Emily Grubert Associate Professor of Sustainable Energy Policy Keough School of Global Affairs

CONTACT INFORMATION

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I. EARNED DEGREES

PhD **Stanford University**, Environment and Resources, 2017

Dissertation: Improving Life Cycle Assessment as a Decision Support Tool

Using Empirical Data for Multicriteria Prioritization Co-advisors: Adam Brandt, Mark Algee-Hewitt

MS The University of Texas at Austin, Environmental and Water Resources

Engineering, 2011

Thesis: Freshwater on the Island of Maui: System Interactions, Supply, and

Demand

Advisor: Michael Webber

MA The University of Texas at Austin, Energy and Earth Resources, 2010

Thesis: Maui's Freshwater: Status, Allocation, and Management for

Sustainability

Advisor: Michael Webber

BS Stanford University, Mathematics (Honors), Atmosphere/Energy Engineering

(Honors), Biological Sciences (Minor), 2009

II. EMPLOYMENT HISTORY

2022- **University of Notre Dame**, Associate Professor of Sustainable Energy Policy, Keough School of Global Affairs

2021-22 **Deputy Assistant Secretary**, Office of Carbon Management, United States Department of Energy

2019-22 **Georgia Institute of Technology**, Assistant Professor, Civil and Environmental Engineering

2021-22: Olmsted Early-Career Professor of Civil and Environmental

Engineering

CEE Affinity Groups: Construction and Infrastructure Systems Engineering,

Environmental Engineering

Courtesy Appointment: Public Policy

Program Faculty Member: Computational Science and Engineering

2018 **University of California, Berkeley**, Lecturer, Civil and Environmental Engineering

2017-18 **University of California, Berkeley**, Postdoctoral Scholar, Civil and Environmental Engineering

2011-13 Business Analyst and Junior Engagement Manager, McKinsey & Company

III. HONORS AND AWARDS

A. INTERNATIONAL OR NATIONAL AWARDS

2022	Distinguished Lecturer, American Association of Petroleum Geologists (declined)
2021	Clean Energy Leadership Institute Fellow, National Cohort
2020	Trusted Reviewer (reflecting "exceptionally high level of peer review competency"), Institute of Physics
2017	Reviewer of the Year, Environmental Research Letters

B. UNIVERSITY OR SCHOOL AWARDS

2020-21	Outstanding Faculty/Staff Member, Association of Environmental Engineers and Scientists—Georgia Tech student chapter
2020-21	Diversity and Inclusion Fellow, Georgia Institute of Technology
2019-20	Class of 1969 Teaching Fellow, Georgia Institute of Technology

IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

coauthors: * indicates supervised undergraduate; [@] indicates supervised graduate student; ⁺ indicates supervised postdoc

A. PUBLISHED BOOKS, BOOK CHAPTERS, AND EDITED VOLUMES

A1. Refereed Book Chapters

- [2] Grubert, E. 2020. "Social Science and Energy Policymaking: The Need for Social Scientists in Developing Social Life Cycle Assessment." In: *Energy Impacts: A Multidisciplinary Exploration of North American Energy Development*. Eds: J. Jacquet, J. Haggerty, and G. Theodori. Utah State University Press.
- [1] Haya, B., A. Strong, E. Grubert, and D. Cullenward. 2015. "Carbon Offsets in California: Science in the Policy Development Process." In: Communicating Climate Change and Natural Hazard Risk and Cultivating Resilience: Case Studies for a Multi-disciplinary Approach. Eds: Yekaterina Kontar et al. Springer.

A2. Other Parts of Books

[1] Lovins, A. and Rocky Mountain Institute. September 2011. Reinventing Fire: Bold Business Solutions for the New Energy Era. Chelsea Green Publishing Company, Vermont. (E. Grubert as research contributor, natural gas and coal systems)

B. REFERED PUBLICATIONS AND SUBMITTED ARTICLES

B1. Published and Accepted Journal Articles

- [60] Ravikumar, A.P., E. Baker, A. Bates, D. Nock, D. Venkataraman, T. Johnson, M. Ash, S.Z. Attari, K. Bowie, S. Carley, S. Castellanos, M. Cha, D.L. Clark, D. Deane-Ryan, D. Djokic, J.C. Ford, A. Goldstein, E. Grubert, L. Hu, D.M. Kammen, U. Kosar, C. Miller, M. Pastor, and M. Tuominen. 2022. Enabling an Equitable Energy Transition Through Inclusive Research. Accepted, *Nature Energy*.
- [59] Raimi, D., E. Grubert, J. Higdon, G. Metcalf, S. Pesek, and D. Singh. 2022. The fiscal implications of the U.S. transition away from fossil fuels. Accepted, *Review of Environmental Economics and Policy*.
- [58] Khan, Z., E. Abraham, S. Aggarwal, M. Ahmad, R. Arguellos, M. Babbar-Sebens, J. Bereslawski, J. Bielicki, P. Campana, M. Silva Carrazzone, H. Castanier, F. Chang, P. Collins, A. Conchado, K. Dagani, B. Daher, S. Dekker, R. Delgado, F. Diuana, J. Doelman, A. Elshorbagy, C. Fan, R. Gaudioso, S. Gebrechorkos, H. Geli, E. Grubert, D. Huang, T. Huang, A. Ilyas, A. Ivakhnenko, G. Jewitt, M. Ferrerira dos Santos, J. Jones, E. Kellner, E. Krueger, I. Kumar, J. Lamontagne,

- A. Lansu, S. Lee, R. Li, P. Linares, D. Marazza, M. Mascari, R. McManamay, M. Meng, S. Mereu, F. Miralles-Wilhelm, R. Mohtar, A. Muhammad, A. Opejin, S. Pande, S. Parkinson, R. Payet-Burin, M. Ramdas, E. Ramos, S. Ray, P. Roberts, J. Sampedro, K. Sanders, M. Saray, J. Schmidt, M. Shanafield, S. Siddiqui, M. Suriano, M. Taniguchi, A. Trabucco, M. Tuninetti, A. Vinca, B. Weeser, D. White, T. Wild, K. Yadav, N. Yogeswaran, T. Yokohata, and Q. Yue. 2022. Emerging themes and future directions of multi-sector nexus research and implementation. Accepted, *Frontiers in Environmental Science*.
- [57] Grubert, E. 2022. Yellow, Red, and Brown Energy: Leveraging Water Footprinting Concepts for Decarbonizing Energy Systems. Accepted, *Environment, Development and Sustainability*.
- [56] *Marshall, A. and E. Grubert. 2022. Hydroelectricity modeling for low-carbon and no-carbon grids: Empirical operational parameters for optimization and dispatch models. *Earth's Future*. DOI: 10.1029/2021EF002503.
- [55] Grubert, E. and [®]M. Zacarias. 2022. Paradigm shifts for environmental assessment of decarbonizing energy systems: Emerging dominance of embodied impacts and design-oriented decision support needs. *Renewable and Sustainable Energy Reviews*. DOI: 10.1016/j.rser.2022.112208.
- [54] Grubert, E. and S. Hastings-Simon. 2022. Designing the mid-transition: A review of medium-term challenges for coordinated decarbonization in the United States. WIREs Climate Change. DOI: 10.1002/wcc.768. (invited review)
- [53] *Reinhart, K. and E. Grubert. 2022. How Much New Forest Land Would It Take to Offset a Coal Plant's Greenhouse Gas Emissions? An Engineering Case Study of Georgia's Plant Scherer. Case Studies in the Environment. DOI: 10.1525/cse.2022.1552208.
- [52] Gallo, E., K. Spahr, E. Grubert, and T. Hogue. 2022. Improving the Decision-making Process for Stormwater Management Using Life Cycle Costs and a Benefit Analysis. *Journal of Sustainable Water in the Built Environment (ASCE)*. DOI: 10.1061/JSWBAY.0000977.
- [51] Grubert, E. and [†]A. Marshall. 2021. Water for Energy: Characterizing Coevolving Energy and Water Systems under Twin Climate and Energy System Nonstationarities. *WIREs Water*. DOI:10.1002/wat2.1576. (invited review)
- [50] *Mulrow, J., *Gali, M., and E. Grubert. 2021. The Cyber-Consciousness of Environmental Assessment: A Review of Environmental Assessments of Digitalized Technologies. *Environmental Research Letters*. DOI:10.1088/1748-9326/ac413b. (invited review)
- [49] Glazer, Y., D. Tremaine, J. Banner, M. Cook, R. Mace, J. Nielsen-Gammon, E. Grubert, K. Kramer, A. Stoner, B. Wyatt, A. Mayer, T. Beach, R. Correll, M. Webber. 2021. Winter Storm Uri: A test of Texas' water infrastructure and water resource resilience to extreme winter weather events. *Journal of Extreme Events*. DOI: 10.1142/S2345737621500226.
- [48] [®]Cohen, A., G. Chen, E. Berger, S. Warrier, G. Lan, E. Grubert, F. Dellaert, and Y. Chen. 2021. Dynamically Controlled Environment Agriculture: Integrating Machine Learning and Mechanistic and Physiological Models for Sustainable Food Cultivation. ACS ES&T Engineering. DOI:10.1021/acsestengg.1c00269. (Editor's Choice)

