

KMB “Balance Management in Multinational Power Markets”

(Project number 1784677/S30)

List of publications

Technical reports, memos

- [1] Doorman, Van der Veen, Abassy “Balancing Market Design”. SINTEF TR A7005, August 2011

- [2] Grande, Doorman, Hernando, “Alternative schemes for exchange of balancing resources between separate synchronous systems in Northern Europe” SINTEF TR A7102, August 2011

- [3] Grande, Doorman, Bakken “Exchange of balancing resources between the Nordic synchronous system and the Netherlands / Germany / Poland.” SINTEF TR A6652, 2008

- [4] Jørgen and Arne Festervoll, “Documentation of present costs”, Technical report and spreadsheet, ADAPT Consulting, 2008.

- [5] D. H. Hernando “Variability of wind power and its impact on balancing reserve requirements”. SINTEF AN 10.12.47, 2010 (Memo)

- [6] Korpås, “Simulation of HVDC utilization using a flow-based market model” SINTEF AN 08.12.11 (Memo)

Articles/ Papers

- [7] H. Fahramand, G. Doorman, "Balancing market integration in the Northern European continent", Applied Energy journal, 2011

- [8] H. Fahramand, G. Doorman, O. Fosso, “Modelling of Balancing Market integration in the Northern European Continent” PSCC, Stockholm, Sweden, Aug 11.

- [9] Van der Veen, Abbasy, Hakvoort "An agent-based analysis of main cross-border balancing arrangements for Northern Europe", Power Tech, Trondheim, Norway, June 11.

- [10] S. Jaehnert, T. Aigner, G. Doorman, T. Gjengedal, "Impact of large scale wind integration on power system balancing", Power Tech, Trondheim, Norway, June 11.
- [11] Abbasy, Van der Veen, Hakvoort "Possible Effects of Balancing market Integration on Performance of Individual Markets" EEM, Zagreb, Croatia, May 11
- [12] Van der Veen, Abbasy, Hakvoort "Analysis of the impact of Cross-Border Balancing Arrangements for Northern Europe", EEM, Zagreb, Croatia, May 11
- [13] Van der Veen, Doorman, Grande, Abbasy, Hakvoort, Nobel, Klaar, "Harmonization and integration of national balancing markets in Europe – Regulatory challenges", CIGRE 2010, Paris Aug 2010
- [14] A. Abbasy, R. A. C. van der Veen, R. Hakvoort, "Coordination of Timing of Reserve Capacity and Day-Ahead Electricity Markets", 11th IAEE European Conference, Lithuania, August 2010
- [15] S. Jaehnert, G. Doorman, "Reservation of Transmission Capacity for the Exchange of Regulating Resources in Northern Europe: Is There A Benefit?", 11th IAEE European Conference, Vilnius, August 2010
- [16] S. Jaehnert, G. Doorman, "Modelling an Integrated Northern European Regulating Power Market Based on a Common Day-Ahead Market", 33rd IAEE International Conference, Rio de Janeiro, June 2010
- [17] K. Ravnaas, H. Farahmand and G. Doorman, "Optimal wind farm bids under different balancing market arrangements", in Proc. PMAAPS, Singapore, 2010.
- [18] H. Farahmand, S. M. A. Hosseini, Gerard L. Doorman, Olav Bjarte Fosso, "Flow Based Activation of Reserves in the Nordic Power System", accepted in PES General Meeting Conference, Minneapolis, Minnesota, USA, July 2010.
- [19] Van der Veen, R.A.C.; Abbasy, A.; Hakvoort, R.A. "A qualitative analysis of main cross-border balancing arrangements", 7th International Conference on the European Energy Market, June 2010, Madrid, Spain
- [20] Doorman, Grande "Reserve Requirements and Price Spikes in Multinational Power markets", 7th International Conference on the European Energy Market, June 2010, Madrid, Spain

