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**EUROPEAN COMMISSION**

HORIZON 2020 PROGRAMME – TOPIC: Hybridisation of battery systems for stationary energy storage

Interoperable, modular and Smart hybrid energy STORage systeM for stationarY applications

**GRANT AGREEMENT No. 963527**



## **Deliverable Report**

**D3.3 – Power Electronics interface prototype**



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## Publishable summary

Based on the specifications defined in the project, obtained from the results of the system modeling, two modular Power Electronics (PE) interface prototypes have been developed. Both converters will be connected to the batteries developed in WP2 and controlled by the EMS developed in WP4.

The first PE interface offers galvanic isolation and can be paralleled on the AC and DC side. Three of these PE interface prototypes were mounted in a 19" cabinet and will be integrated in WP5 with the high-power battery of WP2.

The second PE interface presents a common DC link, with modularity on the DC/DC and DC/AC conversion sides. This PE interface will be integrated in WP5 with the high-energy battery of WP2.

This document gives an overview of the manufactured prototypes. The results of the PE interface prototypes' testing are described in D3.4

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### Project partners:

#	Partner short name	Partner Full Name
1	VUB	VRIJE UNIVERSITEIT BRUSSEL
2	PWD	POWERDALE
3	CEG	CEGASA ENERGIA S.L.U.
4	CEA	COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
5	MGEP	MONDRAGON GOI ESKOLA POLITEKNIKOA JOSE MARIA ARIZMENDIARRIETA S COOP
6	ZIG	ZIGOR RESEARCH & DEVELOPMENT AIE
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