- [47] [®]Maxim, A. and E. Grubert. 2021. Effects of Climate Migration on Town-to-City Transitions in the United States: Proactive Investments in Civil Infrastructure for Resilience and Sustainability. Environmental Research: Infrastructure and Sustainability. DOI: 10.1088/2634-4505/ac33ef.
- [46] Grubert, E. 2021. Beyond Carbon in Socioenvironmental Assessment: Life Cycle Assessment as a Decision Support Tool for Net-Zero Energy Systems. *Energy and Climate Change*. DOI: 10.1016/j.egycc.2021.100061.
- [45] [®]Maxim, A. and E. Grubert. 2021. Anticipating Climate-related Changes to Residential Energy Burden in the United States: Advance Planning for Equity and Resilience. *Environmental Justice*. DOI: 10.1089/env.2021.0056.
- [44] *Lolli, F., K. Kurtis, and E. Grubert. 2021. How Important Are Electricity Demand Charges for Cost Estimates? An Industrial Electrification Case Study. *The Electricity Journal*. DOI: 10.1016/j.tej.2021.107011.
- [43] [®]Burns, D. and E. Grubert. 2021. Contribution of Regionalized Methane Emissions to Natural Gas-Fired Electricity and Carbon Capture in the United States. *Environmental Science & Technology Letters*. DOI: 10.1021/acs.estlett.1c00531.
- [42] Grubert, E. 2021. Emissions Projections for US Utilities Through 2050. Environmental Research Letters. DOI: 10.1088/1748-9326/ac1628.
- [41] Broesicke, O., J. Yan, V. Thomas, E. Grubert, S. Derrible, and J. Crittenden. 2021. Combined Heat and Power May Conflict with Decarbonization Goals—Air Emissions of Natural Gas Combined Cycle Power versus Combined Heat and Power Systems for Commercial Buildings. *Environmental Science & Technology*. DOI: 10.1021/acs.est.1c00980.
- [40] *Schmidt, I. and E. Grubert. 2021. Effects of fuel cost and driving behaviors on operational costs of gasoline and electric vehicles in the US. *IOP SciNotes*. DOI: 10.1088/2633-1357/ac10bd.
- [39] Busby, J., K. Baker, M. Bazilian, A. Gilbert, E. Grubert, V. Rai, J. Rhodes, S. Shidore, C. Smith, and M. Webber. 2021. Cascading Risks: Understanding the 2021 Winter Blackout in Texas. *Energy Research and Social Science*. DOI: 10.1016/j.erss.2021.102106. (reached the Reddit front page in r/science)
- [38] *Zacarias, M. and E. Grubert. 2021. Effects of implausible power plant lifetime assumptions on US federal energy system projected costs, greenhouse gas emissions, air pollution, and water use. *Environmental Research: Infrastructure and Sustainability*. DOI: 10.1088/2634-4505/abff0c.
- [37] Miller, S. and E. Grubert. 2021. US industrial sector decoupling of energy use and greenhouse gas emissions under COVID: durability and decarbonization. *Environmental Research Communications*. DOI: 10.1088/2515-7620/abf0f2.
- [36] Burns, D. and E. Grubert. 2021. Attribution of Production-Stage Methane Leakage to Assess Spatial Variability in the Climate Intensity of US Natural Gas Consumption. *Environmental Research Letters*. DOI: 10.1088/1748-9326/abef33.
- [35] [®]Krieger, J. and E. Grubert. 2021. Life cycle costing for distributed stormwater control measures on the gray-green continuum: A planning-level tool. *Journal of Sustainable Water in the Built Environment (ASCE)*. DOI: 10.1061/JSWBAY.0000933. (selected by ASCE as a promoted article)

- [34] Grubert, E. 2020. Fossil electricity retirement deadlines for a just transition. *Science*. DOI: 10.1126/science.abe0375.
- [33] Grubert, E. 2020. Same-plant trends in capacity factor and heat rate for US power plants, 2001-2018. *IOP SciNotes*. DOI: 10.1088/2633-1357/abb9f1.
- [32] Grubert, E., J. Stokes-Draut, A. Horvath, and W. Eisenstein. 2020. Utility-specific projections of electricity sector greenhouse gas emissions: A committed emissions model-based case study of California through 2050. *Environmental Research Letters*. DOI: 10.1088/1748-9326/abb7ad.
- [31] Haya, B., D. Cullenward, A. Strong, E. Grubert, R. Heilmayr, D. Sivas, and M. Wara. 2020. Managing Uncertainty in Carbon Offsets: Insights from California's Standardized Approach. *Climate Policy*. DOI: 10.1080/14693062.2020.1781035.
- [30] Grubert, E., E. Rogers, and K. Sanders. 2020. Consistent Terminology and Reporting are Needed to Describe Water Quantity Use. *Journal of Water Resources Planning and Management (ASCE)*. DOI: 10.1061/(ASCE)WR.1943-5452.0001241.
- [29] Grubert, E. 2020. At scale, renewable natural gas systems could be climate intensive: The influence of methane feedstock and leakage rates. *Environmental Research Letters*. DOI: 10.1088/1748-9326/ab9335.
- [28] Tarroja, B., R. Peer, K. Sanders, and E. Grubert. 2020. How do non-carbon priorities affect zero-carbon electricity systems? A case study of freshwater consumption and cost for SB100 compliance in California. *Applied Energy*. DOI: 10.1016/j.apenergy.2020.114824.
- [27] Meng, M., E. Grubert, R. Peer, and K. Sanders. 2020. Spatially allocating life cycle water use for US coal-fired electricity across producers, generators, and consumers. *Energy Technology*. DOI: 10.1002/ente.201901497.
- [26] Grubert, E. and J. Stokes-Draut. 2020. Mitigation Life Cycle Assessment: Best Practices from LCA of Energy and Water Infrastructure That Incurs Impacts to Mitigate Harm. *Energies*. DOI: 10.3390/en13040992.
- [25] Grubert, E. 2020. Conventional Hydroelectricity and the Future of Energy: Linking National Inventory of Dams and Energy Information Administration Data to Facilitate Analysis of Hydroelectricity. *The Electricity Journal*. DOI: 10.1016/j.tej.2019.106692.
- [24] Peer, R., E. Grubert, and K. Sanders. 2019. A Regional Assessment of the Water Embedded in the US Electricity System. Environmental Research Letters. DOI: 10.1088/1748-9326/ab2daa.
- [23] Grubert, E. 2019. Every Door Direct Mail in US survey research: An anonymous census approach to mail survey sampling. *Methodological Innovations*. DOI: 10.1177/2059799119862104.
- [22] *Greer, F., *J. Chittick, *E. Jackson, *J. Mack, *M. Shortlidge, and E. Grubert. 2019. Energy and Water Efficiency in LEED: How Well are LEED Points Linked to Climate Outcomes? *Energy and Buildings*. DOI: 10.1016/j.enbuild.2019.05.010.
- [21] Grubert, E. and A. Brandt. 2019. Three Considerations for Modeling Natural Gas System Methane Emissions in Life Cycle Assessment. *Journal of Cleaner Production*. DOI: 10.1016/j.jclepro.2019.03.096.

- [20] Bell, C., K. Spahr, E. Grubert, J. Stokes-Draut, E. Gallo, J. McCray, and T. Hogue. 2018. Decision-making on the Grey-green Stormwater Infrastructure Continuum. *Journal of Sustainable Water in the Built Environment (ASCE)*. DOI: 10.1061/JSWBAY.0000871.
- [19] Grubert, E. 2018. Relational Values in Environmental Assessment: The Social Context of Environmental Impact. *Current Opinion in Environmental Sustainability*. DOI: 10.1016/j.cosust.2018.10.020.
- [18] Grubert, E. 2018. The Eagle Ford and Bakken Shale Regions of the United States: A Comparative Case Study. The Extractive Industries and Society. DOI: 10.1016/j.exis.2018.09.011.
- [17] Grubert, E. and K. Sanders. 2018. Water Use in the United States Energy System: A National Assessment and Unit Process Inventory of Water Consumption and Withdrawals. *Environmental Science & Technology (ACS)*. DOI: 10.1021/acs.est.8b00139.
- [16] Grubert, E. and M. Cook. 2017. Communication Science for Science Communication: Water Management for Oil and Natural Gas Extraction. Journal of Water Resources Planning and Management (ASCE). DOI: 10.1061/(ASCE)WR.1943-5452.0000842.
- [15] Grubert, E. and W. Skinner. 2017. A Town Divided: Community Values and Attitudes Towards Coal Seam Gas Development in Gloucester, New South Wales. Energy Research and Social Science. DOI: 10.1016/j.erss.2017.05.041.
- [14] *Drummond, V. and E. Grubert. 2017. Fault Lines: Seismicity and the Fracturing of Energy Narratives in Oklahoma. Energy Research and Social Science. DOI: 10.1016/j.erss.2017.05.039.
- [13] Grubert, E. and M. Algee-Hewitt. 2017. Villainous or Valiant? Depictions of Oil and Coal in American Fiction and Nonfiction Narratives. Energy Research and Social Science. DOI: 10.1016/j.erss.2017.05.030.
- [12] Grubert, E. 2017. The Need for a Preference-based Multicriteria Prioritization Framework in Life Cycle Sustainability Assessment. *Journal of Industrial Ecology* (ISIE). DOI: 10.1111/jiec.12631.
- [11] Grubert, E. 2017. How to Do Mail Surveys in the Digital Age: A Practical Guide. Survey Practice.
- [10] Grubert, E. 2017. Implicit prioritization in Life Cycle Assessment: Text mining and detecting metapatterns in the literature. *International Journal of Life Cycle* Assessment. DOI: 10.1007/s11367-016-1153-2.
- [9] Grubert, E. 2016. Water Consumption from Hydroelectricity in the United States. *Advances in Water Resources*. DOI: 10.1016/j.advwatres.2016.07.004.
- [8] Grubert, E. and A. Siders. 2016. Benefits and applications of interdisciplinary digital tools for environmental meta-reviews and analyses. *Environmental Research Letters*. DOI: 10.1088/1748-9326/11/9/093001. (selected for September 2016 monthly highlights)
- [7] Lukacs, H., N. M. Ardoin, and E. Grubert. 2016. Beyond formal groups: neighboring acts and watershed protection in Appalachia. *International Journal of the Commons*. DOI: 10.18352/ijc.578.

