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**innovActive ENergy storage systems onboArd
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Deliverable D 1.5

Evaluation framework captured in a testing and
monitoring protocol for WP5

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Public Summary

The objective of this deliverable is to define a testing and monitoring protocol for WP5, including the monitoring framework, a list of parameters to be measured, the list of KPIs and clarifications considering the application of the KPIs.

The work started by the definition of KPIs areas relevant for WP5 based on the proposal. Then, within each area, a number of KPIs were defined collectively starting from D1.2. The KPIs developed relate to ESS characteristics, ESS usage, overall system usage, reliability and safety, scalability, electrical integration and are described in Section 2.

A review of the literature in Section 3 then led to the selection of a number of relevant standards and reports relating to testing of energy storage systems in the maritime and non-maritime sectors. These were used to develop a test protocol for each of the KPIs. The protocols are described in Section 4.

The testing and monitoring plan developed as part of this deliverable will be put in practice for the Testing and Validation WP (WP5).