Main cleantech value chain risks from an EU perspective

→ Fig. 6

Solar PV	Wind (on-/offshore)	Electrolysers	Heat pumps	Batteries
Market dominance of China along the entire supply chain, low starting point in EU Limited production of pre-components Profitability and competitiveness of production	Profitability of the sector Single supplier dependence on critical raw materials and components (permanent magnets) Increasing competition from China	Market uncertainty Production competitiveness in the established alkaline sector Reliance on critical raw materials with limited sources	Installation bottlenecks Market and demand uncertainty given volatile regulatory environment Low economies of scale compared to competitors	Sourcing of raw and processed input materials Market dominance of Asian industry leaders

Agora Energiewende and Agora Industry (2023): Ensuring resilience in Europe's Energy Transition: The role of EU clean-tech manufacturing.