EG on Storage: EASE Inputs

Christian Noce, Enel, EG Vice-Chair
20 December 2018

Classification of Storage Technologies

- EASE proposes the following classification of storage technologies in generating mode:

ES TYPES	ES TECHNOLOGIES	Storage Output	GRID INTERFACE	SYNCHRONOUS STORAGE = Synchronous Generator Module	NON SYNCHRONOUS INTERFACE= Power Park Module
Chemical	H_2 Storage (fuel cell)	=	PCS		*
	H_2 storage (gas turbine)	≃		*	
Electrical	Supercapacitors	=	PCS		*
	Superconducting magnetic energy storage (SMES)	≃	PCS		*
Electrochemical	Batteries	=	PCS		*
Mechanical	Compressed Air Energy Storage (CAES)	≃		*	
	Flywheels	=	PCS		*
	Liquid Air Energy Storage (LAES)	≃		*	
	Pumped Hydro Storage (PHS)	≃		*	

Questions for Discussion

- How to treat differences in energy storage charging mode? Will the DCC apply?
- Does it make sense to differentiate between PHS and the other ES devices?
- How will storage be treated when it is a supplementary component to a generator?