- [21] Van der Veen, R.A.C.; Abbasy, A.; Hakvoort, R.A. "A comparison of imbalance settlement designs and results of Germany and the Netherlands" working paper for the Young Energy Engineers & Economists Seminar (YEEES), April 2010, Cambridge, UK
- [22] S. Jaehnert, H. Farahmand, G. Doorman, O. Grande, R. van der Veen, A. Abbasy, R. Hakvoort, "Balance Management in Multinational Power Markets", Enerday 2010, Dresden, Germany
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- [24] Van der Veen, R.A.C.; Abbasy, A.; Hakvoort, R.A., 2009. "Considering Alternative Multinational Balancing Market Designs for Europe" conference paper, 2009 World Congress on Power and Energy Engineering, October 2009, Cairo, Egypt
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- [27] A. Abbasy, R. A. C. Van der veen, R. Hakvoort, "Timing of Markets- the Key Variable in Design of Ancillary Service Markets for Power Reserves", 33rd IAEE International Conference, Brazil, June 2010.
- [28] A. Abbasy, R. Hakvoort, "Exploring the Design Space of Balancing Services Markets- A Theoretical Framework", the International Conference on Infrastructure Systems and Services, India, December 2009.

Seminar/ conference contributions

- [29] Ove S. Grande, SINTEF, "Balance Management project", Produksjonsteknisk konferanse, 8 March 11.
- [30] Ove S. Grande, SINTEF, "Balance Management project overview", BM Workshop Gardermoen, 26 Jan 11.

- [31] Rudi Hakvoort, TU Delft, “Market design and regulatory aspects- PhD work TU Delft”, BM Workshop Gardermoen, 26 Jan 11.
- [32] Gerard Doorman, NTNU, “Market modelling and optimal regulation- PhD work NTNU”, BM Workshop Gardermoen, 26 Jan 11.
- [33] Stefan Jaehnert, NTNU, “Merging of control areas Germany”, BM Workshop Gardermoen, 26 Jan 11
- [34] Daniel H. Hernando, SINTEF, ‘Dynamic reserve requirement in real time operation, presentation of tool used by REE, Spain’, BM Workshop Gardermoen, 27 Jan 11.
- [35] Stefan Jahnert, NTNU, “Modelling of reserve procurement and exchange of balancing services in Northern Europe: Unit commitment & Reserve procurement”, BM Workshop Schiphol 28 Oct 10
- [36] Hossein Fahramand, NTNU, “Modelling of reserve procurement and exchange of balancing services in Northern Europe: Real-time dispatch”, BM Workshop Schiphol 28 Oct 10
- [37] Reinier Van der Veen, TU Delft, “Application of agent-based modeling to the analysis of balancing market design and integration”, BM Workshop Schiphol 28 Oct 10
- [38] Alireza Abbasy, TU Delft, “Possible behavioural changes of market parties as a result of market integration”, BM Workshop Schiphol 28 Oct 10
- [39] Gerard Doorman, NTNU, ”Exchange of balancing services between synchronous systems”, Conference on ancillary services, EnergyForum, Brussels, 15 April 2010
- [40] Gerard Doorman, NTNU, “Exchange of Balancing Services between Synchronous Areas”, BKK Vårseminar, 8 April 2010
- [41] Gerard Doorman, NTNU, “Harmonization and Integration of National Balancing Markets in Europe – Regulatory Challenges”, CIGRE Seminar NTNU, 24 March 2010
- [42] Gerard Doorman, NTNU, “Hydro Power Challenges and Opportunities in the view of Energy Security & Climate Change”, Seminar on Energy Security and Climate Change, AIT, Bangkok, 11 August 2009

- [43] Rune B. Johansen, Statkraft, “AGC – views fraom Norwegian producer, BM seminar, Kvinesdal, 2008

- [44] Kristin Munthe, Statnett, “Improved balance and frequency control i\of the Nordic Power system”, BM seminar, Kvinesdal, 2008

- [45] Frank Nobel, TenneT, “LFC in the Netherlands”, BM seminar, Arnhem, NL, April 2008

- [46] Arne Festervoll, ADAPT, “Documentation and analyses of present costs”, BM seminar, Arnhem, NL, April 2008

- [47] Kjetil Uhlen, Sintef, “HVDC utilization, preliminary results”, BM seminar, Arnhem, NL, April 2008

- [48] Ove S. Grande, Sintef, “Balance mechanisms in Northern Europe”, BM seminar, Arnhem, NL, April 2008

- [49] Knut Fossdal, Statnett, “Intraday trading”, BM seminar, Arnhem, NL, April 2008