

- [1] M. Rashidinejad, Y. Song, and M. J. Dasht-Bayaz, "Contingency reserve pricing via a joint energy and reserve dispatching approach," *Energy conversion and management*, vol. 43, no. 4, pp. 537-548, 2002.
- [2] H. Gooi, D. Mendes, K. Bell, and D. Kirschen, "Optimal scheduling of spinning reserve," *IEEE Transactions on Power Systems*, vol. 14, no. 4, pp. 1485-1492, 1999.
- [3] F. Wen and A. David, "Optimally co-ordinated bidding strategies in energy and ancillary service markets," *IEE Proceedings-Generation, Transmission and Distribution*, vol. 149, no. 3, pp. 331-339, 2002.
- [4] H.-P. Chao and R. Wilson, "Multi-dimensional procurement auctions for power reserves: Robust incentive-compatible scoring and settlement rules," *Journal of Regulatory Economics*, vol. 22, no. 2, pp. 161-183, 2002.
- [5] D. Chattopadhyay, "Multicommodity spatial Cournot model for generator bidding analysis," *IEEE Transactions on Power Systems*, vol. 19, no. 1, pp. 267-275, 2004.
- [6] H. Haghighat, H. Seifi, and A. R. Kian, "Gaming analysis in joint energy and spinning reserve markets," *IEEE Transactions on Power Systems*, vol. 22, no. 4, pp. 2074-2085, 2007.
- [7] P. Attaviriyapap, H. Kita, E. Tanaka, and J. Hasegawa, "New bidding strategy formulation for day-ahead energy and reserve markets based on evolutionary programming," *International Journal of Electrical Power & Energy Systems*, vol. 27, no. 3, pp. 157-167, 2005.
- [8] D. J. Swider, "Simultaneous bidding in day-ahead auctions for spot energy and power systems reserve," *International Journal of Electrical Power & Energy Systems*, vol. 29, no. 6, pp. 470-479, 2007.
- [9] S. Just and C. Weber, "Pricing of reserves: Valuing system reserve capacity against spot prices in electricity markets," *Energy Economics*, vol. 30, no. 6, pp. 3198-3221, 2008.
- [10] J. Richter, "A Unique Competitive Equilibrium on Interdependent Spot Electricity and Reserve Capacity Markets," *Energiewirtschaftliches Institut an der Universitaet zu Koeln (EWI)* 2011.
- [11] J. Khorasani and H. R. Mashhadi, "Bidding analysis in joint energy and spinning reserve markets based on pay-as-bid pricing," *IET generation, transmission & distribution*, vol. 6, no. 1, pp. 79-87, 2012.
- [12] H. Rajabi Mashhadi and J. Khorasani, "Price-takers' bidding strategies in joint energy and spinning reserve pay-as-bid markets," *Iranian Journal of Electrical & Electronic Engineering*, vol. 9, no. 1, pp. 36-43, 2013.
- [13] J. Usaola and J. Angarita, "Bidding wind energy under uncertainty," in *Clean Electrical Power, 2007. ICCEP'07. International Conference on*, 2007, pp. 754-759.
- [14] A. Fabbri, T. G. S. Roman, J. R. Abbad, and V. M. Quezada, "Assessment of the cost associated with wind generation prediction errors in a liberalized electricity market," *IEEE Transactions on Power Systems*, vol. 20, no. 3, pp. 1440-1446, 2005.
- [15] M. Oloomi Buygi, H. Zareipour, and W. D. Rosehart, "Impacts of large-scale integration of intermittent resources on electricity markets: A supply function equilibrium approach," *IEEE Systems Journal*, vol. 6, no. 2, pp. 220-232, 2012.

- [16] C. Warmer, M. Hommelberg, I. Kamphuis, Z. Derzsi, and J. Kok, "Wind Turbines and Heat Pumps-Balancing wind power fluctuations using flexible demand," in *Proceedings of the 6th International Workshop on Large-Scale Integration of Wind Power, Delft*, 2006.
- [17] J. Matevosyan and L. Soder, "Minimization of imbalance cost trading wind power on the short-term power market," *IEEE Transactions on Power Systems*, vol. 21, no. 1, pp. 1396-1404, 2006.
- [18] J. Garcia-Gonzalez, R. M. R. de la Muela, L. M. Santos, and A. M. Gonzalez, "Stochastic joint optimization of wind generation and pumped-storage units in an electricity market," *IEEE Transactions on Power Systems*, vol. 23, no. 1, pp. 460-468, 2008.
- [19] J. M. Morales, A. J. Conejo, and J. Pérez-Ruiz, "Short-term trading for a wind power producer," *IEEE Transactions on Power Systems*, vol. 25, no. 1, pp. 554-564, 2010.
