



TradeRES

New Markets Design & Models for
100% Renewable Power Systems

Performance indicators: quantification of market performance

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1.0	29.11.2021	Confidential	In this report, the key market performance indicators will be defined, together with their respective computation methodology.

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Executive Summary

The present deliverable was developed as part of the research activities of the TradeRES project Task 5.1 – Performance indicators: quantification of market performance.

This report presents the first version of the deliverable 5.1, which provides a list of the (key) market performance indicators (MPIs) that will be used to assess the impact of electricity market designs developed and tested in the TradeRES project. In specific, these indicators will be used in the case studies to assess and quantify the performance of the market designs that were developed in WP3. The foreseen recommendations regarding the evolution of the market design considering a ~100% renewable power system and the dissemination activities will also focus on the performance obtained for the different MPIs.

As a first step to defining the TradeRES' MPIs, internal information was analysed, namely, the objectives and the research questions addressed by the project. To complement this information, several ongoing and completed European projects have been reviewed.

For the definition of MPIs, a template was created. The template comprises basic information such as the name and acronym of the MPI, its calculation methodology and optimal value.

A total of 48 MPIs were identified, and all were classified into four different group domains identified: technical, economic, environmental and social. The goal of such classification is to facilitate filtering and finding the MPIs of particular interest for the reader.