

Webinar

Role of energy storage in the frequency control of power systems with high penetration of renewable generation

16th April 2021 – 11:00-12:30

Prof. Pérez-Díaz will explain the diverse impacts of converter-interfaced renewable generation on the power system's frequency, will describe the system's ancillary services most widely used to deal with these impacts, and will expose how diverse energy storage systems (pumped-hydro, batteries, supercapacitors, flywheels) can contribute to enhance such services. In addition, some novel ancillary services recently implemented so as to cope with the impact of converter-interfaced generation on the system's quality will be briefly introduced.

Join Zoom Meeting

<https://unipd.zoom.us/j/81355248065>

Meeting ID: 813 5524 8065

Bio – prof. J.I. Perez-Diaz

Juan Ignacio Pérez Díaz (UPM) received the MEng and PhD degrees in 2004 and 2008 from UPM, Madrid, Spain, where he worked as Assistant Professor from 2009 to 2011 and non-tenured Associate Professor from 2011 to 2019, and where he works since January 2020 as Associate Professor. In 2014 he was Visiting Professor in the Department of Industrial Engineering of the University of Padova (Italy). His current research interests focus on generation scheduling and control of hydropower plants. He is author of 46 scientific papers in JCR journals and of 50 papers presented in national and international conferences, and has collaborated as a reviewer for 21 JCR journals. He has coordinated and participated in 11 research projects funded under national and international calls, and in 22 contract research projects for public and private companies. He participates in the EERA Joint Programme on Energy Storage since 2012 and in the EERA JP on Hydropower since 2019, and is member of the Scientific Committee of the Norwegian Research Centre for Hydropower Technology (HydroCen) since 2017. He was founding partner of SEG Hidroeléctrica, S.L., subsidiary company of Cuerva since 2016.

