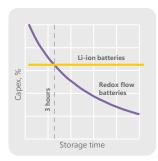
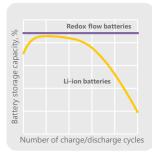
HYBRID ENERGY STORAGE SYSTEM (ESS)



Hybrid energy system (ESS) combines **high output capacity** of Li-ion batteries with **high storage capacity** of vanadium redox flow batteries. Proportion of each is customized for individual project, based on required output capacity and storage requirements.

BALANCING RES OUTPUT • BACKUP POWER AT CONSUMERS SIDE • PEAK SHAVING • 15-20% SAVING ON COST OF STORAGE







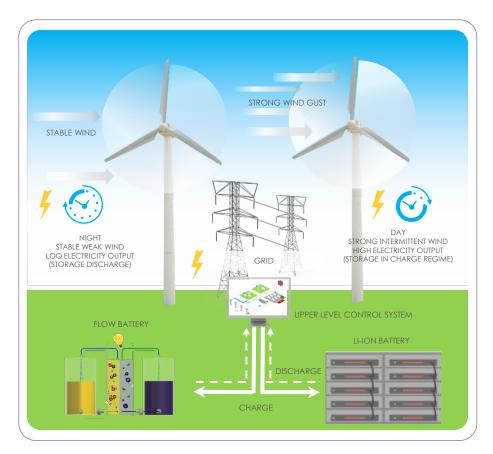
Design, installation and maintenance of **hybrid energy storage systems** based on redox flow and lithium-ion batteries in containerized version.



Increase storage capacity and cyclic life of existing ESSs based on vanadium redox flow batteries



Vanadium electrolyte "made in Russia". Electrolyte cost is 50% of overall redox flow batteries cost.



EXPERTISE IN ELECTROCHEMISTRY

InEnergy Group core competence lies in electrochemical solutions. We employ more than 60 researchers, including 15 with PhD degrees.



APPLICATIONS



Grid storage system

- Peak shaving
- Primary and secondary system reserve
- Frequency regulation



Industry

- Backup power supply
- Price arbitrage
- Reduced capacity payment
- Increased supply reliability
- Increased peak capacity, available for consumption



Standalone systems

- Enabling dynamic and static stability
- Balancing output and consumption
- · Managing reactive power



Households

- Backup power supply
- Balancing RES output
- Price arbitrage