

DAFTAR PUSTAKA

- [1] International Energy Agency Photovoltaics Power Systems, “2020 Snapshot of Global PV Markets,” International Energy Agency, Tech. Rep., 2020.
- [2] International Renewable Energy Agency, “Renewable Capacity Statistics 2020,” International Renewable Energy Agency, Tech. Rep., 2020.
- [3] M. Hasheminamin, V. G. Agelidis, V. Salehi, R. Teodorescu, and B. Hredzak, “Index-Based Assessment of Voltage Rise and Reverse Power Flow Phenomena in a Distribution Feeder under High PV Penetration,” *IEEE Journal of Photovoltaics*, vol. 5, no. 4, pp. 1158–1168, 2015.
- [4] M. J. Reno, K. Coogan, J. Seuss, and R. J. Broderick, “Novel Methods to Determine Feeder Locational PV Hosting Capacity and PV Impact Signatures,” Sandia National Laboratories, Tech. Rep. July, 2016.
- [5] F. Olivier, P. Aristidou, D. Ernst, and T. Van Cutsem, “Active Management of Low-Voltage Networks for Mitigating Overvoltages Due to Photovoltaic Units,” *IEEE Transactions on Smart Grid*, vol. 7, no. 2, pp. 926–936, 2016.
- [6] D. Santos-Martin and S. Lemon, “Simplified Modeling of Low Voltage Distribution Networks for PV Voltage Impact Studies,” *IEEE Transactions on Smart Grid*, vol. 7, no. 4, pp. 1924–1931, 2016.
- [7] A. Y. Elrayyah, M. Z. Wanik, and A. Bouselham, “Simplified Approach to Analyze Voltage Rise in LV Systems With PV Installations Using Equivalent Power Systems Diagrams,” *IEEE Transactions on Power Delivery*, vol. 32, no. 4, pp. 2140–2149, 2017.
- [8] H. Mortazavi, H. Mehrjerdi, M. Saad, S. Lefebvre, D. Asber, and L. Lenoir, “A Monitoring Technique for Reversed Power Flow Detection with High PV Penetration Level,” *IEEE Transactions on Smart Grid*, vol. 6, no. 5, pp. 2221–2232, 2015.
- [9] M. Andresen, G. Buticchi, and M. Liserre, “Thermal Stress Analysis and MPPT Optimization of Photovoltaic Systems,” *IEEE Transactions on Industrial Electronics*, vol. 63, no. 8, pp. 4889–4898, 2016.
- [10] J. Abreu, N. Wingartz, and N. Hardy, “New Trends in Solar: A Comparative Study Assessing the Attitudes Towards the Adoption of Rooftop PV,” *Energy Policy*, vol. 128, pp. 347–363, 2019.
- [11] S. Comello, S. Reichelstein, and A. Sahoo, “The Road Ahead for Solar PV Power,” *Renewable and Sustainable Energy Reviews*, vol. 92, pp. 744–756, 2018.
- [12] E. Karakaya, A. Hidalgo, and C. Nuur, “Motivators for Adoption of Photovoltaic Systems at Grid Parity: A Case Study from Southern Germany,” *Renewable and Sustainable Energy Reviews*, vol. 43, pp. 1090–1098, 2015.

- [13] K. Handayani, Y. Krozer, and T. Filatova, "From Fossil Fuels to Renewables: An Analysis of Long-Term Scenarios Considering Technological Learning," *Energy Policy*, vol. 127, pp. 134–146, 2019.
- [14] M. Bollen and F. Hassan, *Integration of Distributed Generation in the Power System*. Hoboken: John Wiley & Sons, 2011.
- [15] Electric Power Research Institute, "Stochastic Analysis to Determine Feeder Hosting Capacity for Distributed Solar PV," Electric Power Research Institute, Tech. Rep., 2012.
