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Great energy transitions occur when innovations and technological developments align with society's needs¹⁹. While figuring out the correct path to establishing a future decarbonised and decentralised energy grid, fundamental modifications should take place to create fruitful soil for new technologies. Reforming the foundations of the five pillars of the energy sector is necessary for REVs to manifest their capabilities.

Even though new methods emerge from the requirements of voids in every science, obstacles exist in the current status quo that refrain them from flourishing. In the case of REVs, the current social practices, technology adoption and organizational and business models are not sufficiently mature to enable them scaling up and replicating. Challenges and barriers exist, that are preventing the full deployment of local or regional renewable energy system solutions for electricity, heat and fuel needs in the following three dimensions.

From a business standpoint, the industry is lacking in providing models based on sharing economy and social innovation. At the moment various conceptual models are being tested around the globe, on innovative ways to modernize the energy market^{32,33,34}. But still the political and regulatory environment must develop frameworks, guaranteeing the necessary conditions for citizens to transition to a more prosumer centric system and in concurrence with the undergoing electricity market design reform³⁵.

Contact us for free full report

Web: <https://www.hollanddutchtours.nl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