- [6] Grubert, E. and M. E. Webber. 2016. Synthetic flows for engineered systems with nonstationary parameters: A study of Maui's Wailoa Ditch. *Journal of Hydrologic Engineering (ASCE)*. DOI: 10.1061/(ASCE)HE.1943-5584.0001468.
- [5] Grubert, E. 2016. Rigor in Social Life Cycle Assessment: Improving the scientific grounding of SLCA. *International Journal of Life Cycle Assessment*. DOI: 10.1007/s11367-016-1117-6.
- [4] Grubert, E. and M. E. Webber. 2015. Energy for water and water for energy on Maui Island, Hawaii. *Environmental Research Letters*. DOI: 10.1088/1748-9326/10/6/064009.
- [3] Grubert, E., A. Stillwell, and M. E. Webber. 2014. Where does solar-aided desalination make sense? A method for identifying sustainable sites. *Desalination*. DOI: 10.1016/j.desal.2014.02.004.
- [2] Grubert, E., F. Beach, and M. E. Webber. 2012. Can switching fuels save water? A life cycle quantification of freshwater consumption for Texas coal- and natural gas-fired electricity. *Environmental Research Letters*. DOI: 10.1088/1748-9326/7/4/045801.
- [1] Grubert, E. 2012. Reserve reporting in the United States coal industry. *Energy Policy*. DOI: 10.1016/j.enpol.2012.01.035.

B2. Conference Presentation with Proceedings (Refereed)

- [14] Zerbe, E., A. Amekudzi-Kennedy, K. Haas, E. Grubert, S. Burns, A. Russell, I. Tien, K. Watkins, J. Koon, R. Simon, J. Taylor, D. Webster, and L. Rosenstein. June 2022. Early Engagement and Vertically-Integrated Learning: Developing Holistic and Entrepreneurially-Minded Engineers. *American Society for Engineering Education 2022 Annual Conference and Exposition*.
- [13] Burns, D., and E. Grubert. May 2020. Attributing Natural Gas Production to Natural Gas Users: A Geospatial Approach. Proceedings of the World Environmental and Water Resources Congress 2020. DOI: 10.1061/9780784482964.030
- [12] Cook, M., and E. Grubert. April 2017. Water Use in the Oil and Gas Industries: An Evaluation of Best Practices for Communicating with Scientists, Policymakers, and the Public. Proceedings of the Society of Petroleum Engineers Health, Safety, Security, Environment, & Social Responsibility Conference-North America. DOI: 10.2118/184431-MS
- [11] Grubert, E., D. Kelly, B. Rumbelow, and J. Wilson. May 2015. Improving Produced Water Management: A Case Study of Designing an Inland Desalination Pilot Project. Proceedings of the World Environmental and Water Resources Congress 2015. DOI: 10.1061/9780784479162.052
- [10] Grubert, E., B. Parks, E. Schneider, and S. Sekar. December 2011. Pebble Bed Modular Reactors Versus Other Generation Technologies: Costs and Challenges for South Africa. *Proceedings of GLOBAL 2011*. Paper 391144
- [9] Grubert, E., C. King, and M. E. Webber. November 2011. Water for Biomass-based Energy on Maui, Hawaii. Proceedings of the ASME 2011 International Mechanical Engineering Congress and Exposition. DOI: 10.1115/IMECE2011-63199

- [8] Grubert, E. and M. E. Webber. August 2011. Water, Energy, and Land Use Planning on Maui Island, Hawaii: Estimating Surface Water Supply. *Proceedings of the ASME 2011 5th International Conference on Energy Sustainability*. DOI: 10.1115/ES2011-54332
- [7] Grubert, E. May 2011. Lifecycle Water Impacts of Coal Use in the United States. Proceedings of the World Environmental and Water Resources Congress 2011: Bearing Knowledge for Sustainability. DOI: 10.1061/41173(414)344
- [6] Grubert, E. May 2011. Modeling Maui's Freshwater System to Inform Water Resource Management. Proceedings of the World Environmental and Water Resources Congress 2011: Bearing Knowledge for Sustainability. DOI: 10.1061/41173(414)105
- [5] Phillips, R. and E. Grubert. May 2011. Water and Deforestation in Brazil: Future Challenges for Policy Implementation. Proceedings of the World Environmental and Water Resources Congress 2011: Bearing Knowledge for Sustainability. DOI: 10.1061/41173(414)129
- [4] Grubert, E. February 2011. Energy Resource Extraction, Water Resources, and a Human Right to Water in the West. "Implementing the Human Right to Water in the West: Conference Report." Willamette Law Review. Volume 48:1.
- [3] Grubert, E. September 2010. Mining-related Environmental Impacts of Carbon Mitigation: Coal-based Carbon Capture and Sequestration. *Proceedings of the World Energy Congress*.
- [2] Grubert, E. May 2010. Centralized Transportation Fuel Planning: Leveraging Californian Refineries as Transportation Utilities. *Proceedings of the ASME 2010* 4th International Conference on Energy Sustainability. DOI: 10.1115/ES2010-90027
- [1] Grubert, E. and M. E. Webber. May 2010. Water Impacts of the American Clean Energy and Security Act Renewable Portfolio Standard on Texas. *Proceedings of the ASME 2010 4th International Conference on Energy Sustainability*. DOI: 10.1115/ES2010-90029

B3. Other refereed material

- [3] Grubert, E. 2018. Civil engineering's internal skepticism on climate change. Journal of Professional Issues in Engineering Education and Practice. DOI: 10.1061/(ASCE)EI.1943-5541.0000370 (Editor-refereed)
- [2] Grubert, E. 2016. Response to "Discourse over a contested technology on Twitter: A case study of hydraulic fracturing" Word choice as political speech. *Public Understanding of Science*. DOI: 10.1177/0963662515626310 (Editorrefereed)
- [1] Emerging Leaders in Science and Society (ELISS) Fellows*. December 2015. Reimagining Epidemic Communications. *Domestic Preparedness Journal*. (*equal contributions by R. Erion, E. Grubert, S. Mosbah, M. Munyikwa, B. Paul, and C. Tran) (*Editor-refereed*)

C. OTHER PUBLICATIONS AND CREATIVE PRODUCTS

C1. Software

- [4] Grubert, E. December 2020. "The future of United States fossil fuel-fired electricity: Environmental and labor implications of retiring generators at the end of their typical lifespans." Web map.
- [3] [®]Krieger, J. and E. Grubert. May 2020. "Integrated Decision Support Tool (iDST) Life Cycle Costing Module for Distributed Stormwater Control Measures (SCMs)." Life cycle cost model.
- [2] Grubert, E. January 2019. "US power plants by capacity, age, and fuel." Web map.
- [1] Grubert, E. (contributor). October 2015. Energy Policy Simulator. Web model.

C2. Other Creative Products

- [13] Raimi, D., E. Grubert, J. Higdon, G. Metcalf, S. Pesek, and D. Singh. January 2022. "The Fiscal Implications of the US Transition away from Fossil Fuels." Resources for the Future.
- [12] Raimi, D. (editor and contributor), with A. Barone, S. Carley, D. Foster, E. Grubert, J. Haggerty, J. Higdon, M. Kearney, D. Konisky, J. Michael, G. Michaud, S. Nabahe, N. Peluso, M. Robertson, and T. Reames (contributors). April 2021. "Policy Options to Enable an Equitable Energy Transition." Resources for the Future.
- [11] Davis, S. and C. Bataille (leads) with Bazilian, M., Brouwer, J., Doig, S., Fennell, P., Gielen, D., Grubert, E., and D. Tong (contributors). "5.3 Accelerating Net-Zero Emissions Industry in the U.S." *In*: SDSN 2020. *Zero Carbon Action Plan*. New York: Sustainable Development Solutions Network (SDSN).
- [10] Grubert, E. July 2020. 'Renewable' natural gas may sound green, but it's not an antidote for climate change. *The Conversation*.
- [9] Amekudzi-Kennedy, A., S. Labi, B. Woodall, G. Marsden, and E. Grubert. April 2020. *Role of Socially-Equitable Economic Development in Creating Resilient and Sustainable Systems: COVID-19-Related Reflections*. Preprint (preprints.org).
- [8] Haya, B., D. Cullenward, A. Strong, E. Grubert, R. Heilmayr, D. Sivas, and M. Wara. August 2019. Managing Uncertainty in Carbon Offsets: Insights from California's Standardized Approach. Stanford Law School Environmental & Natural Resources Law and Policy Program Working Paper. Stanford, CA.
- [7] Grubert, E. 2018. Analyzing the Energy Sector for California Climate Investments: Literature Review of Energy Documents and GHG Electricity Emission Factors. California Air Resources Board. Berkeley, CA.
- [6] Rogers, L. and E. Grubert. 2017. *Terraforming: Art and Engineering in the Sacramento Watershed*. Green Library, Stanford University, Stanford, CA. *(Cocurator, library exhibition)*
- [5] Grubert, E., C. King, and M. E. Webber. August 2013. "Maui's Complicated Relationship With Water." Earth Magazine.
- [4] Grubert, E. August 2011. "Why Business-as-Usual Coal Consumption Could Mean Dramatic Changes." Scientific American Guest Blog: Commentary invited by editors of Scientific American.