- [16] R. Torquato, D. Salles, C. O. Pereira, P. C. M. Meira, and W. Freitas, "A Comprehensive Assessment of PV Hosting Capacity on Low-Voltage Distribution Systems," *IEEE Transactions on Power Delivery*, vol. 33, no. 2, pp. 1002–1012, 2018.
- [17] A. Dubey and S. Santoso, "On Estimation and Sensitivity Analysis of Distribution Circuit's Photovoltaic Hosting Capacity," *IEEE Transactions on Power Systems*, vol. 32, no. 4, pp. 2779–2789, 2017.
- [18] S. Heslop, I. MacGill, and J. Fletcher, "Maximum PV Generation Estimation Method for Residential Low Voltage Feeders," *Sustainable Energy, Grids and Networks*, vol. 7, pp. 58–69, 2016.
- [19] R. Luthander, D. Lingfors, and J. Widén, "Large-Scale Integration of Photovoltaic Power in A Distribution Grid Using Power Curtailment and Energy Storage," *Solar Energy*, vol. 155, pp. 1319–1325, 2017.
- [20] M. Emmanuel and R. Rayudu, "The Impact of Single-Phase Grid-Connected Distributed Photovoltaic Systems on the Distribution Network Using P-Q and P-V Models," *International Journal of Electrical Power and Energy Systems*, vol. 91, pp. 20–33, 2017.
- [21] S. Breker, A. Claudi, and B. Sick, "Capacity of Low-Voltage Grids for Distributed Generation: Classification by Means of Stochastic Simulations," *IEEE Transactions on Power Systems*, vol. 30, no. 2, pp. 689–700, 2015.
- [22] M. Kolenc, I. Papič, and B. Blažič, "Assessment of Maximum Distributed Generation Penetration Levels in Low Voltage Networks Using a Probabilistic Approach," *International Journal of Electrical Power and Energy Systems*, vol. 64, pp. 505–515, 2015.
- [23] M. H. Bollen and S. K. Rönnerberg, "Hosting Capacity of the Power Grid for Renewable Electricity Production and New Large Consumption Equipment," *Energies*, vol. 10, no. 9, 2017.
- [24] S. Conti and S. Raiti, "Probabilistic Load Flow Using Monte Carlo Techniques for Distribution Networks with Photovoltaic Generators," *Solar Energy*, vol. 81, no. 12, pp. 1473–1481, 2007.
- [25] R. A. Shayani, M. A. G. de Oliveira, and M. D. Oliveira, "Photovoltaic Generation Penetration Limits in Radial Distribution Systems," *IEEE Transactions on Power Systems*, vol. 26, no. 3, pp. 1625–1631, 2011.

- [26] M. N. Kabir, Y. Mishra, and R. C. Bansal, "Probabilistic Load Flow for Distribution Systems with Uncertain PV Generation," *Applied Energy*, vol. 163, pp. 343–351, 2016.
- [27] M. A. Abdelkader, Z. H. Osman, and M. A. Elshahed, "New Analytical Approach for Simultaneous Feeder Reconfiguration and DG Hosting Allocation in Radial Distribution Networks," *Ain Shams Engineering Journal*, 2020.
- [28] C. Wang and M. H. Nehrir, "Analytical Approaches for Optimal Placement of Distributed Generation Sources in Power Systems," *IEEE Transactions on Power Systems*, vol. 19, no. 4, pp. 2068–2076, 2004.
- [29] T. Gözel and M. H. Hocaoglu, "An Analytical Method for the Sizing and Siting of Distributed Generators in Radial Systems," *Electric Power Systems Research*, vol. 79, no. 6, pp. 912–918, 2009.
- [30] G. Mokryani, Y. F. Hu, P. Papadopoulos, T. Niknam, and J. Aghaei, "Deterministic Approach for Active Distribution Networks Planning with High Penetration of Wind and Solar Power," *Renewable Energy*, vol. 113, pp. 942–951, 2017.
