



What is the RD opportunity in energy?

Bioenergy

Ukraine: A Key Player in Agricultural Bioenergy

- **Biomethane Potential:** With agricultural waste as the primary raw material, Ukraine has an estimated potential to produce 8-10 billion m³ of biomethane annually.
- **Recent Developments:**
 - **Pre-2023:** No biomethane production in Ukraine.
 - **Present:** Four enterprises now capable of producing nearly 10 million m³ of biomethane per year.
- **Future Expansion:**
 - **2024-2025:** 10 new facilities planned, each with a capacity of 1.5 million m³ per year.
- **Market Interest:**
 - **Agricultural Holdings:** Approximately 30 considering entering the biomethane market.



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Hydrogen

Ukraine's Vision for a Hydrogen-Powered Future

- **Hydrogen Strategy:** Ukraine has introduced a comprehensive Hydrogen Strategy extending to 2050, currently undergoing adoption procedures.
- **Export Goals:** Plans to export at least 1.5 million tons of renewable hydrogen to the European Union by 2030.
- **Infrastructure Development:**
 - **Central European Hydrogen Corridor:** A key component of the strategy, set to obtain PCI/PMI status within the EU by the end of 2023.
 - **Certain business feasibility studies secure investments.**
- **Decarbonization Role:** Highlights hydrogen as a pivotal technology for decarbonizing hard-to-abate sectors.



**Ukraine Recovery
Conference**
11-12 June 2024 – Berlin, Germany 

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Renewable Energy Localization of production

Ukraine's Global Integration in Renewable Energy Supply Chains

- **Wind Energy Localization:** Specialized associations project that localization levels in wind energy could reach 20%.
- **Solar Panel Processing:** Essential to establish domestic processing capabilities for the disposal of solar panels, which will begin deteriorating around 2030.
- **Achieving Goals:**
 - **Technology Transfer:** From the EU to Ukraine, potentially reshoring processes from China.
 - **Joint Ventures:** Establishing partnerships to enhance capabilities.
 - **Workforce Training:** Development of training programs and R&D centers within production facilities.



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What are obstacles to future proof investments today?

Analysis of Educational Specializations in Ukraine

- Among over 700 specializations for bachelor's and master's degrees, I found **only one related to "Non-traditional and Renewable Energy Sources"** and one in **"Energy Management"**.
- There **are 0 specializations focusing on hydrogen and its derivatives** in the energy consumption sector.
- Most specializations in Ukrainian universities pertain to traditional energy sources: oil, gas, and thermal power plants.

***Data from content analysis of the REGISTER OF SUBJECTS OF EDUCATIONAL ACTIVITY LICENSED SPECIALIZATIONS as of June 5, 2024, in Ukraine.**