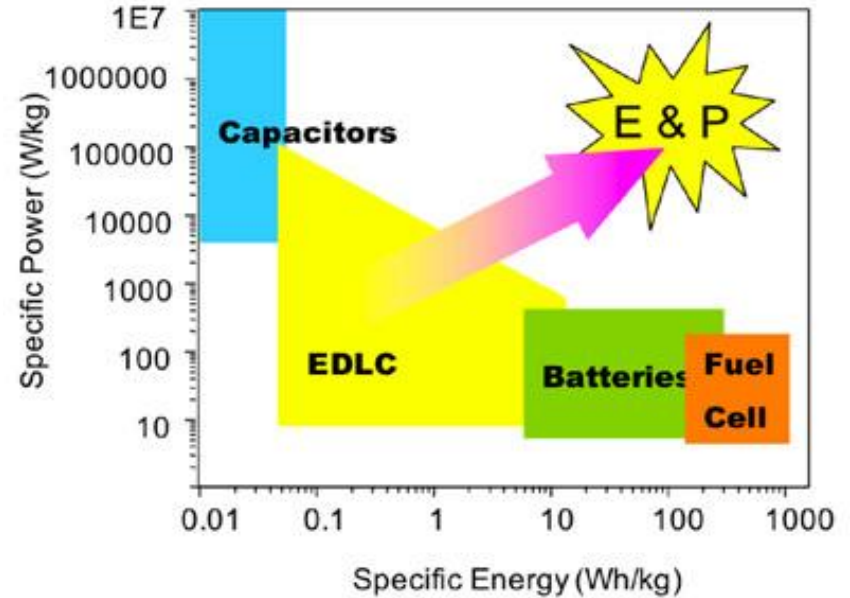


Electrochemical energy storage devices

Supercapacitors are significantly higher than the battery power output to the load, can withstand more than 1,000,000 cycles of charge/discharge, operate in a wide temperature range and do not require maintenance during operation.



Comparative characteristics

	Batteries	Supercapacitors	Capacitors
Charge times	hours	ms – min	micros – ms
Discharge times	minutes – months	ms – min	micros – ms
Life cycles	500 – 2000	1 000 000	1 000 000
Specific energy (W·h/kg)	10 – 300	0,1 – 20	< 0.1
Specific power (W/kg)	< 500	1000 – 6000	> 10 000
Working range t, C°	-40 - +60	-60 -+85	-40 - +60

Carbon Electric