- [31] R. H. Zubo, G. Mokryani, H. S. Rajamani, J. Aghaei, T. Niknam, and P. Pillai, "Operation and Planning of Distribution Networks with Integration of Renewable Distributed Generators Considering Uncertainties: A Review," *Renewable and Sustainable Energy Reviews*, vol. 72, no. May 2016, pp. 1177–1198, 2017.
- [32] P. A. Gooding, E. Makram, and R. Hadidi, "Probability Analysis of Distributed Generation for Island Scenarios Utilizing Carolinas Data," *Electric Power Systems Research*, vol. 107, pp. 125–132, 2014.
- [33] S. Wang, Y. Dong, L. Wu, and B. Yan, "Interval Overvoltage Risk Based PV Hosting Capacity Evaluation Considering PV and Load Uncertainties," *IEEE Transactions on Smart Grid*, vol. 11, no. 3, pp. 2709–2721, 2020.
- [34] A. Dubey, S. Santoso, and A. Maitra, "Understanding Photovoltaic Hosting Capacity of Distribution Circuits," in *IEEE Power and Energy Society General Meeting*, 2015.
- [35] F. Ding and B. Mather, "On Distributed PV Hosting Capacity Estimation, Sensitivity Study, and Improvement," *IEEE Transactions on Sustainable Energy*, vol. 8, no. 3, pp. 1010–1020, 2017.
- [36] International Renewable Energy Agency, "Behind-The-Meter Batteries," International Renewable Energy Agency, Tech. Rep., 2019.
- [37] V. Behraves, R. Keypour, and A. A. Foroud, "Stochastic Analysis of Solar and Wind Hybrid Rooftop Generation Systems and Their Impact on Voltage Behavior in Low Voltage Distribution Systems," *Solar Energy*, vol. 166, no. June 2017, pp. 317–333, 2018.
- [38] T. Beck, H. Kondziella, G. Huard, and T. Bruckner, "Assessing the Influence of the Temporal Resolution of Electrical Load and PV Generation Profiles on Self-Consumption and Sizing of PV-Battery Systems," *Applied Energy*, vol. 173, pp. 331–342, 2016.

- [39] W. R. Gilks, S. Richardson, and D. J. Spiegelhalter, *Markov Chain Monte Carlo in Practice*, 1st ed. Dordrecht: Springer-Science+Business Media, B.V., 1996.
- [40] F. Liang, C. Liu, and R. J. Carroll, *Advanced Markov Chain Monte Carlo Methods: Learning from Past Samples*, 1st ed. Chichester: A John Wiley and Sons, Ltd., 2010.
- [41] G. B. Dantzig, "Linear Programming Under Uncertainty," *International Series in Operations Research and Management Science*, vol. 150, pp. 1–11, 2011.
- [42] K. N. Hasan, R. Preece, and J. V. Milanović, "Existing Approaches and Trends in Uncertainty Modelling and Probabilistic Stability Analysis of Power Systems with Renewable Generation," *Renewable and Sustainable Energy Reviews*, vol. 101, pp. 168–180, 2019.
- [43] A. Kharrazi, V. Sreeram, and Y. Mishra, "Assessment Techniques of the Impact of Grid-Tied Rooftop Photovoltaic Generation on the Power Quality of Low Voltage Distribution Network - A Review," *Renewable and Sustainable Energy Reviews*, vol. 120, pp. 1–16, 2020.
- [44] F. Shahnia, R. Majumder, A. Ghosh, G. Ledwich, and F. Zare, "Voltage Imbalance Analysis in Residential Low Voltage Distribution Networks with Rooftop PVs," *Electric Power Systems Research*, vol. 81, no. 9, pp. 1805–1814, 2011.
- [45] F. J. Ruiz-Rodriguez, J. C. Hernández, and F. Jurado, "Probabilistic Load Flow for Photovoltaic Distributed Generation Using the Cornish-Fisher Expansion," *Electric Power Systems Research*, vol. 89, pp. 129–138, 2012.
- [46] E. N. Silva, A. B. Rodrigues, and M. Da Guia Da Silva, "Stochastic Assessment of the Impact of Photovoltaic Distributed Generation on the Power Quality Indices of Distribution Networks," *Electric Power Systems Research*, vol. 135, pp. 59–67, 2016.
