

Electrochemical Energy Storage

Conventional batteries rely on the electronic properties of various chemicals in order to store electrical energy, and release it when needed.

[Use pennies to generate small amounts of power](#)

[This tutorial](#) covers how to use batteries and a few other commonly available products to make a battery that can run small things like calculators or LEDs, and can be scaled up, depending on your needs.

[Non-toxic, biodegradable batteries](#)

[This battery](#) could be used to power medical devices within a patients body, or to power environmental monitoring equipment without endangering the environment.

[Plant-based supercapacitor technology](#)

Battery capacity and speed of charging are big limitations for electricity storage. Supercapacitors enable rapid charging, but are expensive to produce. This research team at Oregon State University is developing a way to make cheap [supercapacitors out of plant cellulose](#).

[« Back to Promising Ideas](#)