- [20] E. M. Gouveia and M. A. Matos, "Operational reserve of a power system with a large amount of wind power," in *Probabilistic Methods Applied to Power Systems, 2004 International Conference on*, 2004, pp. 717-722.
- [21] R. Doherty and M. O'malley, "A new approach to quantify reserve demand in systems with significant installed wind capacity," *IEEE Transactions on Power Systems*, vol. 20, no. 2, pp. 587-595, 2005.
- [22] M. A. Ortega-Vazquez and D. S. Kirschen, "Estimating the spinning reserve requirements in systems with significant wind power generation penetration," *IEEE Transactions on Power Systems*, vol. 24, no. 1, pp. 114-124, 2009.
- [23] H. Banakar, C. Luo, and B. T. Ooi, "Impacts of wind power minute-to-minute variations on power system operation," *IEEE Transactions on Power Systems*, vol. 23, no. 1, pp. 150-160, 2008.
- [24] D. Maggio, "Integrating Wind Forecasting into Market Operation-ERCOT," in *Presentation Wind Forecasting Workshop, Utility Wind Integration Group (UWIG), Phoenix, AZ*, 2009.
- [25] G. Strbac, A. Shakoor, M. Black, D. Pudjianto, and T. Bopp, "Impact of wind generation on the operation and development of the UK electricity systems," *Electric Power Systems Research*, vol. 77, no. 9, pp. 1214-1227, 2007.
- [26] H. Holttinen, "Impact of hourly wind power variations on the system operation in the Nordic countries," *Wind energy*, vol. 8, no. 2, pp. 197-218, 2005.
- [27] A. L. Da Silva and G. Alvarez, "Operating reserve capacity requirements and pricing in deregulated markets using probabilistic techniques," *IET Generation, Transmission & Distribution*, vol. 1, no. 3, pp. 439-446, 2007.
- [28] J. Wang, X. Wang, and Y. Wu, "Operating reserve model in the power market," *IEEE Transactions on Power systems*, vol. 20, no. 1, pp. 223-229, 2005.
- [29] M. A. Ortega-Vazquez and D. S. Kirschen, "Optimizing the spinning reserve requirements using a cost/benefit analysis," *IEEE Transactions on Power Systems*, vol. 22, no. 1, pp. 24-33, 2007.
- [30] J. M. Morales, A. J. Conejo, and J. Pérez-Ruiz, "Economic valuation of reserves in power systems with high penetration of wind power," *IEEE Transactions on Power Systems*, vol. 24, no. 2, pp. 900-910, 2009.
- [31] J. Liang, S. Grijalva, and R. G. Harley, "Increased wind revenue and system security by trading wind power in energy and regulation reserve markets," *IEEE Transactions on Sustainable Energy*, vol. 2, no. 3, pp. 340-347, 2011.
- [32] A. G. Bakirtzis, "Joint energy and reserve dispatch in a competitive pool using Lagrangian relaxation," *IEEE Power Engineering Review*, vol. 18, no. 11, pp. 60-62, 1998.

- [33] N. S. Rau, "Optimal dispatch of a system based on offers and bids-A mixed integer LP formulation," *IEEE Transactions on power systems*, vol. 14, no. 1, pp. 274-279, 1999.
- [34] S. J. Kazempour and H. Zareipour, "Equilibria in an oligopolistic market with wind power production," *IEEE Transactions on Power Systems*, vol. 29, no. 2, pp. 686-697, 2014.
- [35] M. A. Matos and R. J. Bessa, "Setting the operating reserve using probabilistic wind power forecasts," *IEEE Transactions on Power Systems*, vol. 26, no. 2, pp. 594-603, 2011.
- [36] K. De Vos, J. Morbee, J. Driesen, and R. Belmans, "Impact of wind power on sizing and allocation of reserve requirements," *IET Renewable Power Generation*, vol. 7, no. 1, pp. 1-9, 2013.
- [37] I. Umbrasko, R. Varfolomejeva, and A. Mahnitko, "Modeling of the generating company behavior in energy and reserve market," in *Environment and Electrical Engineering (EEEIC), 2012 11th International Conference on*, 2012, pp. 1070-1074.
- [38] T. Soares, P. Pinson, T. V. Jensen, and H. Morais, "Optimal offering strategies for wind power in energy and primary reserve markets," *IEEE Transactions on Sustainable Energy*, vol. 7, no. 3, pp. 1036-1045, 2016.
- [39] B. Zhang, R. Johari, and R. Rajagopal, "Competition and coalition formation of renewable power producers," *IEEE Transactions on Power Systems*, vol. 30, no. 3, pp. 1624-1632, 2015.
- [40] E. Du, N. Zhang, C. Kang, B. Kroposki, H. Huang, M. Miao, *et al.*, "Managing Wind Power Uncertainty Through Strategic Reserve Purchasing," *IEEE Transactions on Power Systems*, vol. 32, no. 4, pp. 2547-2559, 2017.