- [47] M. Al-Saffar and P. Musilek, "Reinforcement Learning-Based Distributed BESS Management for Mitigating Overvoltage Issues in Systems With High PV Penetration," *IEEE Transactions on Smart Grid*, vol. 11, no. 4, pp. 2980–2994, 2020.
- [48] S. Hashemi and J. Østergaard, "Efficient Control of Energy Storage for Increasing the PV Hosting Capacity of LV Grids," *IEEE Transactions on Smart Grid*, vol. 9, no. 3, pp. 2295–2303, 2018.
- [49] Y. Yang, H. Li, A. Aichhorn, J. Zheng, and M. Greenleaf, "Sizing Strategy of Distributed Battery Storage System with High Penetration of Photovoltaic for Voltage Regulation and Peak Load Shaving," *IEEE Transactions on Smart Grid*, vol. 5, no. 2, pp. 982–991, 2014.
- [50] A. Navarro-Espinosa and L. F. Ochoa, "Probabilistic Impact Assessment of Low Carbon Technologies in LV Distribution Systems," *IEEE Transactions on Power Systems*, vol. 31, no. 3, pp. 2192–2203, 2016.
- [51] A. Arshad, M. Lindner, and M. Lehtonen, "An Analysis of Photo-Voltaic Hosting Capacity in Finnish Low Voltage Distribution Networks," *Energies*, vol. 10, no. 11, pp. 1–16, 2017.

- [52] J. E. R. Baptista, A. B. Rodrigues, and M. Da Guia Da Silva, "Probabilistic Analysis of PV Generation Impacts on Voltage Sags in LV Distribution Networks Considering Failure Rates Dependent on Feeder Loading," *IEEE Transactions on Sustainable Energy*, vol. 10, no. 3, pp. 1342–1350, 2019.
- [53] M. Deakin, C. Crozier, D. Apostolopoulou, T. Morstyn, and M. McCulloch, "Stochastic Hosting Capacity in LV Distribution Networks," in *IEEE Power and Energy Society General Meeting*, 2019.
- [54] P. P. Vergara, M. Salazar, T. T. Mai, P. H. Nguyen, and H. Slootweg, "A Comprehensive Assessment of PV Inverters Operating with Droop Control for Overvoltage Mitigation in LV Distribution Networks," *Renewable Energy*, vol. 159, pp. 172–183, 2020.
- [55] T. T. Mai, A. N. M. Haque, P. P. Vergara, P. H. Nguyen, and G. Pemen, "Adaptive Coordination of Sequential Droop Control for PV Inverters to Mitigate Voltage Rise in PV-Rich LV Distribution Networks," *Electric Power Systems Research*, vol. 192, no. March 2020, pp. 1–13, 2021.
- [56] Standard EN 50160, "Voltage Characteristics of Electricity Supplied by Public Distribution Systems," 2000.
- [57] ANSI C84.1, "American National Standard for Electric Power Systems and Equipment - Voltage Ratings (60 Hertz)," 2011.
- [58] IEC 60038:2002, "IEC Standard Voltages," 2002.
- [59] J. Lee and G. H. Kim, "Comparison Analysis of the Voltage Variation Ranges for Distribution Networks," in *Conference Proceedings - 2017 17th IEEE International Conference on Environment and Electrical Engineering and 2017 1st IEEE Industrial and Commercial Power Systems Europe, IEEEIC / I and CPS Europe 2017*. IEEE, 2017, pp. 28–30.
- [60] M. H. J. Bollen and M. Häger, "Power Quality: Interactions Between Distributed Energy Resources, the Grid, and Other Customers," *Electric Power Quality and Utilisation Magazine*, vol. 1, pp. 51–61, 2005.