- [3] Grubert, E. and S. Kitasei. December 2010. How Energy Choices Affect Fresh Water Supplies: A Comparison of U.S. Coal and Natural Gas. Worldwatch Institute Briefing Paper. Worldwatch Institute: Washington, D.C.
- [2] Grubert, E. January 2010. "Beat a Dead Horse or Breed Immortal Ones." Solutions. National Council for Science and the Environment.
- [1] Grubert, E. Over 60 published print columns, *The Stanford Daily* (January June 2009), *The Daily Texan* (August 2009 December 2010). Additional web columns for Americans for Energy Leadership and Elmrox (2010 2011).

D. PRESENTATIONS

D1. Keynote Addresses and Plenary Lectures

- [4] Energy Policy Research Conference. September 2018. "Water-Energy Nexus in the West, Plenary Session & Lunch." Boise, Idaho. (*Plenary moderator*)
- [3] Resources for Future Generations. June 2018. "Keynote: Estimating water usage for the US energy system: Suggestions for improving data collection and reporting." Vancouver, British Columbia. (Co-author with R. Peer, K. Sanders)
- [2] Convent of the Sacred Heart. June 2017. Commencement Address. Greenwich, Connecticut. (Individual)
- [1] Texas Leadership Society Luncheon. April 2010. Keynote Address. Austin, Texas. (Individual)

D2. Invited Conference and Workshop Presentations

- [10] International Association for Society and Natural Resources Conference. June 2021. "Natural Resource Social Science & the US Energy Transition ca. 2021." Online due to COVID-19. (Panel)
- [9] MIT Energy Conference. March 2021. "Stranded Assets." Online due to COVID-19. (Panel)
- [8] American Geophysical Union Fall Meeting. December 2019. "Conventional Hydroelectricity and Near-zero Emission Energy Systems." San Francisco, CA. (Individual)
- [7] INFORMS Annual Meeting 2019. October 2019. "How do we reconcile priorities during the energy transition?" Seattle, Washington. (*Individual*)
- [6] Solar Power and Energy Storage Mountain West. April 2019. "The Energy System is Changing." Aurora, Colorado. (*Individual*)
- [5] Southeastern Energy Conference. March 2019. "Global Electrification." Atlanta, Georgia. (*Panel*)
- [4] Data Science for Sustainability Meetup. October 2018. "The Water-Energy Nexus: Water Use for Energy Systems." San Francisco, CA. (Individual)
- [3] South by Southwest Eco. October 2013. "New Global Models: Real-Time and Local." Austin, Texas. (Panel)
- [2] Society of Women Engineers 12th Annual Conference for Women Engineers. November 2012. "Understanding the Water Implications of our Energy Choices." Houston, Texas. (*Panel*)

[1] International Student Energy Summit. June 2011. "Global Energy Dynamics: The Nexus between Energy and Water." Vancouver, Canada. (*Panel*)

D3. Conference and Workshop Presentations

- [58] *Marshall, A. and E. Grubert. December 2021. "Hydroelectricity Modeling for Low-Carbon and No-Carbon Grids: Empirical Constraints for Optimization and Dispatch Models." American Geophysical Union Fall Meeting. New Orleans, LA. (Oral)
- [57] [®]Ha, S. and E. Grubert. June 2021. "Understanding the Public Attitudes towards the Clean Power Plan Using Natural Language Processing and Deep Learning." International Association for Society and Natural Resources Conference. Online due to COVID-19. (Oral)
- [56] Grubert, E. June 2021. "The Climate Implications of Renewable Natural Gas." World Environmental and Water Resources Congress. Online due to COVID-19. (Oral)
- [55] Grubert, E. June 2021. "Decarbonization and facility closures: planning for a just transition away from fossil fuels." World Environmental and Water Resources Congress. Online due to COVID-19. (Oral)
- [54] Grubert, E. May 2021. "Fossil fuel retirement deadlines for a just transition: Implications for the Western US." Pacific Northwest Regional Economic Conference. Online due to COVID-19. (Oral, invited)
- [53] Grubert, E. February 2021. "Sustainability Assessment Beyond Carbon." Second Food-Energy-Water Nexus Conference. Online due to COVID-19. (Oral, invited)
- [52] Gallo, E., K. Spahr, E. Grubert, and T. Hogue. December 2020. "Optimizing between green and grey stormwater infrastructure using hydrologic modeling, life cycle costs, and a benefit analysis." American Geophysical Union Fall Meeting. Online due to COVID-19. (Oral)
- [51] Tarroja, B., R. Peer, K. Sanders, and E. Grubert. December 2020. "Assessing the influence of freshwater consumption priorities on zero-carbon electricity planning: A case of Senate Bill 100 compliance in California." American Geophysical Union Fall Meeting. Online due to COVID-19. (Poster)
- [50] [@]Maxim, A. and E. Grubert. December 2020. "Assessing Impacts of Climate Change and Climate Migration on Urban Infrastructure Resilience." American Geophysical Union Fall Meeting. Online due to COVID-19. *(Oral)*
- [49] *Mulrow, J. and E. Grubert. December 2020. "Environmental Implications of the EV Cyber-Physical System." American Geophysical Union Fall Meeting. Online due to COVID-19. (*Poster*)
- [48] Grubert, E. December 2020. "Beyond Carbon in Socioenvironmental Assessment for Zero Carbon Systems." American Geophysical Union Fall Meeting. Online due to COVID-19. (*Poster*)
- [47] Grubert, E. August 2020. "Conventional Hydroelectricity and the Grid." American Water Resources Association Spring Conference. Austin, TX. (Virtual due to COVID-19)
- [46] Grubert, E. July 2020. "Life Cycle Cost and Environmental Assessment:
 Distributed Stormwater Control Measures." Integrated Decision Support Tool

- Beta Testing for Stormwater Practitioners Workshop. International Low Impact Development Conference. Web. (Virtual due to COVID-19)
- [45] Grubert, E. July 2020. "Socioenvironmental priorities in resource-producing communities: Case studies from US and Australian communities hosting fossil fuel and solar production." International Symposium on Society and Resource Management. Cairns, Queensland, Australia. (Virtual due to COVID-19)
- [44] [®]Maxim, A. and E. Grubert. June 2020. "How could open data standards affect energy and water sustainability in agriculture?" International Symposium for Sustainable Systems and Technology. Pittsburgh, PA. (Virtual due to COVID-19)
- [43] [®]Ha, S. and E. Grubert. May 2020. "Understanding the Public Attitudes towards the Clean Power Plan Using Natural Language Processing and Deep Learning." Duke University Energy Data Analytics Symposium. Durham, NC. (Postponed due to COVID-19)
- [42] Kirkman, R. and E. Grubert. February 2020. "Rethinking Relational Values for Environmental Assessment." 2020 Annual International Conference of the Association for Practical and Professional Ethics. Atlanta, GA. (Oral)
- [41] Kirkman, R. and E. Grubert. January 2020. "Rethinking Relational Values for Environmental Assessment." Workshops on Original Policy Research (WOPR). Georgia Institute of Technology. Atlanta, Georgia.
- [40] Grubert, E. December 2019. "Phasing Out Fossil Fuels: Socioenvironmental Priorities and Just Transitions for Extraction Communities." American Geophysical Union Fall Meeting. San Francisco, CA. (Oral)
- [39] Meng, M., K. Sanders, and E. Grubert. December 2019. "Resolving the life cycle water consequences of U.S. coal-fired electricity: A challenge of data availability, spatial attribution, and consumer accountability." American Geophysical Union Fall Meeting. San Francisco, CA. (Oral)
- [38] Gallo, E., C. Bell, A. Beziou, K. Spahr, E. Grubert, and T. Hogue. December 2019. "Development of a new integrated decision support tool (i-DST) for optimizing the benefits and tradeoffs of greener to greyer stormwater infrastructure." American Geophysical Union Fall Meeting. San Francisco, CA. (Poster)
- [37] Ravikumar, A., E. Grubert, and D. Sanchez. December 2019. "An Introduction to the Green New Deal and its Implications for Climate Policy." American Geophysical Union Fall Meeting. San Francisco, CA. (Oral—Session Chair, The Green New Deal: From Resolution to Reality)
- [36] Grubert, E. September 2019. "Conventional Hydroelectricity and the Future of the Grid." Energy Policy Research Conference. Boise, ID. (Oral)
- [35] Grubert, E. August 2019. "Modeling Regionalized Life Cycle Cost Ranges for Stormwater Infrastructure." Operation & Maintenance of Stormwater Control Measures. Minneapolis, MN. (Oral)
- [34] Grubert, E. June 2019. "What can public comments on the Clean Power Plan tell us about public attitudes toward climate-oriented regulation of the electricity system? A computational analysis." International Symposium on Society and Resource Management. Oshkosh, WI. (Oral)

