

**Grupo de Trabajo de Almacenamiento de Energía
Consejo Consultivo de la Transición Energética**

Primera Sesión - Centro de Capacitación en Calidad de la Secretaría de Energía
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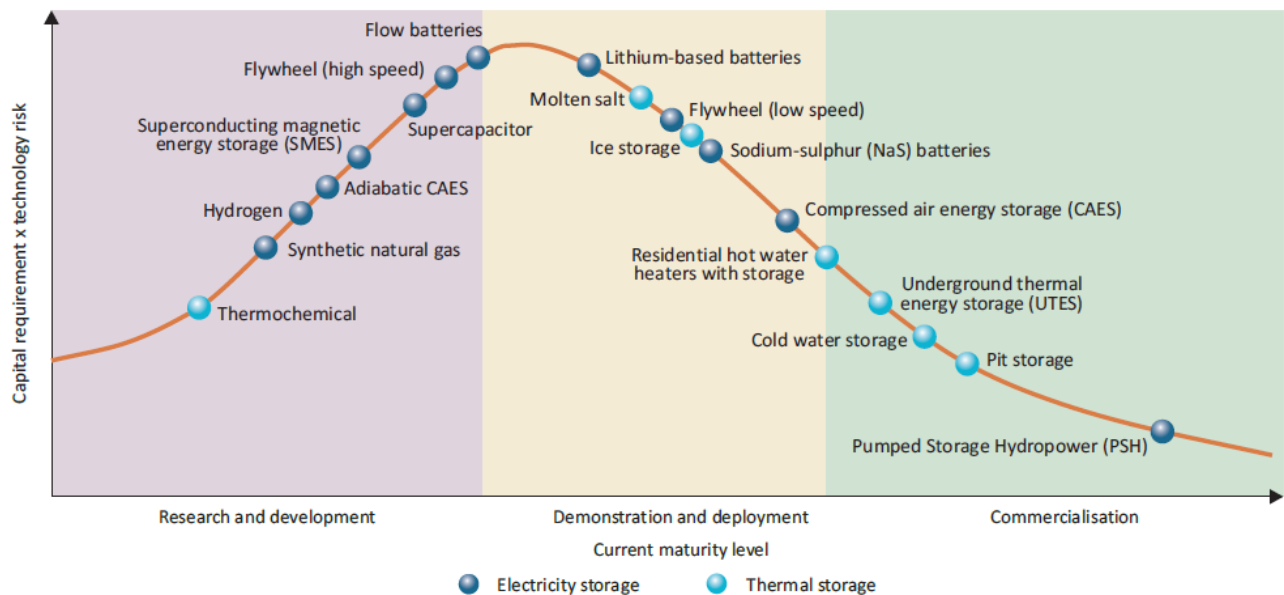
Electro-chemical	Supercapacitors	Nanoionic Supercapacitor Ultracapacitors
	Electro-chemical Capacitor	Electro-chemical Capacitor
	Flow -battery	Hybrid Flow Battery Hydrogen Bromine Flow Battery Iron-chromium Flow Battery Membrane less Flow Battery Metal hydride Flow Battery Nano-network Flow Battery Organic Flow Battery Vanadium Redox Flow Battery Zinc-nickel Oxide Flow Battery Zinc Iron Flow Battery Zinc Bromine Flow Battery Flow Battery
	Lead-acid battery	Advanced Lead-acid Battery Valve Regulated Lead-acid Battery Lead-acid Battery Hybrid Lead-acid Battery/Electro-chemical capacitor Lead Carbon Battery
	Lithium-ion battery	Lithium Ion Titanate Battery Lithium Iron Phosphate Battery Lithium Manganese Oxide Battery Lithium Nickel Cobalt Aluminum Battery Lithium Nickel Manganese Cobalt Battery Lithium Polymer Battery Lithium-ion Battery Lithium-titanate

Electro-chemical	Metal-air battery	Zinc Air Battery
	Nickel based battery	Nickel Iron Battery Nickel-cadmium Battery Nickel Metal Hydride Battery
	Sodium based battery	Sodium based Battery Sodium-ion Battery Sodium-nickel-chloride Battery molten salt Sodium-sulphur (NAS) molten salt
	Other	Advanced Li-ion batteries Deep-cycle lead acid batteries New electrochemical couples Zinc Manganese Dioxide Battery
Electric	Electromagnetic storage	Electromagnetic storage
Electro mechanic	Compressed air storage	In-ground Compressed Air Storage In-ground Natural Gas Combustion Compressed Air In-ground Iso-thermal Compressed Air Modular Iso-thermal Compressed Air Modular Compressed Air Storage
	Flywheel	Speed (low, high) High-power Long-duration
	Gravitational storage	Gravitational Storage
	Others	Adiabatic Compressed Air Storage
Hydrogen storage	Hydrogen storage	Hydrogen Storage
Hydro storage	Open loop	Open-loop Pumped Hydro Storage Seawater Open-loop Pumped Hydro Storage
	Closed loop	Closed-loop Pumped Hydro Storage
	Others	Pumped Hydro Storage

Thermal storage	Chilled	Chilled Water Thermal Storage
	Heat	Sensible
		Latent
		Thermochemical Heat Storage
	Ice	Ice Thermal Storage
Molten salt	Molten Salt Thermal Storage	
Others	Pit storage	
	Concrete Thermal Storage Residential hot water heaters with storage	
Chemical	Fuel cells	Hydrogen
		Alkaline
Proton exchange membrane		
Solid oxide		
	Power to gas	Power to gas
Magnetic	Superconducting Magnetic Energy Storage	Superconducting Magnetic Energy Storage

Fuente: elaboración propia con datos de DOE Global Energy Storage Database, IEA e IRENA.

Estado de las tecnologías



Fuente: IEA, 2014.