- [61] B. Palmintier, R. Broderick, B. Mather, M. Coddington, K. Baker, F. Ding, M. Reno, M. Lave, and A. Bharatkumar, "On the Path to SunShot: Emerging Issues and Challenges in Integrating Solar with the Distribution System," National Renewable Energy Laboratory and Sandia National Laboratories, Tech. Rep., 2016.
- [62] Electric Power Research Institute, "Grid Impacts of Distributed Generation with Advanced Inverter Functions," Electric Power Research Institute, Tech. Rep., 2013.
- [63] S. Tao, C. Li, L. Zhang, and Y. Tang, "Operational Risk Assessment of Grid-Connected PV System Considering Weather Variability and Component Availability," *Energy Procedia*, vol. 145, pp. 252–258, 2018.
- [64] F. Vallée, C. Versèle, J. Lobry, and F. Moiny, "Non-Sequential Monte Carlo Simulation Tool in Order to Minimize Gaseous Pollutants Emissions in Presence of Fluctuating Wind Power," *Renewable Energy*, vol. 50, pp. 317–324, 2013.

- [65] P. Arun, R. Banerjee, and S. Bandyopadhyay, "Optimum Sizing of Photovoltaic Battery Systems Incorporating Uncertainty Through Design Space Approach," *Solar Energy*, vol. 83, no. 7, pp. 1013–1025, 2009.
- [66] E. Zio, M. Delfanti, L. Giorgi, V. Olivieri, and G. Sansavini, "Monte Carlo Simulation-Based Probabilistic Assessment of DG Penetration in Medium Voltage Distribution Networks," *International Journal of Electrical Power and Energy Systems*, vol. 64, pp. 852–860, 2015.
- [67] R. Billinton, "Evaluation of reliability worth in an electric power system," *Reliability Engineering and System Safety*, vol. 9, no. 3, pp. 1318–1326, 1994.
- [68] Q. Zhao, P. Wang, L. Goel, and Y. Ding, "Evaluation of Nodal Reliability Risk in A Deregulated Power System with Photovoltaic Power Penetration," *IET Generation, Transmission and Distribution*, vol. 8, no. 3, pp. 421–430, 2014.
- [69] J. D. Watson, N. R. Watson, D. Santos-Martin, A. R. Wood, S. Lemon, and A. J. Miller, "Impact of Solar Photovoltaics on the Low-Voltage Distribution Network in New Zealand," *IET Generation, Transmission and Distribution*, vol. 10, no. 1, pp. 1–9, 2016.
- [70] E. Quiles, C. Roldán-Blay, G. Escrivá-Escrivá, and C. Roldán-Porta, "Accurate Sizing of Residential Stand-Alone Photovoltaic Systems Considering System Reliability," *Sustainability (Switzerland)*, vol. 12, no. 3, pp. 1–18, 2020.
- [71] J. E. Smith, M. E. Rylander, R. S. N. L. Broderick, and B. N. Mather, "Alternatives to the 15% Rule - Modeling and Hosting Capacity Analysis of 16 Feeders," Electric Power Research Institute, Tech. Rep., 2015.
- [72] B. Bletterie, S. Kadam, R. Bolgarny, and A. Zegers, "Voltage Control with PV Inverters in Low Voltage Networks-In Depth Analysis of Different Concepts and Parameterization Criteria," *IEEE Transactions on Power Systems*, vol. 32, no. 1, pp. 177–185, 2017.
- [73] A. Nourai, R. Sastry, and T. Walker, "A Vision & Strategy for Deployment of Energy Storage in Electric Utilities," *IEEE PES General Meeting, PES 2010*, pp. 1–4, 2010.
- [74] B. P. Roberts and C. Sandberg, "The Role of Energy Storage in Development of Smart Grids," *Proceedings of the IEEE*, vol. 99, no. 6, pp. 1139–1144, 2011.
- [75] N. Jayasekara, M. A. Masoum, and P. J. Wolfs, "Optimal Operation of Distributed Energy Storage Systems to Improve Distribution Network Load and Generation Hosting Capability," *IEEE Transactions on Sustainable Energy*, vol. 7, no. 1, pp. 250–261, 2016.
