

Literature

SEE030 Variation management in the electricity system

<i>Block</i>	<i>Title</i>	<i>Relevance</i>	<i>Where?</i>	<i>Notes</i>
Wind and solar variations	System perspectives on renewable Power	+++	Course page	Support P1
Intro to VMS	VMS definition	+++++	Course page	Core concepts
Intro to VMS	Ch 2 Classifications of storage...	++++	https://doi.org/10.1016/B978-0-444-62616-5.00002-4	Core concepts
Intro to VMS	Review of energy system flexibility measures...	+++++	https://doi.org/10.1016/j.rser.2015.01.057	Core concepts
Household load shifting	Building energy calculations	++	Course page	Needed for P2
Batteries	Ch 16 Lithium Batteries...	++	https://doi.org/10.1016/B978-0-444-62616-5.00016-4	Extended reading
Batteries	Ch 17 Redox Flow Batteries...	++	https://doi.org/10.1016/B978-0-444-62616-5.00017-6	Extended reading
Electrolysis and fuel cells	Ch 8 Hydrogen production...	++++	https://doi.org/10.1016/B978-0-444-62616-5.00008-5	Key tech props
Hydrogen storage and applications	Ch 12 Energy carriers	+++	https://doi.org/10.1016/B978-0-444-62616-5.00012-7	Extended reading
Flex in thermal generation	Review of the operational flex...	++++	https://doi.org/10.1016/j.rser.2017.05.278	Key tech props
Flex in thermal generation	Improving the flexibility of coal..	+++	https://doi.org/10.1016/j.apenergy.2017.10.085	System aspects
Hydropower	Hydropower short	+++++	Course page	Key tech props
Hydropower	Flex hydro EPRI	++	Course page	Extended reading
Linkages to the heat sector	Heat storage review	+++	Course page	Key tech props
Linkages to the heat sector	TES 1 IRENA-ETSAP	+++	Course page	Overview
Linkages to the transport sector	Transport linkages	++++	Course page	System aspects
Economics of storage	Ch 21 Life Cycle Cost Calc	+++++	https://doi.org/10.1016/B978-0-444-62616-5.00021-8	Core concepts
VMS interaction, actors and environment	Environmental performance of grid storage systems...	+++++	https://doi.org/10.1016/j.enconman.2015.05.063	System aspects