

Professor Emmanuel Thanassoulis

Associate

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Languages: English and Greek



Profile

Emmanuel is Emeritus Professor in Management Sciences at the College of Business and Social Sciences at Aston University in Birmingham, UK. He is a specialist in performance measurement and a renowned authority on the theory and application of data envelopment analysis (DEA) as a method for measuring and managing performance. He has advised on efficiency for a variety of organisations, including the Department for Education and Skills, the Home Office, HM Treasury and the Audit Commission. He has developed numerous assessment models for utilities including Royal Mail, Transco, United Utilities, Vivendi Water UK, Severn Trent Water, and Dutch and German gas and electricity transmission service operators (TSOs).

Selected professional experience

- Scientific expert to Terranets (German TSO) on modelling productivity change in German regulation (2019)
- Critique on behalf of TenneT (Dutch TSO) of the methodology of pan-European cost-efficiency benchmarking for electricity TSOs (2019)
- Scientific advice to Netze BW (German TSO), on two appeals to court against efficiency modelling used by the German energy regulator, Bundesnetzagentur (2017–20)
- Scientific adviser to Bundesverband der Energie- und Wasserwirtschaft (BDEW), representing over 1800 German energy and water companies, on its submission to the German energy regulator Bundesnetzagentur, on efficiency modelling (2017)
- Review of the regulator's total cost efficiency modelling for the Finnish energy industry (2012)
- Advice on efficiency issues for a Belgian energy distribution network (2011–12)
- Efficiency advice for Thames Water (2008–10)
- Assessments of efficiencies of delivery offices and mail centres for Royal Mail (2005–10)
- Advised Vivendi Water UK for the Competition Commission merger inquiry with Southern Water (2002)
- Assessment of the cost efficiencies of gas distribution zones for Transco (2000)
- Development of econometric models on capital maintenance in the water industry, on behalf of Severn Trent Water (1997)

- Comparative efficiencies of water companies using operating and capital costs for Ofwat, and consultant to Ofwat for the 1999 periodic review of water companies (1996–99)

Selected publications

- Thanassoulis, E., Takamura-Tweedy, A., Patel, M. and Rao, S. (2020), 'A Method for Identifying Cost-Efficient Practices in the Treatment of Thoracic Empyema', *British Journal of Healthcare Management*, 26:7, July.
- Maziotis, A., Saal, D.S., Thanassoulis, E. and Molinos, M. (2018), 'Profit change and its drivers in the English and Welsh water industry: is output quality important?', *Water Policy*, 20:5, pp. 995–1012.
- Maziotis, A., Saal, D.S., Thanassoulis, E. and Molinos-Senante, M. (2016), 'Price-cap regulation in the English and Welsh water industry: A proposal for measuring productivity performance', *Utilities Policy*, 41, pp. 22–30.
- Thanassoulis, E., De Witte, K., Johnes, J., Johnes, G., Karagiannis, G. and Portela, C.S. (2016), 'Applications of Data Envelopment Analysis in Education' in J. Zhu, ed., *Data Envelopment Analysis: A handbook of Empirical Studies and Applications*, International Series in Operations Research and Management Science, 238, Springer.
- Maziotis, A., Saal, D., Thanassoulis, E. and Molinos, M. (2014), 'Profit, productivity and price performance changes in the water and sewerage industry: an empirical application for England and Wales', *Clean Technologies and Environmental Policy*, 10/2014, 17:4.
- Portela, M.C.S. and Thanassoulis, E. (2014), 'Economic efficiency when prices are not fixed: Disentangling quantity and price efficiency', *Omega: The International Journal of Management Science*, 47, pp. 36–44.
- Thanassoulis, E., Portela, M. and Graveney, M. (2012), 'Estimating the Scope for Savings in referrals and drug prescription costs in the General Practice, units of a UK Primary Care Trust', *European Journal of Operational Research*, 221:2, 1 September 2012, pp. 432–444.
- Silva Portela, M.C.A., Thanassoulis, E., Horncastle, A. and Maugg, T. (2011), 'Productivity change in the Water Industry in England and Wales: Application of the Meta-Malmquist Index', *Journal of the Operational Research Society*, 62, pp. 2173–88.
- Emrouznejad, A. and Thanassoulis, E. (2010), 'Measurement of productivity index with dynamic DEA', *International Journal of Operational Research*, 8:2, pp. 247–60, May.
- Silva Portela, M.C. and Thanassoulis, E. (2008), 'Malmquist-type indices in the presence of negative data: An application to bank branches', *Journal of Banking and Finance*, 34:7, pp. 1472–83.
- Johnes, G., Johnes, J. and Thanassoulis, E. (2008), 'An Analysis of Costs in Institutions of Higher Education in England', *Studies in Higher Education*, 33:5, pp. 527–49, October.
- Thanassoulis, E., Portela, M.C.S. and Despić, O. (2008), 'DEA – The Mathematical Programming Approach to Efficiency Analysis', in H. Fried, K. Lovell and S. Schmidt, eds, *The Measurement of Productive Efficiency and Productivity Growth*, Oxford University Press.
- Thanassoulis, E. (2007), 'Improving Discrimination in Data Envelopment Analysis: Some Practical Suggestions', *Journal of Productivity Analysis*, 28, pp. 117–26.
- Maniadakis, N. and Thanassoulis, E. (2004), 'A Cost Malmquist Productivity Index', *European Journal of Operational Research*, 154:2, pp. 396–409.

Qualifications

- PhD Industrial and Business Studies, University of Warwick
- MSc Management Science and Operational Research, University of Warwick
- BSc Engineering with Operational Research, University of Sussex