- [33] Peer, R., E. Grubert, and K. Sanders. May 2019. "A High-resolution Geospatial Assessment of Water for the US Energy System." World Environmental and Water Resources Congress. Pittsburgh, PA. (Oral)
- [32] Grubert, E. May 2019. "A Life Cycle Cost Model of United States Green Stormwater Infrastructure Including Monetized Environmental Costs." World Environmental and Water Resources Congress. Pittsburgh, PA. (Oral)
- [31] Grubert, E. April 2019. "Energy in Atlanta: Regional Priorities and Governance." Atlanta Studies Symposium. Atlanta, Georgia. (Oral)
- [30] Sanders, K. and E. Grubert. December 2018. "Estimating the water usage of the US energy system within the context of change." American Geophysical Union Fall Meeting. Washington, D.C. (Oral)
- [29] Stokes-Draut, J., and E. Grubert. December 2018. "Unraveling the Water-Energy-Carbon Nexus for California's Urban Water Future." American Geophysical Union Fall Meeting. Washington, D.C. (Oral)
- [28] Hogue, T., C. Bell, E. Gallo, K. Spahr, E. Grubert, J. Stokes-Draut, and J. McCray. December 2018. "Advancing tools for holistic management of water resources: Development of an integrated decision support tool (i-DST) for grey and green infrastructure implementation." American Geophysical Union Fall Meeting. Washington, D.C. (Oral)
- [27] Peer, R., E. Grubert, and K. Sanders. December 2018. "A Geospatial Assessment of the Water Consumed and Withdrawn for US Fossil Fuel Production." American Geophysical Union Fall Meeting. Washington, D.C. (Poster)
- [26] Gallo, E., T. Hogue, C. Bell, K. Spahr, E. Grubert, and J. Stokes-Draut.
 December 2018. "Application of a new integrated decision support tool (i-DST) for urban water infrastructure: Analyzing water quality compliance pathways in Ballona Creek Watershed in Los Angeles, California." American Geophysical Union Fall Meeting. Washington, D.C. (Poster)
- [25] Grubert, E. June 2018. "Socioenvironmental priorities and experiences in the Eagle Ford and Bakken Shale regions of the United States: A comparative case study." International Symposium on Society and Resource Management. Salt Lake City, Utah. (Oral)
- *Groenke, A., E. Grubert, J. Stokes-Draut, and A. Horvath. May 2018. "Analysis of California water conservation programs for low-income communities: Decision support systems for utility planning." Re-Inventing the Nation's Urban Water Infrastructure (ReNUWIt) Spring Meeting. Stanford, California. (Poster)
- [23] Grubert, E. May 2018. "Developing Social Elements of Life Cycle Assessment." World Environmental and Water Resources Congress. Minneapolis, Minnesota. (Oral)
- [22] Webber, M. and E. Grubert. December 2017. "Thirst for Power: Energy, Water, and Human Survival." American Geophysical Union Fall Meeting. New Orleans, Louisiana. (Oral)
- [21] Grubert, E. December 2017. "Water Use for Unconventional Energy Development: How Much, What Kind, and to What Reaction?" American Geophysical Union Fall Meeting. New Orleans, Louisiana. (Poster, Invited)

- [20] Traer, M., R. Haupt, and E. Grubert. December 2017. "Stop saving the planet! Carbon accounting of superheroes and their impacts on climate change." American Geophysical Union Fall Meeting. New Orleans, Louisiana. (Poster)
- [19] Wang, J. and E. Grubert. November 2017. "Perceived variability in attribute outcomes, moral attributes, and compromise." Society for Judgment and Decision Making Annual Meeting. Vancouver, British Columbia. (Poster)
- [18] Grubert, E. November 2017. "Integrating Water Quantity to Life Cycle Assessment: A US-based Energy Water Nexus Case Study." American Water Resources Association Annual Conference. Portland, Oregon. (Oral)
- [17] *Suganuma, J. and E. Grubert. July 2017. "Community Response to Unconventional Oil and Gas Development in North America." Energy Impacts Symposium 2017. Columbus, Ohio. *(Oral)*
- [16] Grubert, E. and K. Sanders. June 2017. "A National Assessment of the Water Withdrawn and Consumed for the US Energy Economy." 2017 Joint Conference of the International Society for Industrial Ecology and International Symposium on Sustainable Systems and Technology. Chicago, Illinois. (Oral)
- [15] Grubert, E. and M. Cook. May 2017. "Communicating Controversial Scientific Issues: Water Use for Oil and Natural Gas." World Environmental and Water Resources Congress. Sacramento, California. (*Poster*)
- [14] Grubert, E. and K. Sanders. December 2016. "Water for Energy: Quantifying Water Use in the United States Energy Economy as of 2014." American Geophysical Union Fall Meeting. San Francisco, California. (Oral)
- [13] Jagdeo, J., A. Ravikumar, E. Grubert, and A. Brandt. December 2016. "A Holistic Assessment of Energy Production: Environmental, Economic, and Social Impacts of Hydraulic Fracturing in Williams County, North Dakota." American Geophysical Union Fall Meeting. San Francisco, California. (*Poster*)
- [12] *Melby, G., E. Grubert, and A. Brandt. December 2016. "Perceptions of Shale Gas Development: Differences in Urban and Rural Communities." American Geophysical Union Fall Meeting. San Francisco, California. (Poster)
- [11] *Drummond, V., E. Grubert, and A. Brandt. December 2016. "Fault Lines: Seismicity and the Fracturing of Energy Narratives in Oklahoma." American Geophysical Union Fall Meeting. San Francisco, California. (*Poster*)
- [10] Grubert, E. May 2016. "The Dynamic Water Intensity of Hydroelectricity." World Environmental and Water Resources Congress. West Palm Beach, Florida. (Oral)
- [9] Cook, M. and E. Grubert. May 2016. "Water Use in the Oil and Gas Industries: Communicating with Scientists, Policymakers, and the Public." World Environmental and Water Resources Congress. West Palm Beach, Florida. (Poster)
- [8] Grubert, E. April 2016. "The Water Intensity of Coal Mining in the United States: A Basin Level Evaluation." American Water Resources Association Spring Specialty Conference. Anchorage, Alaska. (Oral)
- [7] Grubert, E. December 2015. "Social Priorities as Data." American Geophysical Union Fall Meeting. San Francisco, California. (*Poster*)

- [6] Grubert, E. December 2015. "Empowering Graduate Students to Lead on Interdisciplinary Societal Issues." American Geophysical Union Fall Meeting. San Francisco, California. (Oral)
- [5] Grubert, E. and A. Brandt. October 2015. "Methane Leakage in LCA: Quantifying the Effect of Fugitive Methane Emissions on Greenhouse Gas Inventories."

 American Center for Life Cycle Assessment LCA XV. Vancouver, Canada. (Oral)
- [4] Grubert, E. February 2015. "Hearing the Unspoken: Using Text Mining to Investigate Social and Environmental Priorities." American Association for the Advancement of Science Annual Meeting. San Jose, California. (Poster)
- [3] Grubert, E. March 2015. "Evaluating Produced Water as a New Source in the United States." American Water Resources Association Spring Specialty Conference. Los Angeles, California. (*Oral*)
- [2] Grubert, E. August 2011. "Modeling Water Supply and Demand on Maui: Forests as a Land Use Category." Hawaii Conservation Conference. Honolulu, Hawaii. (Oral)
- [1] Grubert, E. October 2010. "Air Impacting Water: How Carbon Emissions Standards Could Impact West Virginia Water." West Virginia Water Conference: West Virginia's Water Resources: Threats and Opportunities. Morgantown, West Virginia. (Oral)

D4. Invited Seminar Presentations

- [21] University of California, Los Angeles. Joint Seminar: UCLA Institute of the Environment & Sustainability and UCLA Department of Civil and Environmental Engineering. May 2021. "Fossil electricity retirement deadlines for a just transition." Los Angeles, CA. (Individual; remote)
- [20] Stanford Unversity. Energy Resources Engineering Spring Seminar. March 2021. "Fossil electricity retirement deadlines for a just transition." Stanford, CA. (Individual; remote)
- [19] Lawrence Berkeley National Lab. Electricity Markets & Policy Department Seminar. March 2021. "Fossil electricity retirement deadlines for a just transition." Berkeley, CA. (Individual; remote)
- [18] MSE Village Conversations. March 2021. "Fossil electricity retirement deadlines for a just transition." Atlanta, GA. (*Individual; remote*)
- [17] Lawrence Berkeley National Lab. Energy Analysis & Environmental Impacts (EAEI) Happy Hour Seminar. February 2021. "Fossil electricity retirement deadlines for a just transition." Berkeley, CA. (Individual; remote)
- [16] Human-Water Systems Monthly. January 2021. "Conventional Hydroelectricity and the Energy Transition." Online seminar series (session hosted by Virginia Tech). (Individual; remote)
- [15] Georgia Institute of Technology. GeoSeminar. October 2020. "Decarbonization and a Just Transition in the United States Energy Sector." Atlanta, GA. (Individual: remote)
- [14] University of California, Santa Barbara. October 2020. "Energy, Water, and Facilitating Infrastructure Decisions Under Climate Change." Santa Barbara, CA. (Individual; remote)

