

**Abbreviated Curriculum Vitae**  
**Dr. Benjamin K. Sovacool**

**STATISTICS (as of January 2023)**

- 22 authored, co-authored, edited or co-edited books
- 544 refereed articles
- 62 book chapters
- 66 commissioned reports
- H-index of 82 (Scopus)
- 26,400 citations (Scopus)
- H-index of 117 (Google Scholar)
- i-10 index of 464 (Google Scholar)
- 51,400 citations (Google Scholar)
- 3,229 research interviews conducted at 1,954 institutions
- 69 focus groups managed
- 34,529 surveys distributed
- 194 field research site visits
- 163 articles or reports co-written with students
- 4 academic books co-written with students
- Articles published with 318 colleagues from 40 nations
- 102 keynote speeches or plenary addresses

**EDUCATION**

- 2006 Ph.D., Science and Technology Studies, Virginia Tech, Blacksburg, VA.  
2005 M.S./Graduate Certificates, Science Policy, Virginia Tech, Blacksburg, VA.  
2003 M.A., Communication Studies, Wayne State University, Detroit, MI.  
2001 B.A., Philosophy and Communication Studies, John Carroll University, Cleveland, OH.

**PROFESSIONAL EMPLOYMENT**

- 2022- Professor of Earth and Environment, Founding Director of the Institute for Global Sustainability, Boston University, United States
- 2015-2021 Professor of Energy Policy, Director of the Sussex Energy Group (2015-2021), SPRU, University of Sussex, United Kingdom
- 2015-2019 Director of the Center on Innovation and Energy Demand (CIED), University of Oxford, University of Manchester, and University of Sussex, United Kingdom
- 2013-2021 University Distinguished Professor (2020-) and Professor (2013-2019) of Business and Social Sciences, Director of the Center for Energy Technologies (2013-2020), Department of Business Development and Technology, Aarhus University, Denmark
- 2011-2015 Associate Professor of Law, Institute for Energy & the Environment, Vermont Law School, South Royalton, VT
- 2007-2011 Assistant Professor, Lee Kuan Yew School of Public Policy, National University of Singapore
- 2007 Postdoctoral Fellow, Office for the Vice President of Research, Virginia Tech
- 2006 Eugene P. Wigner Fellow, Oak Ridge National Laboratory, Oak Ridge, TN.

**NOTABLE ACTIVITIES**

- 2018-2022 Lead Author, Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report (AR6) Working Group III (Mitigation) Chapter 4 on “Mitigation and development pathways in the near-to mid-term,” Geneva, Switzerland, also Contributing Author to Chapters 6 (Energy) and 10 (Transport)
- 2013-2014 Expert Consultant for Energy Access, International Bank for Reconstruction and Development and the International Development Association, World Bank Group, Washington, DC
- 2013 Expert for Renewable Energy Infrastructure, Research Competitiveness Program of the American Association for the Advancement of Science (AAAS), Washington, DC, United States
- 2012-2013 International Economist, Climate Change and Energy Security, TA-8141 REG: Asian Development Outlook 2013 (46184-001), Asian Development Bank, Manila, Philippines
- 2012-2013 Consultant Researcher for Sustainable Energy for All, United Nations Development Program Asia Pacific Regional Center Environment and Energy Team, Bangkok, Thailand
- 2009-2011 Lead Analyst, Knowledge Module 5 (Energy Security, Markets, and Interdependence) of the Global Energy Assessment, International Institute for Applied Systems and Analysis (IIASA), Vienna, Austria
- 2010-2011 Lead Analyst and International Specialist, TA-6424 (REG): Enhancing Effective Regulation of Water and Energy Infrastructure and Utilities Services, Asian Development Bank, Manila, Philippines

## **SELECTED PUBLICATIONS**

### **Books**

*Empowering the Great Energy Transition: Policy for a Low-Carbon Future*, with Scott V. Valentine and Marilyn A. Brown (New York: Columbia University Press, 2020)

