

### REFERENCES

- [1] Australian Energy Market Operator Ltd, “Power System Security Guidelines,” September 2019, [online], available at: [https://www.aemo.com.au/-/media/Files/Electricity/NEM/Security\\_and\\_Reliability/Power\\_System\\_Ops/Procedures/SO\\_OP\\_3715---Power-System-Security-Guidelines.pdf](https://www.aemo.com.au/-/media/Files/Electricity/NEM/Security_and_Reliability/Power_System_Ops/Procedures/SO_OP_3715---Power-System-Security-Guidelines.pdf)
- [2] EIRGRID, “Transmission System Security and Planning Standards,” May 2016, [online], available at: <http://www.eirgridgroup.com/site-files/library/EirGrid/EirGrid-Transmission-System-Security-and-Planning-Standards-TSSPS-Final-May-2016-APPROVED.pdf>
- [3] INOGATE, “Electricity Transmission Security Standards in Armenia,” September 2014, [online], available at: <https://http://www.inogate.org/documents/AM45.pdf>
- [4] Ceylon Electricity Board, “Statistical Digest 2018,” [online], available at: <https://ceb.lk/publication-media/statistical-reports/80/en>
- [5] Lucas Thomée, “Lithium-Ion Battery Storage for Frequency Control,” Sweden 2018, [online], available at: <http://publications.lib.chalmers.se/records/fulltext/255343/255343.pdf>, Department of Electrical Engineering, Chalmers University of Technology, Gothenburg
- [6] Siemens, “PSS®E Model Library,” Siemens Industry, Inc, October 2013
- [7] P. V. Brogan, R. Best, D. J. Morrow, A. Alikhanzadeh and M. Kubik, "Per Unit Displacement of Synchronous Inertia with BESS Synthetic Inertia Devices," 2018 IEEE Power & Energy Society General Meeting (PESGM), Portland, OR, 2018, pp. 1-5, doi: 10.1109/PESGM.2018.8586323
- [8] K Mongird, V Fotedar, V Viswanathan, V Koritarov, P Balducci, B Hadjerioua, J Alam, “Energy Storage Technology and Cost Characterization Report,” Pacific Northwest National Laboratory, July 2019, [online], available at: [https://www.energy.gov/sites/prod/files/2019/07/f65/Storage%20Cost%20and%20Performance%20Characterization%20Report\\_Final.pdf](https://www.energy.gov/sites/prod/files/2019/07/f65/Storage%20Cost%20and%20Performance%20Characterization%20Report_Final.pdf)
- [9] Wesley Cole, A. Will Frazier, “Cost Projections for Utility-Scale Battery Storage: 2020 Update,” National Renewable Energy Laboratory, June 2020
- [10] Sangwook Han, A study on alternative method of self – starting generator using ESS, Journal of International Council on Electrical Engineering, 2019, 9:1, 1-7, DOI: 10.1080/22348972.2018.1558921

- [11] LAZARD, “Lazard’s Levelized Cost of Storage Analysis Version-5.0” November 2019, [online], available at: <https://www.lazard.com/media/451087/lazards-levelized-cost-of-storage-version-50-vf.pdf>
- [12] Shruti M. Deorah, Nikit Abhyankar, Siddharth Arora, Ashwin Gambhir, Amol Phadke, “Estimating the Cost of Grid-Scale Lithium-Ion Battery Storage in India”, April 2019, [online], available at: <https://eta-publications.lbl.gov/sites/default/files/lbnl-2001314.pdf>
- [13] R. S. Ranjitha, “Determination of Maximum Possible Loading Capacity of a Single Generator Unit: A Case Study for The Present Sri Lankan Power System,” M.Sc. thesis, University of Moratuwa, January 2018, [online], available at: <https://dl.lib.mrt.ac.lk/handle/123/13319>
- [14] G. Kishokumar, “Designing Automatic Load-Frequency Control Scheme for Sri Lankan Power System,” M.Sc. thesis, University of Moratuwa, April 2018, [online], available at: <https://dl.lib.mrt.ac.lk/handle/123/13325>
- [15] K. H. E. H. Jayarathna, “Technical and Economic Impacts of the First Coal-fired Power Station in Sri Lanka,” M.Sc. thesis, University of Gävle, May 2015, [online], available at: <http://www.diva-portal.org/smash/get/diva2:812764/FULLTEXT01.pdf>
- [16] F. Gonzalez-Longatt, E. Chikuni, W. Stemmet and K. Folly, "Effects of the synthetic inertia from wind power on the total system inertia after a frequency disturbance," IEEE Power and Energy Society Conference and Exposition in Africa: Intelligent Grid Integration of Renewable Energy Resources (PowerAfrica), Johannesburg, 2012, pp. 1-7, doi: 10.1109/PowerAfrica.2012.6498636.
- [17] Dr. L. N. Widanagama Arachchige, Prof. J. R. Lucas, Ms. M. S. Nakandala, “Generation Cost Optimization through a Network Stability Study,” July 2016, [online], available at: <https://www.pucsl.gov.lk/wp-content/uploads/2020/06/2016-Final-report-stability-study-to-PUCSL-07-07-2016-1.pdf>
- [18] Ceylon Electricity Board, “National System Control Centre Annual Report 2019,” May 2020
- [19] V. Knap, S. K. Chaudhary, D. Stroe, M. Swierczynski, B. Craciun and R. Teodorescu, "Sizing of an Energy Storage System for Grid Inertial Response and Primary Frequency Reserve," in IEEE Transactions on Power Systems, vol. 31, no. 5, pp. 3447-3456, Sept. 2016, doi: 10.1109/TPWRS.2015.2503565.
- [20] Public utilities commission of Sri Lanka, “Study Report on Use of Battery Energy Storage Systems”, Nov 2015, [online], available at: <https://www.pucsl.gov.lk/wp-content/uploads/2017/10/Study-Report-on-Use-of-Battery-Energy-Storage-Systems.pdf>

[21] M. C. Such and G. Y. Masada, "BESS control on an microgrid with significant wind generation," *2017 IEEE Power & Energy Society General Meeting*, Chicago, IL, USA, 2017, pp. 1-5, doi: 10.1109/PESGM.2017.8274644.

[22] Son, Dae-Hee & Ali, Muhammad & Kang, Sang-Hee & Heo, Jae-Haeng & Nam, Soon-Ryul. (2018). A Method for Increasing the Operating Limit Capacity of Wind Farms Using Battery Energy Storage Systems with Rate of Change of Frequency. *Energies*. 11. 758. 10.3390/en11040758.