

## **Curriculum Vitae: Valentin Bertsch**

### **Personal Data**

Name: Valentin Bertsch  
Born: 20 April 1977, Koblenz, Germany  
Nationality: German

### **Career**

- Since 09/2019 Professor of Energy Systems and Energy Economics, Ruhr-Universität Bochum, Germany  
Research Affiliate, Economic and Social Research Institute (ESRI), Dublin
- 2018 – 2019 Head of Energy Systems Analysis Department, German Aerospace Center (DLR), Germany  
Professor of Energy Systems Analysis, University of Stuttgart, Germany  
Member of the board of directors, Stuttgart Research Initiative on Integrated Systems Analysis for Energy (STRise)
- 2015 – 2018 Associate Research Professor for Energy Economics, Economic and Social Research Institute (ESRI), Dublin / Adjunct Professor, Department of Economics, Trinity College Dublin, Ireland:
- Research Area Coordinator Energy and Environment
  - Director of the Energy Policy Research Centre (EPRC)
  - Funded Investigator and Executive Committee Member of the “Energy Systems Integration Partnership Programme” (ESIPP), funded by Science Foundation Ireland (SFI) and Industry
  - Funded Investigator and Executive Committee Member of the trilateral research alliance (Ireland, Northern Ireland, USA) “Collaborative REsearch of Decentralisation, Electrification, Communications and Economics” (CREDENCE), funded by Science Foundation Ireland (SFI), Department for Employment and Learning (DELNI) and National Science Foundation (NSF)
  - Acquisition of national and international research grants
- 2012 – 2015 “Akademischer Rat” (equivalent to Assistant Professor Level); Head of the research group “Distributed Energy Systems and Networks”, Chair of Energy Economics, Karlsruhe Institute of Technology (KIT):
- Establishment and management of the research group
  - Acquisition and management of competitive research grants in the field of distributed energy systems and networks
  - Leading scientist in the large-scale Helmholtz research programme “Storage and Cross-linked Infrastructures”
  - Establishment and evaluation of the course “Energy Systems Analysis” (in English) for Master students from different (national and international) engineering programmes
  - Significant contribution to the course programme in energy economics, including supervision of seminars and of numerous Bachelor and Master thesis projects

- 2008 – 2012 Senior analyst, Analysis and evaluation of energy markets, EnBW Trading GmbH, Karlsruhe, Germany:
- Coordination of different projects focussing on the evaluation of large-scale investment and disinvestment projects
  - Development and improvement of analytical methods and tools
  - Team leader “Foreign Markets Analysis”
  - Development of long-term planning scenarios focussing on electricity markets in Turkey, Eastern Europe and Germany
  - Knowledge transfer on energy economic analysis and evaluation techniques, development and realisation of training courses for colleagues in the joint venture “Borusan EnBW Enerji”
- 2007 – 2008 Deputy head of the research group “Technology Evaluation and Risk Management”, Institute for Industrial Production (IIP), University of Karlsruhe (TH), Germany
- 2004 – 2008 Research Assistant, Institute for Industrial Production (IIP) and French-German Institute for Environmental Research, University of Karlsruhe (TH), Germany
- 2001 Internship, “Corporate Technology” R&D Department, Siemens AG, Munich, Germany
- 1999 – 2000 Student Assistant, Institute of Applied Mathematics, University of Karlsruhe (TH), Germany
- 1996 – 1997 Paramedic, German Red Cross Montabaur, Germany

### Education

- 2014 Certificate in University Didactic, Hochschuldidaktikzentrum Baden-Württemberg, Germany
- 2007 PhD with distinction in Economics (“Dr. rer.pol.”), University of Karlsruhe (TH), Title: “Uncertainty Handling in Multi-Attribute Decision Support for Industrial Risk Management”
- 2002 – 2003 Diploma thesis (in collaboration with “Corporate Technology” R&D Department, Siemens AG, Munich), Title: “Analysis and implementation of kinetic schemes for simulating compressible flows of ideal and real fluids”
- 1997 – 2003 Studies of Applied Mathematics, University of Karlsruhe (TH) and “Université Joseph Fourier”, Grenoble, France
- 1996 Graduation from German Secondary School (“Abitur”, Max-von-Laue-Gymnasium, Koblenz)