- [13] Stanford University. September 2020. "Macro-Energy Systems: Toward a New Discipline." Stanford, CA. (*Panel; remote*)
- [12] Stanford University. May 2020. "Renewable natural gas and climate: The influence of feedstock and methane leakage." Stanford, CA. (Individual; remote)
- [11] University of Southern California. February 2020. "Conventional Hydroelectricity and the Energy Transition." Los Angeles, CA. (*Individual*)
- [10] University of Illinois Urbana-Champaign. February 2020. "Conventional Hydroelectricity and the Energy Transition." Urbana, IL. (Individual)
- [9] North Carolina State University. November 2019. "Conventional Hydroelectricity and the Grid." Raleigh, NC. (*Individual*)
- [8] North Carolina State University. November 2019. "Power Shift: The Future of Energy and the Women Shaping It." Raleigh, NC. (Panel)
- [7] Carnegie Institution for Science Department of Global Ecology. October 2019. "The Energy System is Changing: Industrialization, Deindustrialization, and Adapting What We Have." Stanford, CA. (Individual)
- [6] NextProf Nexus. October 2019. "Preparing for the Interview." Atlanta, Georgia. (Panel)
- [5] Georgia Institute of Technology. Environmental Engineering Seminar. October 2019. "The Energy System is Changing: Industrialization, Deindustrialization, and Adapting What We Have." Atlanta, Georgia. (Individual)
- [4] American Center for Life Cycle Assessment and the International Society for Industrial Ecology. February 2018. "The Need for a Preference-Based Multicriteria Prioritization Framework in Life Cycle Sustainability Assessment." LCSA Webinar Series. (Individual)
- [3] Energy Impacts Research Coordination Network. February 2017. "New Voices in Energy Impacts Research: Graduate Research Highlights." Webinar. (Panel)
- [2] Yale Climate and Energy Institute, Yale University. February 2013. "Fuel Switching Can Save Water: Freshwater Use for Coal Versus Natural Gas Extraction and Power Generation in Texas." New Haven, Connecticut. (Individual)
- [1] Rocky Mountain Institute. January 2011. "The Role of Coal in the United States: Reserves and Externalities." Boulder, Colorado. (*Individual*)

D5. Other Presentations

- [31] Grubert, E. March 2022. "Fossil electricity retirement deadlines for a just transition." Climate Adaptation Policy. University of Delaware. Newark, Delaware. (Remote)
- [30] Grubert, E. June 2021. "Pitfalls of Assuming Low-Use, Low-Cost Natural Gas Electricity in Decarbonized Grid Planning." RMI Electricity Office Hours. (Remote)
- [29] Grubert, E. April 2021. "What Went Wrong in Texas? The February 2021 Texas Freeze." IEEE Kansas City Section Chapter. (Remote)
- [28] Chen, Y., E. Grubert, and G. Lan. April 2021. "Machine Learning-assisted Design of Sustainable Nanofiltration Membranes for Wastewater Resource Recovery."

- School of Civil and Environmental Engineering, Executive Advisory Board Meeting. Atlanta, Georgia. (*Presenter; Remote*)
- [27] Grubert, E. April 2021. "ITE & WTS 2021 Faculty Chat." School of Civil and Environmental Engineering. (Panel; Remote)
- [26] Grubert, E. March 2021. "Resilient Energy Infrastructure." Georgia Institute of Technology #SMARTer Together Webinar Series. (*Panel; Remote*)
- [25] Grubert, E. March 2021. "Out with the Old, in with the New: How to Build a Net-Zero America While Ensuring a Just Transition." Columbia Center on Global Energy Policy. Online seminar. (Panel; Remote)
- [24] Grubert, E. March 2021. "Renewable Natural Gas Regulatory Considerations." Building Decarbonization Regulatory Working Group. Online seminar. (Remote)
- [23] Grubert, E. February 2021, March 2021. "Just Transition for Power Plant Retirements." NYSERDA Just Transition Working Group. (Remote)
- [22] Grubert, E. January 2021. "Fossil electricity retirements for a just transition." CHEM 3700. Georgia Institute of Technology. Atlanta, Georgia. (Remote)
- [21] Grubert, E. December 2020. "Working with Industry." Strategic Energy Institute. Georgia Institute of Technology. Atlanta, Georgia. (Remote; panel)
- [20] Grubert, E. November 2020. "Transforming Industry in America's Zero-Carbon Action Plan." Online Zero Carbon Action Plan seminar. (*Panel*)
- [19] Grubert, E. October 2020. "Exploring Civil and Environmental Engineering." School of Civil and Environmental Engineering, Executive Advisory Board Meeting. Atlanta, Georgia. (Remote)
- [18] Grubert, E. September 2020. "Life Cycle Assessment." ENVE 555. San Diego State University. San Diego, California. (*Remote*)
- [17] Grubert, E. June 2020. "Beyond CO₂: Water and Methane as Relevant Indicators in a Decarbonizing World." ZERO Lab. Princeton University. Princeton, New Jersey. (*Remote*)
- [16] Grubert, E. May 2020. "Life Cycle Assessment: Sustainability Assessment for Decision Making." Envres 240. Stanford University. Stanford, California. (Remote)
- [15] Grubert, E. May 2020. "The Powder River Basin Story." Ad hoc online seminar. Web.
- [14] Grubert, E. May 2020. "Conventional Hydroelectricity and the Energy Transition." Emmett Interdisciplinary Program in Environment and Resources Alumni Seminar. Web.
- [13] Grubert, E. April 2020, July 2020, September 2020. "Coal." CEE 107A/207A/Earthsys 103. Stanford University. Stanford, California. (Remote, 3x)
- [12] Grubert, E. April 2020. "How Environmental Policy Opened a Coal District." EH 590R. Emory University. Atlanta, Georgia. (*Remote*)
- [11] Grubert, E. March 2020. "Exploring Civil and Environmental Engineering: Engaging Freshmen Early" (*Poster*). Celebrating Teaching Day. Georgia Institute of Technology. Atlanta, Georgia.

- [10] Grubert, E. January 2020. "Life Cycle Assessment: Sustainability Assessment for Decision Making." ME 4801. Georgia Institute of Technology. Atlanta, Georgia.
- [9] Grubert, E. October 2019. "Studying Energy Transitions with Geographic Information Systems." CP 6541. Georgia Institute of Technology. Atlanta, Georgia.
- [8] Grubert, E. March 2019. "Social Life Cycle Assessment." ISyE 8803-THO. Georgia Institute of Technology. Atlanta, Georgia.
- [7] Grubert, E. March 2016. "Water Intensity of Energy Systems: A Major Emerging Policy Issue." MAP. Palo Alto, California.
- [6] Grubert, E. February 2016. "Triple Bottom Line Policy Making: How Do We Balance Priorities?" United World College USA. Montezuma, New Mexico.
- [5] Grubert, E. February 2016. "Implementation and Activism: Being Effective While Advocating." United World College USA. Montezuma, New Mexico.
- [4] Grubert, E. March 2015. "The Future of the Energy Industry." MAP. Palo Alto, California. (*Panel*)
- [3] Grubert, E. June 2013. "Natural gas, coal, and water in Texas." Texas Natural Gas Regulatory Modernization Initiative. Austin, Texas.
- [2] Grubert, E., A. Fraser, and E. Holland. September 2012. "Thermal Coal Vision 2030: United States Coal." McKinsey Basic Materials Knowledge Day. Las Vegas, Nevada.
- [1] Grubert, E. April 2010. "Energy and Water." Amarillo Area Foundation and Texas Energy Forum. Amarillo, Texas.

E. GRANTS AND CONTRACTS

E1. As Principal Investigator

[6] Title of Project: IPA Assignment with the Department of Energy

Sponsor: US Department of Energy Total Dollar Amount: \$187,860

Role: IPA; Specialized Service Agreement

Collaborators: n/a

Period of Contract: 7/19/2021 – 7/18/2022 Candidate's Share: \$187,860 (100%)

[5] Title of Project: Integrating End Use and Supply Side Decarbonization Strategies

in the Southeast

Sponsor: Georgia Institute of Technology

Total Dollar Amount: \$6,489

Role: PI

Collaborators: n/a

Period of Contract: 5/15/2021 - 6/30/2021

Candidate's Share: \$6,489 (100%)

[4] Title of Project: Review of Multicriteria Environmental Impacts of Zero and Low

Greenhouse Gas Energy Resources and Carriers

Sponsor: Clean Air Task Force Total Dollar Amount: \$8,010

Role: PI

Collaborators: n/a

Period of Contract: 4/1/2021 - 12/31/2021

Candidate's Share: \$8,010 (100%)

[3] Title of Project: What Can Grids Expect from Conventional Hydroelectricity?

