



International Conference on Renewable Energies and Power Quality
(ICREPQ'25)
Tenerife, Spain, 25 -27 June 2025

Energy storage: the flexible link between generation and demand

By

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The growing share of renewable generation is posing a number of challenges to the operation of power systems and markets. This has sparked the interest of stakeholders to massively deploy electricity storage systems. In this presentation, the most successful energy storage technologies, namely pumped storage and batteries, will be briefly reviewed, including a discussion of their pros and cons. Major application categories will be also surveyed, along with representative examples of recent developments, ranging from utility-scale to behind-the-meter systems. Finally, an outlook for future capacity expansion will be provided.

Short biography of Prof. Dr. José Antonio Gómez Exposito



Antonio Gomez-Exposito is the Endesa Chair Professor at the Department of Electrical Engineering, University of Seville, Spain, which he chaired for twelve years. He has coauthored over 350 publications, including a dozen textbooks and monographs related to Power Systems. He is a Fellow of the IEEE and past editor of IEEE Transactions on Power Systems. Currently, he serves as Vice Editor-in-Chief of the Journal of Modern Power Systems and Clean Energy. He has received several recognitions, including the IEEE/PES Outstanding Power Engineering Educator Award (2019), the Golden Insignia granted by the Spanish Association for the Development of Electrical Engineering (2013) and the Research and Technology Transfer Award, granted by the Government of Andalusia (2011). In 2013 he was elected a member of the Royal Sevillian Academy of Sciences. He co-founded the start-up Ingelectus in 2012 and served on the Board of Managers of the Spanish TSO (REE) from 2018 to 2020.