



Pumped-Storage Hydropower Plants

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Message from the Guest Editor

Looking at future grids with increasing shares of intermittent renewable energy solutions, pumped hydro energy storage (PHES) plants are widely recognized as an ideal solution because of their ability to provide large storage capacity with excellent grid connection properties, high cycle efficiency range, and competitive costs. However, in order to provide primary and secondary regulation services, there is a primary need to increase the PHES operational flexibility by developing new machine designs and/or new technologies, as well as by providing hybridization with different types of energy and energy storage systems. To stimulate research areas in these fields, it is important to gather the most relevant ongoing research works on new solutions for PHES (innovative design, innovative control systems, etc.) and on their hybridization with other energy and energy storage systems (sizing algorithm, forecast model, management strategies, virtual power plant, etc.). Therefore, you are kindly invited to share your recent findings in this Special Issue.

