


# 15<sup>th</sup> International Green Energy Conference

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Name	Luisa F. Cabeza	
Affiliation	Universitat de Lleida	
<h2 style="color: red;">Invited Plenary Lecture</h2>		
Presentation Title	<b>Key challenges of thermal energy storage: a dive into the roadmap</b>	
Abstract (Approximately 200 words)	<p>Thermal energy storage (TES) is being recognized as a key technology of the energy transition to support the integration of clean energy sources and enhance the flexibility of energy systems. Main barriers include the low technology readiness (TRL) in some of the emerging technologies, poor knowledge and awareness of TES benefits, and lack of targeted policies. In recent years, research put a lot of effort to overcome those barriers which has led to a rapid increase in the number of publications. Moreover, different roadmaps were published to define the technology target and trends from a market perspective to support both researchers and policymakers.</p> <p>To main aim of this keynote is to dive into those roadmaps and to compare the technology trends and market perspective with the research trends coming from the academic literature to identify the main gaps to be addressed to overcome the actual barriers in the deployment of TES technologies.</p>	
Biographical Sketch (Approximately 200 words)	<p>Chemical engineer from the Institut Químic de Sarrià in 1992, industrial engineer from University Ramon Llull in 1993, master in industrial business management in 1995 and doctor industrial engineer in 1996 from the same university. Post-doctoral researcher at the Eastern Regional Research Center (ARS, USDA) in Philadelphia. Since 1999 at the University of Lleida, where she created the research group GREA, in 2004 (today GREiA) and with international prestige in the field of thermal energy storage. She has published more than 500 indexed articles and participated in more than 340 conferences. She has edited or co-edited 12 research books and is the author of one, in addition to publishing 24 book chapters. All her research career led her to become a Spanish representative in the Horizon 2020 Energy Challenge Committee 3, in the ECES Implementing Agreement of the International Energy Agency, and she has participated in the drafting of 3 IPCC reports, the last of which, as chapter coordinator.</p>	