



# Energy Storage Systems Rui Costa Neto, PhD Eng. R&D Instituto Superior Técnico / IN+ Center for Innovation, Technology and Policy Research (IST/IN+)

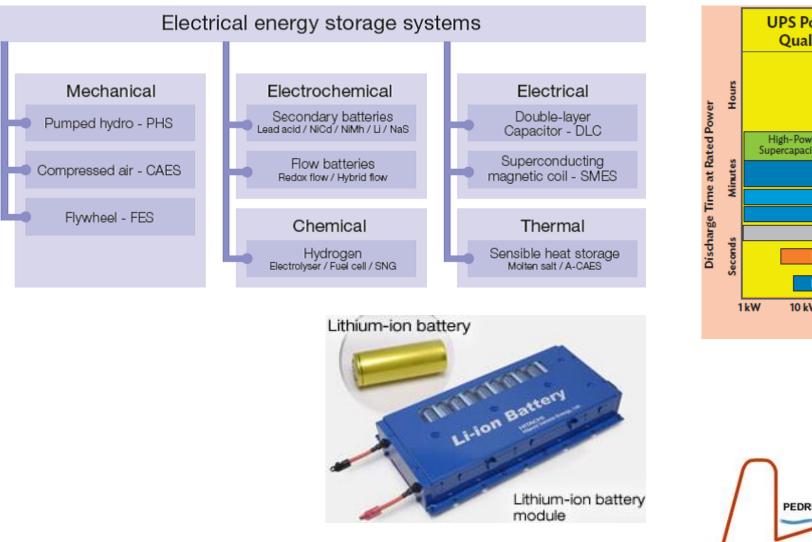
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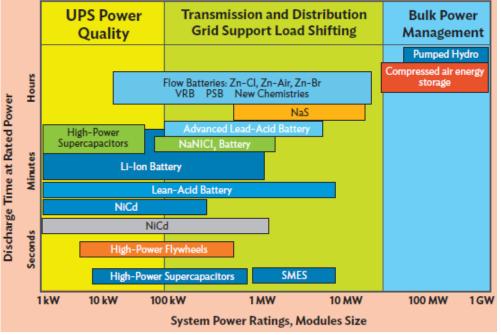
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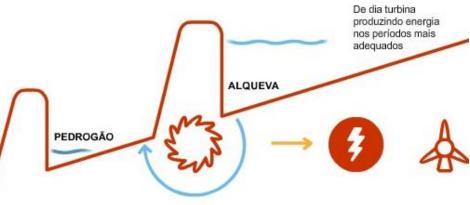
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### **Electrical and Thermal Energy Storage Systems**



#### **Energy Storage Technologies -**Discharge Time, Application, and Power Rating



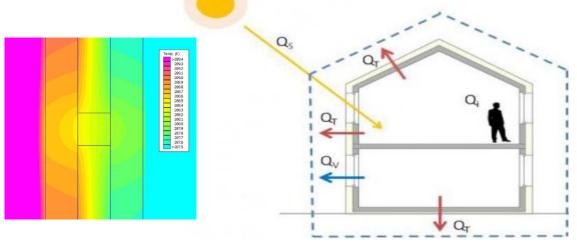


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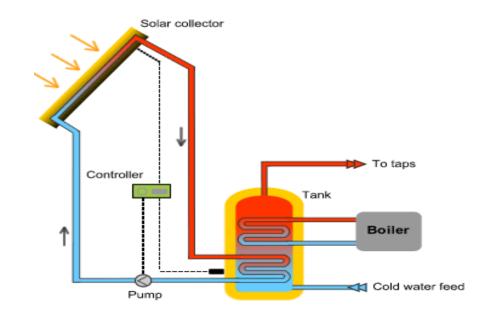
#### **Renewable Energies for Hydrogen and Fuel Cells**

#### renewable non-renewable resources resources Well-to-Tank Analysis <u>n</u> Electr wind conventional power station (coal, gas, nuclear, oil) Water compressio electricity electrolysis dispenser Reforming steam reformer purification Ε natural gas Tank-to-Wheel Analysis

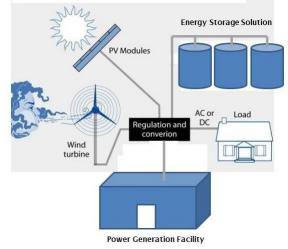
# Energy Storage and Auditing in Buildings, Experimental and Simulation



### Thermal Energy Storage System from Renewables



## Power Demand Management Through Energy Storage



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