

**PAPER ID 178: Batteries Energy Storage Systems: Review of materials, technologies, performances and challenges**

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Luis Felipe RUIZ SANJUAN received the bachelor's double degree in Mechanical Engineering from Universidad del Norte, Colombia and Industrial Energy Engineering from National Engineering School of Metz (ENIM), France in 2022. In parallel, he completed a master's degree specializing in Management Engineering: Project formulation from IAE School of management Metz, France. Currently, he is working on his doctoral thesis at the Center for Studies and Research in Heat, Environment and Systems (CERTES) and the Management Research Institute (IRG) of the University of Paris-Est Creteil, France. His current interests include energy storage systems, collective and individual self-consumption, microgrids and risks management.