401 switch has no energy storage

How do you store electrical energy in a low-voltage circuit?
To store electrical energy for low-voltage electronics,a specific conditioning circuit should include an AC-to-DC converter and a DC stabilization module. Basic conditioning strategies use full-wave (FW) or half-wave (HW) diode-bridge rectifiers to charge a large capacitor to a DC voltage.

Can autonomous switches improve energy management for low-voltage applications?
Efficient energy management of the generated high-voltage for practical low-voltage applicationsis still under investigation. Autonomous switchesare key elements for improving the harvested energy per mechanical cycle,but they are complicated to implement at such high voltages.

How does using a MEMS switch improve energy harvesters?
The employment of the MEMS switch in the conditioning circuits can significantly push forward the practical and commercial applications of the energy harvesters by largely improving the systematic performance.

How can the ON voltage of the MEMS switch be increased?
To increase the ON voltage of the MEMS switch,we can have more diodes in series and increase the gap to tens of or even one-hundred micrometers. This approach can help to achieve a ~kV ON voltage. However,there is still a large space to further improve the performances of the circuit.

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