Sponsor: Carnegie Institution of Washington

Total Dollar Amount: \$200,301

Role: PI

Collaborators: n/a

Period of Contract: 1/1/2020 – 12/31/2022 Candidate's Share: \$200,301 (100%)

[2] Title of Project: CPS: Medium: Dynamic Pricing for Optimal Design of

Sustainable Transportation Systems

Agency/Company: National Science Foundation

Total Dollar Amount: \$1,018,602

Role: PI

Collaborators: Samuel Coogan (Co-PI), Omar Asensio (Co-PI)

Period of Contract: 10/1/2019 – 9/30/2022 Candidate's Share: \$335,449 (~33%)

[1] Title of Project: What do public comments on environmental regulations reveal

about social inequality? A computational analysis Agency/Company: Russell Sage Foundation

Total Dollar Amount: \$7,668

Role: PI

Collaborators: none

Period of Contract: 8/1/2019 – 7/31/2020 Candidate's Share: \$7,668 (100%)

E2. As Co-Principal Investigator

[7] Title of Project: Planning Grant: Engineering Research Center for Green and

Climate-Resilient Built Environments (Green CRiBs) Agency/Company: National Science Foundation

Total Dollar Amount: \$150,000

Role: Co-PI

Collaborators: Aram Amassian (PI), Natalie Stingelin (Co-PI), Terri Long (Co-PI),

Michael McGehee (Co-PI)

Period of Contract: 9/01/2021-4/30/2022

Candidate's Share: not available

[6] Title of Project: CEE Cross-Cutting Research: Machine learning-assisted design

of sustainable nanofiltration membranes for wastewater resource recovery

Agency/Company: Georgia Institute of Technology

Total Dollar Amount: \$15,000

Role: Co-PI

Collaborators: Yongsheng Chen (PI), Guanghui Lan (Co-PI)

Period of Contract: 05/01/2021-12/31/2021

Candidate's Share: not available

[5] Title of Project: Estimating the costs of the coal-targeted retirement deadline

policies to local communities in the West

Agency/Company: Western Resource Advocates

Total Dollar Amount: \$25,000

Role: Co-PI

Collaborators: Robert Godby (PI), Roger Coupal (Co-PI)

Period of Contract: 01/01/2021-12/31/2021

Candidate's Share: \$7,000 (~28%)

[4] Title of Project: Life Cycle Comparative Study of Pavements from Modified Sulfur

Binder

Agency/Company: Uberbinder Total Dollar Amount: \$114,259

Role: Co-PI

Collaborators: Kimberly Kurtis (PI), Francesca Lolli (Co-PI)

Period of Contract: 6/15/2020 - 12/15/2021

Candidate's Share: \$12,062 (~10%)

[3] Title of Project: Recommendations for Future Specifications to Ensure Durable

Next Generation Concrete

Agency/Company: Georgia Department of Transportation

Total Dollar Amount: \$325,000

Role: Co-PI

Collaborators: Kimberly Kurtis (PI)

Period of Contract: 8/15/2020 - 8/14/2023

Candidate's Share: \$196,500 (60%)

[2] Title of Project: FW-HTF-RL: Cultivating Capacities for Responsible Hacking,

Creating, and Making the Future of Work in Agriculture

Agency/Company: National Science Foundation

Total Dollar Amount: \$1,996,465

Role: Co-PI

Collaborators: Jacqueline Tidwell (PI), Don Edgar (Co-PI)

Period of Contract: 10/1/2019 – 9/30/2023 Candidate's Share: \$426,144 (~20%)

[1] Title of Project: Designing "Introduction to Civil and Environmental Engineering"

Agency/Company: Georgia Institute of Technology (Serve-Learn-Sustain Course

Development Funds)

Total Dollar Amount: \$4,000

Role: Co-PI

Collaborators: Kevin Haas (Co-PI) Period of Contract: 4/1/2019 – 6/30/2019

Candidate's Share: 100% (\$4,000)

E3. As Senior Personnel or Contributor

[3] Title of Project: NAWI Task 3.09: Assessing the Impact of APRIME on Industrial

Sector Supply Portfolios: Chemical Industry Case Studies Agency/Company: National Alliance for Water Innovation

Total Dollar Amount: \$663,810

Role: Investigator

Collaborators: Lynn Katz (PI), Kasey Faust Period of Contract: 7/19/2022 – 6/30/2024

Candidate's Share: \$56,097 (8%)

[2] Title of Project: IUSE/PFE: RED A&I: Adapting and Implementing Interactive Problem-Driven Learning, Professional and Computational Skills Development for Early and Vertically-Integrated Engagement

Agency/Company: National Science Foundation

Total Dollar Amount: \$1,000,000

Role: Investigator

Collaborators: Don Webster (PI), et al. Period of Contract: 9/1/2021 – 8/31/2036

Candidate's Share: n/a

[1] Title of Project: An Integrated Decision Support Tool (i-DST) for Life-Cycle Cost Assessment and Optimization of Green, Grey, and Hybrid Stormwater Infrastructure

Agency/Company: Environmental Protection Agency

Total Dollar Amount: \$1,949,462

Role: subawardee

Collaborators: Terri Hogue (PI), Mengistu Geza (co-PI), Christopher Higgins (co-PI), Arpad Horvath (co-PI), John McCray (co-PI), Rob McDonald (co-PI), Jennifer

Stokes-Draut (co-PI)

Period of Contract: 1/1/2019 – 3/31/2020 Candidate's Share: \$110,000 (~6%)

F. OTHER SCHOLARLY AND CREATIVE ACCOMPLISHMENTS

- [5] The Big Switch, Season 1, Episode 1: The Zero-Carbon Backbone. (Podcast guest)
- [4] The Energy Transition Show, Episode 145: A Slow Take on the Texas Blackout. (Podcast guest)
- [3] The Energy Transition Show, Episode 140: Methane Leakage. (Podcast quest)
- [2] ASCE *Plot Points*, Season 4, Episode 8: Are Civil Engineers Doing Enough to Combat Climate Change? (*Podcast guest*)
- [1] Hames, Mat (Director). 2018. Thirst for Power. Documentary. http://www.imdb.com/title/tt9032352/. (Featured interviewee)

G. SOCIETAL AND POLICY IMPACTS

G1. Selected Public Comments and Testimony

- [3] Grubert, E. November 2020. Direct Testimony of Emily Grubert on Behalf of PACE Energy and Climate Center and Alliance for a Green Economy. (Written)
- [2] Cullenward, D., M. Mastrandrea, E. Grubert, and A. Strong. March 2016. Use of 20-year GWPs in the Draft Aliso Canyon Methane Leak Climate Impacts Mitigation Program. Comment to the California Air Resources Board. (Written)
- [1] Grubert, E. April 2014. Testimony Regarding the Mine Methane Capture Carbon Offset Protocol. Meeting of the State of California Air Resources Board. (Oral)

G2. Selected Press Coverage

The New Yorker, Los Angeles Times ("Boiling Point"), Chicago Tribune, Forbes, Grist, Quartz, Gizmodo, Mother Jones, Columbus Dispatch, CleanTechnica, Inside Climate News, Texas Climate News, ClimateNexus, The Climate Pod, Huffington

Post, Resources Radio (Resources for the Future), KQED, MIT Technology Review, New Project Media, Platts, Natural Gas Intel, Houston Chronicle, Scientific American, Environmental Research Web, Eos, Montgomery Herald, Mountain West News Bureau, Tonopah Times-Bonanza, We Are Engineers, The Alcalde, Texas Clean Energy Coalition, Washington Post

G3. Selected Press Quotes

Los Angeles Times, New York Times, NPR, AP, Wall Street Journal, National Geographic, E&E News, The New Republic, S&P Global, TechCrunch, The Atlantic ("The Weekly Planet"), Business Insider, Bloomberg, Univision, DeSmog Blog, Gizmodo, Salon, WSBTV (Channel 2), Mashable, Casper Star-Tribune

G4. Selected Use of Research in Policy

Comment Re: Formal Case No. 1142 by the Apartment and Office Building Association of Metropolitan Washington; Grubert 2020 entered into California Energy Commission Public Docket, 20-IEPR-02-Transportation

H. OTHER PROFESSIONAL ACTIVITIES

2022-pres	Professional Engineer (Georgia, PE049118)
2021	Expert, Sierra Club
2021	Project Consultant, Clark Fork Coalition
2020-pres	Envision Sustainability Professional (ENV SP) (#35373)
2020-2021	Expert, EarthJustice
2020-2021	Project Advisor , The Gas Index (Global Energy Monitor), San Francisco, California
2020	Project Consultant, CarbonPlan, San Francisco, California
2016, 18	Project Consultant, Lineage Logistics, Irvine, California
2014-15	Project Consultant, SandRidge Energy, Oklahoma City, Oklahoma
2013-14	Project Consultant, Energy Innovation, San Francisco, California
2013	Project Analyst, Pacific Gas and Electric
2011-2022	Engineer-in-Training, Environmental Engineering (#45743)
2009-pres	Leadership in Energy and Environmental Design (LEED) Accredited Professional, Building Design and Construction

V. EDUCATION

A. Courses Taught

A1. Georgia Tech

Spring, 2021	CEE 8813	Sustainable Buildings	18
Fall, 2020	CEE 2803	Exploring CEE	48
Spring, 2020	CEE 8813	Sustainable Buildings	14
Fall, 2019	CEE 2803	Exploring CEE	24

A2. Berkeley

Spring, 2018 CE 268s Buildings and Sustainability 25

A3. Stanford

Fall, Spring, 2015-18 CEE 107a/207a Understanding Energy 30-150 Summer, 2014-17 CEE 107s Energy Resources: Fuels and Tools 20-40 Winter, 2017 Envres 340 E-IPER PhD Writing Seminar 8 Fall, 2016 Envres 276 Water Resources: 6 Culture and Context The Practice of Mining and its Winter, 2015 Envres 275 10 Social and Environmental Context

