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When electric current flows through a material with finite conductivity, electrical energy is converted to heat. Joule's first law states that the heat generated by such a material is proportional to the product of its ohmic resistance and the square of the current.

Swanson's law is the observation that the price of solar photovoltaic modules tends to drop 20% for every doubling of cumulative shipped volume [13]. It is important to note that Swanson's law does not address the other costs such as labour costs and equipment costs.

It is defined as the current through the battery divided by the theoretical current draw under which the battery would deliver its nominal rated capacity in 1 h. The capacity of a battery is commonly rated at 1C, meaning that a fully charged battery rated at 1Ah should provide 1 A for 1 hour. The same battery discharging at 0.5 C should provide 500 mA for 2 hours, and at 2 C it delivers 2 A for 30 min.

A few illustrative ones are direct load control (DLC), interruptible/curtailable (I/C) service, demand bidding/buyback (DB), emergency demand response programmes (EDRP), capacity market programmes (CMP) and ancillary services market programmes (ASMP).

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Policies and ethics

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sri

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

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

WhatsApp: 8613816583346

