



# Solutions to renewable energy

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How can we harness the energy that commuters produce while travelling to work? Or the energy that coastal blowholes generate, or even that produced by playing an interactive computer game?

The World Economic Forum's recent Fostering Effective Energy Transition report highlights how thousands of entrepreneurs are looking at ever-more innovative ways of generating clean energy, as the world looks to reach net zero emissions by 2050.

The modular panels can be attached to the facades of almost any building - either residential, commercial or industrial. The panels can move to provide adaptive shading, and solar tracking, reducing the need for cooling, heating and even artificial lighting.

An accompanying control system optimizes all processes, adapting to the energy demands of the building and its occupants, creating a pleasant environment, which in turn, brings well-being and productivity benefits.

The start-up has this year completed a fundraising initiative for its Solskin product, which has already been awarded several accolades. The system will be available to buy from the third quarter of 2023.

The Fostering Effective Energy Transition 2024 report showed that after a decade of progress, the global energy transition has plateaued amid the global energy crisis and geopolitical volatilities.

The World Economic Forum's Centre for Energy and Materials is driving the transition to a "fit for 2050" energy system. It is a cross-industry platform building new coalitions and delivering insights required for a sustainable, secure and just energy future.

From a train station in Paris to Victoria train station in London - the source of Pavegen CEO Laurence Kembell-Cook's initial idea for a kinetic floor tile that harnesses human energy for off-grid electricity.

Tiles produced by Pavegen are stepped on by people. Their weight causes a rotational movement of an induction generator beneath the surface, creating clean electrical energy then stored in batteries to be used elsewhere. Just one step can create enough energy to light an LED lightbulb for around 20 seconds.

The technology can utilize the energy commuters generate getting to work, but it can also be used as a fun toy, while still generating valuable clean energy. At a recent tennis tournament in Melbourne, Australia, players competed in an interactive tennis game to generate the most electricity, which was used to help charge the tournament's official fleet.

Nuclear energy produces zero carbon emissions, but has not been considered a clean energy thanks to waste.



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Uranium, the main fuel for nuclear fission plants, needs to be stored indefinitely, as it takes thousands of years to reduce its radioactivity. But one company is manufacturing nuclear fuel for its next-generation reactors made from existing waste produced by traditional reactors.

The company is currently developing lead-cooled fast nuclear reactors and plants to manufacture fuel from nuclear waste, all of which adds to energy security and decarbonization efforts.

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

Email: [energystorage2000@gmail.com](mailto:energystorage2000@gmail.com)

WhatsApp: 8613816583346