*Fact and Fiction in Global Energy Policy: Fifteen Contentious Questions*, with Marilyn A. Brown and Scott V. Valentine (Baltimore: Johns Hopkins University Press, 2016)

*Global Energy Justice: Problems, Principles, and Practices*, with Michael Dworkin (Cambridge: Cambridge University Press, 2014)

*Energy Poverty: Global Challenges and Local Solutions*, with Antoine Halff and Jon Rozhon (Oxford: Oxford University Press, 2014)

*Climate Change and Global Energy Security: Technology and Policy Options*, with Marilyn A. Brown (Cambridge, MA: MIT Press, 2011)

### **Articles (\* co-authored with one or more other people)**

\*"Industrial clusters for deep decarbonization," *Science* 378 (6620) (November 10, 2022), pp. 601-604.

\* "Equity, technological innovation and sustainable behaviour in a low-carbon future," *Nature Human Behavior* 6 (March, 2022), pp. 326-337.

\*"Navigating implementation dilemmas in technology-forcing policies," *Research Policy* 50(7) (September, 2021), 104272, pp. 1-19.

\*"Dispossessed by decarbonisation: Reducing vulnerability, injustice, and inequality in the lived experience of low-carbon pathways," *World Development* 131 (January, 2021)

\*"Differences in carbon emissions reduction between countries pursuing renewable electricity versus nuclear power," *Nature Energy* 5(11) (November, 2020) 928–935.

\*"Culture and low-carbon energy transitions," *Nature Sustainability* 3 (September, 2020), pp. 685–693.

\* "Sustainable minerals and metals for a low-carbon future," *Science* 367 (6473) (January 3, 2020), pp. 30-33.

\*"The whole systems energy injustice of four European low-carbon transitions," *Global Environmental Change* 58 (September, 2019), 101958, pp. 1-15.

\*"An agenda for sustainability transitions research: State of the art and future directions," *Environmental Innovation and Societal Transitions* 31 (June, 2019), pp. 1-32.

\*"Decarbonisation and its discontents: A critical energy justice perspective on four low-carbon transitions," *Climatic Change* 155(4) (August, 2019), pp. 581–619.

\*"The demographics of decarbonizing transport: The influence of gender, education, occupation, age, and household size on electric mobility preferences in the Nordic region," *Global Environmental Change* 52 (September, 2018), pp. 86-100.

\*"Sociotechnical transitions for deep decarbonisation," *Science* 357 (6357) (September 22, 2017), pp. 1242-1244.

\* "Ordering theories: Typologies and conceptual frameworks for sociotechnical change," *Social Studies of Science* 47(5) (October, 2017), pp. 703-750.

\*"Climate change adaptation and the Least Developed Countries Fund (LDCF): Qualitative insights from policy implementation in the Asia-Pacific," *Climatic Change* 140(2) (January, 2017), pp. 209-226.

\*"Towards a Science of Climate and Energy Choices," *Nature Climate Change* 6 (June, 2016), pp. 547-555.

\*"Energy Decisions Reframed as Justice and Ethical concerns," *Nature Energy* 16024 (2016), pp. 1-6.

\*"The Political Economy of Climate Adaptation," *Nature Climate Change* 5 (7) (July, 2015), pp. 616-618.

"Energy Studies Need Social Science," *Nature* 511 (7511) (July 31, 2014), pp. 529-530.

"What Are We Doing Here? Analyzing Fifteen Years of Energy Scholarship and Proposing a Social Science Research Agenda," *Energy Research & Social Science* 1 (March, 2014), pp. 1-29.

"An International Assessment of Energy Security Performance," *Ecological Economics* 88 (April, 2013), pp. 148-158.