- [76] P. Hasanpor Divshali and L. Soder, "Improving Hosting Capacity of Rooftop PVs by Quadratic Control of an LV-Central BSS," *IEEE Transactions on Smart Grid*, vol. 10, no. 1, pp. 919–927, 2019.
- [77] B. Lu and M. Shahidehpour, "Short-Term Scheduling of Battery in A Grid-Connected PV/Battery System," *IEEE Transactions on Power Systems*, vol. 20, no. 2, pp. 1053–1061, 2005.

- [78] W. Y. Atmaja, Sarjiya, and L. M. Putranto, "A review of stochastic hosting capacity problems concerning high photovoltaic penetration." Institute of Electrical and Electronics Engineers Inc., 2022, pp. 333–338.
- [79] B. Jaramillo-Leon, S. Zambrano-Asanza, J. F. Franco, J. Soares, and J. B. Leite, "Allocation and smart inverter setting of ground-mounted photovoltaic power plants for the maximization of hosting capacity in distribution networks," *Renewable Energy*, vol. 223, p. 119968, 3 2024. [Online]. Available: <https://linkinghub.elsevier.com/retrieve/pii/S0960148124000338>
- [80] N. Qammar, A. Arshad, R. J. Miller, K. Mahmoud, and M. Lehtonen, "Probabilistic hosting capacity assessment towards efficient pv-rich low-voltage distribution networks," *Electric Power Systems Research*, vol. 226, 1 2024.
- [81] H. Ben-Ammar, Y. Hadjadj-Aoul, G. Rubino, and S. Ait-Chellouche, "On the performance analysis of distributed caching systems using a customizable Markov chain model," *Journal of Network and Computer Applications*, vol. 130, no. August 2018, pp. 39–51, 2019. [Online]. Available: <https://doi.org/10.1016/j.jnca.2019.01.011>
- [82] D. Revuz, *Markov Chains*. North Holland, Amsterdam: American Elsevier, New York, 1984.
- [83] D. R. Upper, "Theory and Algorithms for Hidden Markov Models and Generalized Hidden Markov Models," Doctoral Dissertation, University of California at Berkeley, 1997.
- [84] M. Penagarikano and G. Bordel, "Layered Markov Models: A New Architectural Approach to Automatic Speech Recognition," in *The 2004 14th IEEE Signal Processing Society Workshop Machine Learning for Signal Processing*. IEEE, 2004, pp. 305–314.
- [85] P. Louangrath, "Sample Size Determination for Non-Finite Population," in *International Conference on Discrete Mathematics and Applied Sciences*, 2014, pp. 1–24.
- [86] J. Arroyo and C. Mate, "Introducing Interval Time Series: Accuracy Measures," in *COMPSTAT Proceedings in Computational Statistics*, 2006, pp. 1–8.
- [87] J. Arroyo, R. Espínola, and C. Maté, "Different Approaches to Forecast Interval Time Series: A Comparison in Finance," *Computational Economics*, vol. 37, no. 2, pp. 169–191, 2011.
- [88] W. Xing, N. Deng, B. Xin, Y. Chen, and Z. Zhang, "Investigation of a novel automatic micro image-based method for the recognition of animal fibers based on wavelet and markov random field," *Micron*, vol. 119, pp. 88–97, 4 2019.
- [89] L. Venkataramanan and F. J. Sigworth, "Applying hidden markov models to the analysis of single ion channel activity," *Biophysical Journal*, vol. 82, pp. 1930–1942, 2002.
- [90] M. Z. U. Abideen, O. Ellabban, F. Ahmad, and L. Al-Fagih, "An enhanced approach for solar pv hosting capacity analysis in distribution networks," *IEEE Access*, vol. 10, pp. 120 563–120 577, 2022.

- [91] H. Yao, W. Qin, X. Jing, Z. Zhu, K. Wang, X. Han, and P. Wang, "Possibilistic evaluation of photovoltaic hosting capacity on distribution networks under uncertain environment," *Applied Energy*, vol. 324, 10 2022.
