



VASCO DA GAMA COLAB INNOVATION FOR A BETTER WORLD

SCALABLE ENERGY STORAGE **TECHNOLOGY INNOVATION**





































VASCO DA GAMA COLAB — ENERGY STORAGE

Vasco da Gama CoLAB (VG CoLAB) was established in 2019 as a collaborative laboratory, recognised by FCT (Foundation for Science and Technology) and supported by ANI (National Innovation Agency) in Portugal.



VG CoLAB is positioned in the centre of the electrochemical energy storage value chain.

OUR MISSION

We develop value-adding innovative technologies, techniques, and prototypes in scalable energy storage, power conversion, and software (interfaces, configuration and sizing tools).

We accelerate and derisk the technological scale-up and the time-to-market for our associates and ecosystem partners to foster the overall societal effort to facilitate the energy transition.

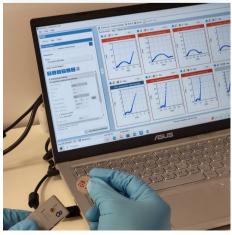
Integration

Hybridisation

Interface

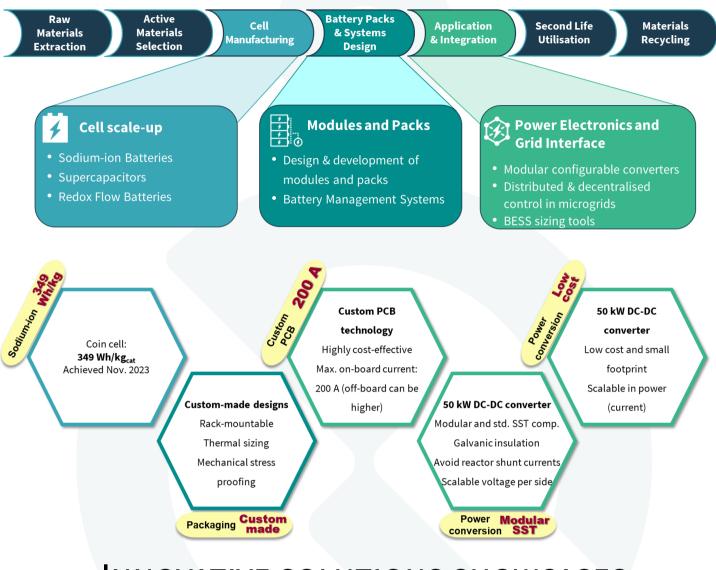
				VG CoL	AB &				
	ACADEMIA							INDUSTRY	
	Research activities			Prototyping activities			Industrialisation		
TRL1	TRL 2	TRL3	TRL4	TRL5	TRL 6	TRL7	TRL8	TRL9	



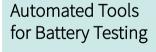




VG COLAB POSITIONING IN THE VALUE CHAIN



INNOVATIVE SOLUTIONS SHOWCASES

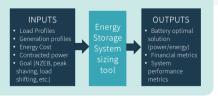




Battery Scale-up: Optimisation of Materials and Processes



Sizing Tools for BESS



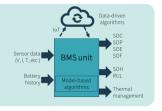
Hybrid Energy Storage Systems



Tailor-made Modular Converters for Advanced Applications



Cell-Agnostic Battery Management Systems



COME AND NAVIGATE WITH US!

Join VG CoLAB to drive progress and innovation towards providing technical and business energy storage solutions for a sustainable energy transition.

SPECIFIC COLLABORATION OPPORTUNITIES FOR ASSOCIATES AND PARTNERS

R&D and Technology Transfer:

- Collaborative R&D projects
- Prototype incubation & dev.
- Market intelligence services

Business Support and Networking:

- Scientific and supply chain partnerships
- Market access support
- Business networking events/workshops

Training:

- On-the-job and off-the-job training.
- B2B hiring (hire, train, and transfer)

Services:

- Electrochemical characterisation
- Solution testing and validation
- Pilot testing and pre-SAT support
- Support to innovative regulatory implementation (e.g., battery passport)
- Tailor-made system design

International Collaboration and Regulation:

- Strategic proxy and soundboarding
- Interface to EU relevant stakeholders
- Regulatory compliance support



CONTACT US

Vasco da Gama CoLAB — Energy Storage — Associação Headquarters: Rua Dr. Roberto Frias, s/n, 4200-465 Porto, PT Offices and Electrochemistry labs: PORTIC, Rua Arq. Lobão Vital, nº 172, 4200-374 Porto, PT Power Electronics labs: UPTEC Asprela I, Rua Alfredo Allen n.º 455-461, 4200-135 Porto, PT E-mail: info@vgcolab.com







Main NextGenerationEU / RRP Projects 2024

NGS

New Generation Storage







- Microgrids for EV charging supported by stationary batteries
- Detachable/swapping battery module solutions
- Hybrid energy storage systems: complete packaging, energy conversion and grid-tie solutions

CVB

Battery Value Chain - Portugal







- Scale-up of sodium-ion batteries without toxic or critical raw materials
- Designing and building of a pilot production line, to accelerate battery development in Portugal

Prototypes and Demos 2024



João Paulo Sousa, MSc Business Developer @ VG CoLAB

mail: joao.sousa@vgcolab.com