



# Energy Storage in Power Systems

*Francisco Díaz-González, Andreas Sumper, Oriol Gomis-Bellmunt*

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Over the last century, energy storage systems (ESSs) have continued to evolve and adapt to changing energy requirements and technological advances. *Energy Storage in Power Systems* describes the essential principles needed to understand the role of ESSs in modern electrical power systems, highlighting their application for the grid integration of renewable-based generation.

Key features:

- Defines the basis of electrical power systems, characterized by a high and increasing penetration of renewable-based generation.
- Describes the fundamentals, main characteristics and components of energy storage technologies, with an emphasis on electrical energy storage types.
- Contains real examples depicting the application of energy storage systems in the power system.
- Features case studies with and without solutions on modelling, simulation and optimization techniques.

Although primarily targeted at researchers and senior graduate students, *Energy Storage in Power Systems* is also highly useful to scientists and engineers wanting to gain an introduction to the field of energy storage and more specifically its application to modern power systems.

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