"Deploying Off-Grid Technology to Eradicate Energy Poverty," *Science* 338 (October 5, 2012), pp. 47-48

\*"Competing Dimensions of Energy Security: An International Review," *Annual Review of Environment and Resources* 35 (November, 2010), pp. 77-108

- \*“Twelve Metropolitan Carbon Footprints: A Preliminary Global Comparative Assessment,” *Energy Policy* 38(9) (September, 2010), pp. 4856-4869
- “Rejecting Renewables: The Socio-technical Impediments to Renewable Electricity in the United States,” *Energy Policy* 37(11) (November, 2009), pp. 4500-4513
- \*“Beyond Batteries: An Examination of the Benefits and Barriers to Plug-in Hybrid Electric Vehicles (PHEVs) and a Vehicle-to-Grid (V2G) Transition,” *Energy Policy* 37(3) (March, 2009), pp. 1095-1103
- “Valuing the Greenhouse Gas Emissions from Nuclear Power: A Critical Survey,” *Energy Policy* 36 (8) (August, 2008), pp. 2940-2953

### **HONORS & AWARDS**

- 2022 “Professional Geographer Award” from the American Association of Geographers
- 2020 Fellow of the Academy of Social Sciences, London, UK
- 2019, 2020, 2021 and 2022 Web of Science Highly Cited Researcher in the category of Social Science, Thomson Reuters and Clarivate Analytics, Philadelphia, United States
- 2019 USERN Prize for “Social justice in an era of climate change and energy scarcity,” Budapest, Hungary
- 2019 Distinguished Graduate Alumni Achievement Award, Virginia Tech, Blacksburg, VA.
- 2015 Dedication to Justice Award, American Bar Association, Chicago, IL, USA
- 2014 Distinguished Visiting Energy Professorship, Environmental Law Center, Vermont Law School, South Royalton, VT, USA.
- 2007 “Outstanding Dissertation” in the Social Sciences and Humanities, awarded by the Graduate School of Virginia Tech, Blacksburg, VA, USA.
- 2007 Johnson Award for Best Paper in Ethics and Accountability, awarded by the Johnson Institute, University of Pittsburgh, Pittsburgh, PA, USA.
- 2006 Paul T. Hiser Exemplary Publication Award for the “Best Article of the Year,” awarded by the Epsilon Pi Tau Honor Society, USA.

### **SELECTED GRANTS and CONTRACTS**

<b>Year</b>	<b>Amount</b>	<b>Name</b>	<b>Awarded to</b>	<b>Role</b>
2021-2027	€9,187,902 (\$10,980,500)	GeoEngineering and Negative Emissions pathways in Europe (GENIE), European Research Council (ERC) Synergy Grant 2020	Aarhus University	PI
2020-2024	£29,700,000 (\$38,691,900)	The Industrial Decarbonisation Research and Innovation Centre (IDRIC), ESRC and EPSRC Industrial Strategy Challenge Fund	University of Sussex	Research Co-Director
2017-2020	€6,389,848 (\$7,200,000)	“Innovation pathways, strategies and policies for the Low-Carbon Transition in Europe (INNOPATHS),” Horizon 2020 Pathways towards Decarbonisation Grant	University of Sussex	Co-I
2015-2019	DKK 8,582,461 (\$1,590,000)	“Societal Implications of a Vehicle-to-Grid Transition in Northern Europe: A Comparative, Mixed-Methods Study of the Nordic Region,” Danish Council for Independent Research (DFF) Sapere Aude Grant	Center for Energy Technologies, Aarhus University	PI
2013-2018	£3,652,309 (\$5,600,000)	“Center on Innovation and Energy Demand,” Research Centre on End Use Energy Demand, RCUK Energy Programme. Grant	University of Sussex	PI/Director
2010-2012	\$250,400	“Energy Security Trend Monitoring for Southeast Asia,” Rockefeller Foundation Grant RES2009315	National University of Singapore	Co-I
2007-2009	\$263,029	“Project on Energy Policy and Governance,” Academic Research Council, Ministry of Education (Singapore) Grant T208A4109	National University of Singapore	Co-I
2003-2006	\$470,000	“A Holistic Approach to the Design and Management of a Secure and Efficient Distributed Generation Power System,” National Science Foundation (United States) Electric Power Networks Efficiency and Security Program Grant ECS-0323344	Consortium on Energy Restructuring, Virginia Polytechnic Institute & State University	Graduate Student