

**Energy harvesting via wetting/drying cycles with nanoporous electrodes**

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Conversion, transportation and end-use processes result in massive amounts of energy waste in the form of low-grade heat. Existing technologies for conversion of low-grade waste heat into electricity are expensive. The EU-funded EHAWEDRY project proposes an innovative conversion concept that relies on coupling charging/discharging cycles of electrochemical supercapacitors with the drying/wetting of their nanoporous electrodes. The concept exploits the proportionality of the capacitor capacity to its electrode/electrolyte contact area.

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