### Current research focus

- Energy Systems Integration and Energy Systems Analysis under consideration of grid constraints
- System integration of renewables, storage technologies and (flexible) loads
- Economics of energy markets and systems
- Assessment of and decision support in relation to energy technologies and policies under consideration of multiple criteria
  - o Techno-economic assessment of energy technologies and policies
  - o Social acceptance of renewable energy and energy infrastructure technologies and policies
  - o Behavioural aspects of consumer decisions related to energy tariff and technology adoption and use
- Analysis of risk and resilience of energy supply systems in smart cities

**Stays abroad**

Since 11/2015	ESRI and Trinity College Dublin, Ireland
2008 – 2011	Several weeks with Borusan EnBW Enerji, Istanbul, Turkey
2006 – 2008	Several weeks with Manchester Business School (MBS), Manchester, UK
2000 – 2001	Student of Mathematics, “Université Joseph Fourier”, Grenoble, France, scholarship holder of the Franco-German University (FGU)
Aug – Nov 1993	Kelowna Secondary School, British Columbia (B.C.), Canada

**Language skills**

German	Mother tongue
English	Business fluent in written and spoken
French	Fluent in written and spoken
Spanish	Basic knowledge

**Other activities in the scientific community**

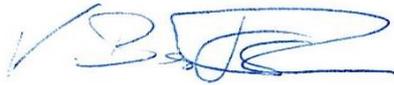
Active Memberships	GOR, INFORMS, OR Society (UK), VHB, International Association for Energy Economics (IAEE), International Society on MCDM, Energy and Social Science Network (EASSN), European Working Group on Behavioural OR
Sessions	Organiser and chair of diverse tracks and sessions, e.g., international MCDM conferences, EURO, IAEE, GOR
Conferences	Organising Committee, 2 <sup>nd</sup> International Conference on Energy Systems Integration, March 2019, London Organising Committee, 2 <sup>nd</sup> International Symposium on Energy System Optimization (ISESO), October 2018, Karlsruhe Conference Chair, International Symposium on Energy System Optimization (ISESO), November 2015, Heidelberg International Scientific Committee, 14 <sup>th</sup> International Conference on the European Energy Market, Dresden, Germany, 2017
Editorial Board	European Journal of Industrial Engineering (since 2018)
Guest Editor	EURO Journal on Decision Processes
Reviewer	Amongst others: Energy Policy, Applied Energy, IET Renewable Power Generation, Energy Systems, Smart Cities and Society, J. of Cleaner Production, Int. J. of Energy Sector Management, Technologies and Economics of Smart Grids, Expert Systems, European J. of Oper. Res., Computers & Oper. Res.
Scientific Advisory Board	Karlsruhe Institute of Technology (KIT), Research Field Energy

**Awards and Honours (Selection)**

2017	Fellow of the Energy Industry Programme, RUDN University, Moscow
2015, 2016, 2017	Teaching Award, KIT, Department of Economics and Management
2014	HECTOR Teaching Award 2013/2014, Master Programme Energy Engineering and Management, HECTOR School Karlsruhe
2007	Best PhD Student Paper Award, 4 <sup>th</sup> Int. Conf. on Information Systems for Crisis Response and Management, Delft, Netherlands

**Offered Professorship Positions**

- 2018 Full Professor of Energy Systems and Energy Economics, Ruhr-Universität Bochum, Germany
- 2017 Full Professor of Energy Systems Analysis, University of Stuttgart and German Aerospace Centre (DLR), Germany
- 2015 Associate Research Professor for Energy Economics, Economic and Social Research Institute and Trinity College Dublin, Ireland
- 2014 Full Professor for Sustainable Energy Management, University of Klagenfurt, Austria



Valentin Bertsch, Bochum, 23 September 2019