, Austria, and Switzerland to promote regional energy integration. The Forum focuses on risk preparedness, electricity market design, but also on accelerating the energy transition by removing cross-border barriers and by using hydrogen.
 - **Cross-Border Cooperation in the Greater Region and between the Benelux countries:** Luxembourg is working with neighbouring regions to develop a [forward-looking hydrogen infrastructure](#) and liquid market, aiming at a 100% renewable hydrogen vision.
- **Research and Innovation Initiatives:** The University of Luxembourg has recently established a Paul-Wurth Chair in the Department of Engineering in the Faculty of Science. This chair coordinates research projects such as LuxHyVal, focused on promoting hydrogen deployment and driving sustainable energy solutions and conducts basic and applied research.
- **Development of Legal and Regulatory Frameworks:** Luxembourg contributes to the definition of legal and regulatory frameworks for hydrogen at EU-level, ensuring alignment with national strategies and facilitating cross-border cooperation.