

is run parallel to the real market runs, capable of real-time re-runs of day-ahead auctions.

Further work is scheduled after the start of demonstration to ensure good performance of the auctions. This requires fine-tuning of the capacity allocating algorithm. The objective here is to have stable and short computation times and high precision of optimality and secure runs. Realistic data-based demonstration runs of the clearing software are required, to improve the solution process and to adjust the mathematical model or energy-reserve orders if necessary. The performance of the OPTIM-CAP markets is also going to be analysed with benefit calculation. Results of the market auction will be compared to split energy and balancing capacity market outcome. Market efficiency KPIs will be analysed, whereas recommendations will be provided for modifications which might be needed on the existing market framework in relation to energy, reserve and cross-border transmission right settlement processes to the future co-optimized allocation.

The discussion of the demonstrated market solution will be summarized in the concluding Deliverable 8.5 (*Report on demonstration performance – Pilot 5*). In order to facilitate the replicability of results, a high-level concept will be presented which together with the information about the possible demo benefits, will form one specific input for FARCROSS WP9 to deliver a final evaluation and scalability potential assessment, for policy makers, regulators, IT solution providers and end users.

Last but not least, to promote further research and new market opportunities in the energy industry, FARCROSS will contribute to the development of the subject by ensuring the effective dissemination of the results and identifying the key stakeholders.

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