# Energy storage straight soft

Could a flexible self-charging system be a solution for energy storage?
Considering these factors,a flexible self-charging system that can harvest energy from the ambient environment and simultaneously charge energy-storage devices without needing an external electrical power source would be a promising solution.

What is a fibre-like energy-storage device?
Fibre-like energy-storage devices can be achieved using coaxial or twisted fibres to enable flexibility and stretchability. An intrinsically stretchable device differs from the other types by using individual stretchable components,which offers the greatest manufacturing compatibility. Panel e is reprinted with permission from ref. 65,Wiley.

Which two-dimensional materials are used in energy storage devices?
Two-dimensional materials such as layered transition-metal dichalcogenides,carbides,nitrides,oxides and graphene-based materialshave enabled very thin active electrodes with high energy density and excellent cyclability for flexible energy-storage devices.

Can power-source integration be used in soft electronics?
We consider exemplary applications of power-source integration in soft electronics. Finally, we provide an overview of the emerging challenges, strategies and opportunities for research and development of flexible self-charging power sources.

Why do we need energy storage units?
To utilize such abundant,intermittent and randomly distributed energy sources,compatible energy-storage units that convert the harvested electricity into electrochemical energy and output electricity for consumption are indispensable for power stability and sustainability.

Are magnetically self-assembled soft heat conductors suitable for self-powered wearable electronics?
Lee, B. et al. High-performance compliant thermoelectric generators with magnetically self-assembled soft heat conductors for self-powered wearable electronics. Nat. Commun. 11, 5948 (2020).

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