B. INDIVIDUAL STUDENT GUIDANCE

B1. Ph.D. Students

- [3] Cohen, Abigail. Spring 2020-present. Graduation date: Spring 2023 (expected). Project: The New Greenbelt: Seeding Regional Self-Sufficiency Through the Circular Bioeconomy. Co-advisor: Yongsheng Chen.
- [2] Maxim, Alexandra. Fall 2019-present. Graduation date: Spring 2024 (expected). Project: Proactive Planning for Resilient and Sustainable Infrastructure. Recipient: Robert Wood Johnson Foundation Health Policy Research Scholar Fellowship, Sloan Foundation Fellowship.
- [1] Ha, Sooji. Spring 2019-Summer 2021. Graduation date: Summer 2021. Project: Natural Language Processing and Deep Learning Approaches for Sustainability and Infrastructure Policy Analyses. Co-advisor: Omar Asensio. (placement: Wells Fargo)

B2. M.S. Students

- [7] Zacarias, Mathias. Fall 2021-present. Project: Environmental Implications of Lowand Zero Carbon Energy Resources and Carriers. Thesis: yes.
- [6] Drouhard, Bernadette. Summer 2021-present. Project: Methane Availability from Wastewater Reclamation Facilities as Fuel for Low Capacity Factor Gas Plants Under Deep Decarbonization. Thesis: yes.
- [5] Burns, Diana. Fall 2019-Spring 2021. Project: How Different are US Natural Gas Basins? Spatially Resolved Life Cycle Greenhouse Gas Emissions from Natural Gas. Thesis: yes. Recipient: Georgia Power Fellowship.
- [4] Lyford, Kelsey. Fall 2019-Spring 2021. Thesis: no.
- [3] Descartes, Jamen. Fall 2019-Spring 2021. Thesis: no.
- [2] Dean, Victoria. Summer 2019-Spring 2021. Thesis: no. Recipient: Robert Wood Johnson Foundation Health Policy Research Scholar Fellowship.
- [1] Krieger, Jennifer. Spring 2019-Fall 2019. Project: Life Cycle Costing for Green Stormwater Infrastructure for the integrated Decision Support Tool (iDST). Thesis: yes.

B3. Undergraduate Students

- [17] Hill, Clarice. Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [16] Chen, Jeremy. Spring 2021-Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [15] Herrera, Talia. Spring 2021-Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [14] Molnar, Clara. Spring 2021-Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [13] Shreve, Christa. Spring 2021-Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [12] Reinhart, Trina. Spring 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [11] Schmidt, Isaac. Spring 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [10] Zacarias, Mathias. Summer 2020-Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [9] Gali, Manasi. Spring 2020; Fall 2020-Summer 2021. Undergraduate Research Assistant, Georgia Institute of Technology.
- [8] Gardner, Anna. Fall 2019. Undergraduate Research Assistant, Georgia Institute of Technology.
- [7] Brown, Robert. Spring/Summer 2019. Undergraduate Research Assistant, Georgia Institute of Technology.
- [6] Groenke, Alexa. Spring 2018. Undergraduate Research Assistant, University of California, Berkeley.
- [5] Drummond, Virginia. Summer 2016. Undergraduate Research Assistant, Stanford University.
- [4] Melby, Grayson. Summer 2016. Undergraduate Research Assistant, Stanford University.
- [3] Suganuma, Jade. Summer 2016. Undergraduate Research Assistant, Drake University.
- [2] Herring, Noelle. 2015-2016. Undergraduate Research Assistant, Stanford University.
- [1] Rey, Lindsey. 2010-2011. Undergraduate Research Assistant, The University of Texas at Austin.

B4. Service on thesis or dissertation committees

- [10] Henao-Barragan, Yulizza. Degree: Ph.D. Graduation date: Spring 2024 (expected). Project: Upgrading Construction Demolition Waste: Wind Turbine Blades End-of-Life Application. Advisors: John Taylor, Russell Gentry.
- [11] Caceres Gonzalez, Rodrigo. Degree: Ph.D. Graduation date: Spring 2023 (expected). Project: TBD. Advisor: Marta Hatzell.

- [7] Broesicke, Osvaldo. Degree: Ph.D. Graduation date: Summer 2022 (expected). Project: Multidisciplinary design optimization for energy systems design: Evaluating the trade-offs between a centralized and distributed energy infrastructure for cities in the United States. Advisor: John Crittenden.
- [6] Rios, Renee. Degree: Ph.D. Graduation date: Spring 2022. Project: Screening reactivity and predicting performance of supplementary cementitious materials using statistical analysis and machine learning. Advisor: Kim Kurtis.
- [5] Santoyo, Cesar. Degree: Ph.D. Graduation date: Spring 2022. Project: Probabilistic analysis and control methods for electric vehicle charging. Advisor: Sam Coogan.
- [4] Kasturi, Abishek. Degree: M.S. Graduation date: Fall 2020. Project: Near-term and long-term CO₂ sequestration potential in the United States using Bio-Energy with Carbon Capture and Storage. Advisor: Sotira Yiacoumi.
- [3] Francisco, Abigail. Degree: Ph.D. Graduation date: Summer 2020. Project: Urban Energy Informatics: Improving the Usability of Building Energy Data for Community Energy Efficiency. Advisor: John Taylor.
- [2] Samuels, Rachel. Degree: Ph.D. Graduation date: Summer 2020. Project: Identifying, Defining, and Utilizing Sociospatial Variances in Social Media Usage to Improve Crisis Response and Urban Resilience. Advisor: John Taylor.
- [1] Jin, Qingxu. Degree: Ph.D. Graduation date: Fall 2019. Project: "Fundamental Understanding of NO_x Sequestration Capacity and Pathways in Nano-TiO₂ Engineered Cementitious Materials." Advisor: Kim Kurtis.

B5. Mentorship of postdoctoral fellows or visiting scholars

- [2] Marshall, Adrienne. January 2021-Summer 2021. (placement: Assistant Professor, Colorado School of Mines)
- [1] Mulrow, John. July 2020-Summer 2022. (placement: Visiting Assistant Professor, Purdue University)

C. EDUCATIONAL INNOVATIONS AND OTHER CONTRIBUTIONS

Workshop Co-Lead, "Peer review excellence: become an IOP trusted reviewer." Institute of Physics Publishing.

VI. SERVICE

A. PROFESSIONAL CONTRIBUTIONS

2022-pres. Associate Editor, The Electricity Journal

2022-pres. **Vice Chair**, Committee on Sustainable Energy, United Nations Economic Commission for Europe

2021-pres. Fifth National Climate Assessment (NCA5) Chapter Author, Mitigation

2021-pres. Advisory Committee Member, Environmental Research 2021, IOP Publishing, Virtual Conference

2021-pres. **Technical Co-Chair**, 2022 Environmental and Water Resources Institute (EWRI) Congress (ASCE), Atlanta, Georgia

2021 **External Reviewer**, University of Michigan Carbon Neutrality Acceleration Program 2020-pres. **Editorial Board Member**, Environmental Research: Infrastructure and Sustainability 2020-pres. Associate Editor, Journal of Environmental Studies and Sciences 2020 Steering Committee Member, Macro-Energy Systems Workshop 2020-2021 **Vice Chair**, Sustainability Committee, Interdisciplinary Council, Environmental and Water Resources Institute of the American Society of Civil Engineers 2020 Panel Reviewer, National Science Foundation, Directorate for Computer and Information Science and Engineering (CISE) 2019-pres. Editorial Board Member, IOP SciNotes (IOPSN) 2019-2020 **Secretary**, Sustainability Committee, Interdisciplinary Council, Environmental and Water Resources Institute of the American Society of Civil Engineers 2018-pres. Advisory Board Member, Environmental Research Letters 2018-2019 **Program Committee Member**, International Conference on Sustainable Infrastructure (ICSI) 2019: Sustainable Cities for an Uncertain World, American Society of Civil Engineers **Member**, Environmentally Responsible Energy Production (formerly 2016-pres. Hydraulic Fracturing) Technical Committee, Interdisciplinary Council, Environmental and Water Resources Institute of the American Society of Civil Engineers Journal Referee, Science, Proceedings of the National Academy of ongoing Sciences, Environmental Science & Technology, Environmental Research Letters, Water Resources Research, Journal of Industrial Ecology, Energy Research and Social Science, Society and Natural Resources, Journal of Water Resources Planning and Management, others

B. Public and Community Service

2021-pres. Capital Deployment for Community Needs Task Force Member, Maui ESG Project, Maui, Hawaii

C. UNIVERSITY SERVICE

C1. Georgia Tech

2021-pres. Strategic Energy Institute Faculty Advisory Council Member (Institute level) 2021 Civil and Environmental Engineering Strategic Planning Core Team Member (School level) 2021 Strategic Energy Institute Director Search Committee Member (Institute level) Civil and Environmental Engineering Committee on Diversity and 2020-pres. Inclusion Faculty Representative and Vice-Chair (School level)

2020	Environmental Engineering Faculty Search Sub-committee Member (School level)
2020	College of Engineering Dean Search Committee Member (College level)
2019-pres.	Construction and Infrastructure Systems Engineering Representative, Undergraduate Committee (School level)
2019	OceanVisions2019 Session Co-chair (School level)