

Future renewable energy technology

The renewable energy market is changing thanks to falling prices and increased demand for cleaner energy sources. Here are five technologies that will impact the industry in the near future.

The emergence of renewable energy has revolutionised world markets, and renewables-driven change continues with unprecedented speed. Even several years ago, few would have guessed the scope of the new technologies that have been developed to help countries begin the process of de-carbonising their economies or predicted that household names like Google would be investing large sums in solar energy projects.

Some of these changes have been gradual, some sudden. Others are only just beginning, and their significance is not yet widely understood. Here's a look at five of the most important trends and technologies in renewable energy – some have radically re-shaped the energy market over the last decade, while others are set to make waves in the years to come.

It is wind turbines and solar panels that represent, for most people, the onward march of renewable energy. The two power sources are visible in many rural landscapes and have transformed the market.

Experts agree that the advance of electrification in the coming decades will super-charge the shift to renewables. The renewables-based electrification of European industry, buildings, and transport will allow the continent to reduce its energy-related carbon dioxide emissions by 90 percent by 2050, according to some predictions.

The potential of energy storage to accelerate the shift to renewables has been widely discussed in scientific circles and looks set to be key in the years to come. "Energy storage will be needed in the system due to variable wind and solar production," explains Laaksonen. "There are multiple energy storage technologies and the skill is to combine them in a system."

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Web: <https://sumthingtasty.co.za/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