- [41] C. Peng, S. Lei, Y. Hou, and F. Wu, "Uncertainty management in power system operation," *CSEE Journal of Power and Energy Systems*, vol. 1, no. 1, pp. 28-35, 2015.
- [42] H. Zeineldin, T. El-Fouly, E. El-Saadany, and M. Salama, "Impact of wind farm integration on electricity market prices," *IET Renewable Power Generation*, vol. 3, no. 1, pp. 84-95, 2009.
- [43] A. Shahmohammadi, R. Sioshansi, A. J. Conejo, and S. Afsharnia, "Market equilibria and interactions between strategic generation, wind, and storage," *Applied Energy*, In Press, 2017.
- [44] M. Banaei, M. Oloomi Buygi, and H. Zareipour, "Impacts of strategic bidding of wind power producers on electricity markets," *IEEE Transactions on Power Systems*, vol. 31, no. 6, pp. 4544-4553, 2016.
- [45] M. Banaei, M. Oloomi Buygi, and S.-M. Zabetian-Hosseini, "Strategic gaming of wind power producers joined with thermal units in electricity markets," *Renewable Energy*, vol. 115, pp. 1067-1074, 2018.
- [46] F. Bouffard and F. D. Galiana, "Stochastic security for operations planning with significant wind power generation," in *Power and Energy Society General Meeting-Conversion and Delivery of Electrical Energy in the 21st Century, 2008 IEEE*, 2008, pp. 1-11.
- [47] H. Holttinen, P. Meibom, A. Orths, F. Van Hulle, B. Lange, M. O'Malley, *et al.*, "IEA Wind Task 25 design and operation of power systems with large amounts of wind power," *Final report, Phase one*, vol. 8, 2006.
- [48] K. Methaprayoon, C. Yingvivatanapong, W.-J. Lee, and J. R. Liao, "An integration of ANN wind power estimation into unit commitment considering the forecasting uncertainty," *IEEE Transactions on Industry Applications*, vol. 43, no. 6, pp. 1441-1448, 2007.
- [49] B. F. Hobbs, C. B. Metzler, and J.-S. Pang, "Strategic gaming analysis for electric power systems: An MPEC approach," *IEEE transactions on power systems*, vol. 15,

- no. 2, pp. 638-645, 2000.
- [50] P. Couchman, B. Kouvaritakis, M. Cannon, and F. Prashad, "Gaming strategy for electric power with random demand," *IEEE Transactions on Power Systems*, vol. 20, no. 3, pp. 1283-1292, 2005.
- [51] Z.-Q. Luo, J.-S. Pang, and D. Ralph, *Mathematical programs with equilibrium constraints*: Cambridge University Press, 1996.
- [52] G. Bautista, M. F. Anjos, and A. Vannelli, "Formulation of oligopolistic competition in AC power networks: An NLP approach," *IEEE Transactions on Power Systems*, vol. 22, no. 1, pp. 105-115, 2007.
- [53] C.-L. Su, "A sequential NCP algorithm for solving equilibrium problems with equilibrium constraints," *Manuscript, Department of Management Science and Engineering, Stanford University, Stanford, CA*, 2004.
- [54] S. Petoussis, X. Zhang, and K. Godfrey, "Electricity market equilibrium analysis based on nonlinear interior point algorithm with complementarity constraints," *IET Generation, Transmission & Distribution*, vol. 1, no. 4, pp. 603-612, 2007.
- [55] J. A. Carta and D. Mentado, "A continuous bivariate model for wind power density and wind turbine energy output estimations," *Energy conversion and Management*, vol. 48, no. 2, pp. 420-432, 2007.
- [56] O. Jaramillo and M. Borja, "Wind speed analysis in La Ventosa, Mexico: a bimodal probability distribution case," *Renewable Energy*, vol. 29, no. 10, pp. 1613-1630, 2004.
- [57] S. M. M. Agah and D. Flynn, "Impact of modelling non-normality and stochastic dependence of variables on operating reserve determination of power systems with high penetration of wind power," *International Journal of Electrical Power & Energy Systems*, vol. 97, pp. 146-154, 2018.
- [58] H. Lutkepohl, "Handbook of Matrices," John Wiley & Sons (1996).
- [59] R. Wiser and M. Bolinger, "2015 Wind Technologies Market Report," *U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy*, 2016. Accessed August 2015. <http://energy.gov/sites/prod/files/2016/08/f33/2015-Wind-Technologies-Market-Report08162016.pdf>.
- [60] C. Mone, M. Hand, M. Bolinger, J. Rand, D. Heimiller and J. Ho, "2015 Cost of Wind Energy Review," *National Renewable Energy Laboratory (NREL)*. 2016. Accessed August 2016. <https://www.nrel.gov/docs/fy17osti/66861.pdf>.