- [92] J. Yuan, Y. Weng, and C. W. Tan, "Determining maximum hosting capacity for pv systems in distribution grids," *International Journal of Electrical Power and Energy Systems*, vol. 135, 2 2022.
- [93] S. Taheri, M. Jalali, V. Kekatos, and L. Tong, "Fast probabilistic hosting capacity analysis for active distribution systems," *IEEE Transactions on Smart Grid*, vol. 12, pp. 2000–2012, 5 2021.
- [94] G. W. Chang, N. C. Chinh, and C. Sinatra, "Equilibrium optimizer-based approach of pv generation planning in a distribution system for maximizing hosting capacity," *IEEE Access*, vol. 10, pp. 118 108–118 122, 2022.
- [95] M. S. S. Abad and J. Ma, "Photovoltaic hosting capacity sensitivity to active distribution network management," *IEEE Transactions on Power Systems*, vol. 36, pp. 107–117, 1 2021.
- [96] Y. Y. Fu and H. D. Chiang, "Toward optimal multiperiod network reconfiguration for increasing the hosting capacity of distribution networks," *IEEE Transactions on Power Delivery*, vol. 33, pp. 2294–2304, 10 2018.
- [97] J. Wu, J. Yuan, Y. Weng, and R. Ayyanar, "Spatial-temporal deep learning for hosting capacity analysis in distribution grids," *IEEE Transactions on Smart Grid*, vol. 14, pp. 354–364, 1 2023.
- [98] S. Jothibasu, A. Dubey, and S. Santoso, "Two-stage distribution circuit design framework for high levels of photovoltaic generation," *IEEE Transactions on Power Systems*, vol. 34, pp. 5217–5226, 11 2019.
- [99] W. Y. Atmaja , Sarjiya, L. M. Putranto, and S. Santoso, "Rooftop Photovoltaic Hosting Capacity Assessment: A Case Study of Rural Distribution Grids in Yogyakarta, Indonesia," in *Proceedings of the International Conference on Electrical Engineering and Informatics*, vol. 2019-July. IEEE, jul 2019, pp. 448–453.
- [100] W. Y. Atmaja, Sarjiya, M. P. Lesnanto, and E. Y. Pramono, "Hosting Capacity Improvement Using Reactive Power Control Strategy of Rooftop PV Inverters," in *2019 IEEE 7th International Conference on Smart Energy Grid Engineering (SEGE)*. IEEE, aug 2019, pp. 213–217.
- [101] W. Y. Atmaja, Sarjiya, and L. M. Putranto, "Evaluation of Rooftop Photovoltaic Allocation Strategies of Hosting Capacity Analysis in Low-Voltage Grid," *AIP Conference Proceedings*, vol. 2255, no. 1, pp. 020 022.1–020 022.6, sep 2020.
- [102] W. Y. Atmaja , Sarjiya, and L. M. Putranto, "A voltage rise mitigation control scheme of utility-scale battery in high pv penetration." Institute of Electrical and Electronics Engineers Inc., 2021, pp. 634–639.
- [103] W. Y. Atmaja , Sarjiya, and L. M. Putranto, "Evaluation of reactive power control for high pv penetration on low-voltage distribution network." Institute of Electrical and Electronics Engineers Inc., 2021, pp. 104–109.



- [104] W. Y. Atmaja, Sarjiya, and L. M. Putranto, “Battery energy storage system to reduce voltage rise under high penetration of customer-scale photovoltaics,” *International Journal of Sustainable Energy*, vol. 41, pp. 2150–2168, 2022.
- [105] W. Y. Atmaja, Sarjiya, and L. M. Putranto, “Development of pv hosting-capacity prediction method based on markov chain for high pv penetration with utility-scale battery storage on low-voltage grid,” *International Journal of Sustainable Energy*, vol. 42, pp. 1297–1316, 2023.