

EUROPEAN COMMISSION

HORIZON 2020 PROGRAMME - TOPIC H2020-LC-BAT-2019
Affordable High-Performance Green Redox Flow Batteries

GRANT AGREEMENT No. 875613



HIGREEW – Deliverable Report

<< D1.3 – Validation Protocol for Pilot Plant Testing >>

Deliverable No.	HIGREEW D1.3	
Related WP	WP1	
Deliverable Title	Validation Protocol for Pilot Plant Testing	
Deliverable Date	2020-02-28	
Deliverable Type	REPORT	
Dissemination level	Confidential – member only (CO)	
Written By	Eid Maraqah (GAMESA)	2020-02-17
Checked by	David Novak (GAMESA)	2020-02-21
Reviewed by (if applicable)	John Barrans (Heights) David Hall (C-Tech)	2020-02-24 2020-02-27
Approved by	Raquel Ferret (CIce)	2020-02-28
Status	Final	2020-02-28

Disclaimer/ Acknowledgment



Copyright ©, all rights reserved. This document or any part thereof may not be made public or disclosed, copied or otherwise reproduced or used in any form or by any means, without prior permission in writing from the HIGREEW Consortium. Neither the HIGREEW Consortium nor any of its members, their officers, employees or agents shall be liable or responsible, in negligence or otherwise, for any loss, damage or expense whatever sustained by any person as a result of the use, in any manner or form, of any knowledge, information or data contained in this document, or due to any inaccuracy, omission or error therein contained.

All Intellectual Property Rights, know-how and information provided by and/or arising from this document, such as designs, documentation, as well as preparatory material in that regard, is and shall remain the exclusive property of the HIGREEW Consortium and any of its members or its licensors. Nothing contained in this document shall give, or shall be construed as giving, any right, title, ownership, interest, license or any other right in or to any IP, know-how and information.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 875613. The information and views set out in this publication does not necessarily reflect the official opinion of the European Commission. Neither the European Union institutions and bodies nor any person acting on their behalf, may be held responsible for the use which may be made of the information contained therein.

Publishable summary

After the complete HIGREEW battery testing in the UK to be carried out in WP4, it will be shipped with the BOP to the pilot plant “La Plana” in Spain for testing and validation in a real case scenario. La Plana is comprised of various renewable and non-renewable generators, loads and energy storage systems and is governed by a main plant controller (EMS).

Deliverable 1.3 aims to define a testing and validation protocol that would serve as a guide for the different types of tests that will be carried out in WP5. The tests included in this testing protocol are meant to double check the proper functioning of the battery, this time in a real case scenario, in addition to observing its behavior when it is integrated as part of a bigger energy system.

The protocol originates primarily from previous experience of consortium members in testing and validation of energy storage systems and is adjusted for the HIGREEW battery.