

JOSHUA RADOFF

OVERVIEW

Sustainability and energy entrepreneur, industry leader, and educator with 20 years of experience in the field. Strong technical, writing, team leadership, and public speaking skills. Subject matter expertise in public and private sector decarbonization, energy efficiency, renewable energy, and public policy, including an emphasis on energy, GHG mitigation, equity, and resiliency. Experience with domestic and international projects and contexts, as well as government and utility programs and policies. Able to convey a sense of enthusiasm and possibility and then develop a path forward to realize sustainability outcomes.

EDUCATION

Colby College – Bachelor of Arts, Physics, Waterville, ME, 1995

Columbia University – Master of Science, Electrical Engineering, New York, NY, 1999; Fellowship for Teaching Assistance; The Jacob Millman Prize for Excellence in Teaching Assistance in Electrical Engineering (1997-1998)

Kungl Tekniska Hogskolan (Royal Institute of Technology) - Master of Science, Sustainable Energy Engineering, Stockholm, Sweden, 2000; Master's Thesis: "CO₂ Emission Baselines for the Caribbean Hotel Sector; Paving the Way for the Realization of Caribbean Clean Development Mechanism (CDM) Market Opportunities"

Solar Energy International - Two week workshop: Photovoltaic Design and Installation; Two week workshop: Wind System Design and Installation (Summer 1999, Carbondale, CO)

CAREER HIGHLIGHTS

University of Colorado Boulder, MENV 2021-present
RSE Spec Lead Boulder, CO

Josh is the Renewable and Sustainable Energy Specialization Lead within CU Boulder's Masters of the Environment program. In this capacity, Josh leads the development of the RSE curriculum, teaches a series of classes on energy technology, policy, and business, and advises the current cohort of RSE students.

University of Colorado Boulder, Campus Climate Action Plan (CAP) 2022-present
Steering Committee Member Boulder, CO

Supporting the update of the campus climate action plan including the first Scope 3 emissions inventory and the establishment of an updated reduction target.

ICLEI USA 2021-present
Zero Carbon Cities Advisor Denver, CO

Josh is supporting the development and rollout of the ICLEI's Race to Zero Campaign, an initiative designed to help cities and local government set science based targets (SBTs) and develop roadmaps to meet these ambitious goals through various policies and initiatives.

Arroyo Climate Advisers 2021-Present
Decarbonization Consulting Boulder, CO

Through Arroyo Climate Advisers, Josh works with private sector clients on a number of sustainability related challenges, both technical and strategic. These include company positioning for ESG investment, real estate master planning, developing solutions for clean energy infrastructure, and zero carbon buildings.

WSP USA
2017 to 2021 Boulder, CO
Senior Vice President, Built Ecology Team Lead

Josh led WSP's national built environment sustainability team, Built Ecology. His team of 25-30 staff provided strategic, technical, and implementation support to a wide variety of sustainability projects across the US and internationally, focusing on decarbonization, water management, human and environmental health, and resiliency. Josh lead and provides guidance to many of these projects, including a number of large district scale projects targeting decarbonization, with elements of building and vehicle electrification, efficiency and load management, renewable energy and battery storage integration, and water treatment and reuse, all of which is supported by conducting financial and utility rate analysis, guiding clients through

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technical issues, and engaging with the electric and water utilities and other stakeholders. Josh is also a regular presenter, including in-depth workshops, in issues and topics in the field.

YR&G

2006 to 2017

Co-Founder and Principal

Denver, CO

Prior to joining WSP, Josh co-founded and led the national consulting group, YR&G, with offices in New York City, Chicago, and Denver. Josh grew the company to 25 full time staff, providing leadership to the sustainability industry, and working on projects as diverse as Denver Housing Authority's Mariposa redevelopment, master plan developments in China and Dubai, and development and operational guidelines for New York schools and Battery Park City. Josh oversaw YR&G's acquisition by WSP in 2017 including the migration of all staff in each of YR&G's offices.

University of Colorado Denver (UCD)

2012 to 2015

Adjunct Professor

Denver, CO

Josh taught two full-semester, graduate level classes for UCD within the Civil Engineering department for Urban Planning and Engineering students. The first, Sustainable Infrastructure, covered the full range of topics for a sustainable built environment, including food, waste, water, energy, mobility, and carbon. The second, Sustainable Energy Systems, was a new class at UCD and represented a deeper dive into the technical, economic, and engineering elements of sustainable energy systems, including wind, solar, waste-to-energy, and biomass.

Urban Land Institute, Colorado Chapter (ULI)

2013 to 2015

Co-Chair, Building Healthy Places Committee

Denver, CO

Josh was the first co-chair for the new Building Healthy Places committee, one of the first such committees of its kind among ULI Chapters, and an important voice in the Colorado development and planning community. In this role, Josh managed the monthly meetings, including researching and inviting speakers. He also facilitated specific forums on the topic, and participated in various technical advisory panels for neighborhoods and cities around Colorado.

City of Boulder

2005 to 2006

Residential Energy and Climate Programs

Boulder, CO

When the City of Boulder adopted a greenhouse gas (GHG) reduction goal that mimics that of the Kyoto protocol, Josh supported the city's energy and GHG programs and policies that address or impact the residential sector. This included working with local homeowners, tenants, and landlords to increase awareness and motivate action towards green building, energy efficiency, renewable energy, and non-auto modes of transportation; coordinating trainings, workshops and educational campaigns; conducting GHG inventory management; and developing home energy and carbon calculation tools.

GreenHomeNYC

2002 to 2004

Co-Founder and Director

New York, NY

GreenHomeNYC is a local, volunteer-driven, nonprofit organization with the mission of facilitating the adoption of environmentally friendly building design, construction, deconstruction, and management practices among small residential and commercial buildings in New York City. As co-director, Josh oversaw the day to day operation of the organization, managed and coordinated volunteers, spoke at classes and community events, wrote articles for the New York press, acted as media spokesperson, and conducted project-specific research.

Energy and Climate Consulting

2000 to 2005

Josh worked for a few different firms and one NGO in the capacity of energy and climate consultant and analyst, including Summit Blue Consulting in Boulder, as well as SAIC, PA Consulting, and the Center For Clean Air Policy in Washington, D.C. The following are a few highlights from this period:

- Under a USAID contract, conducted research and analysis for renewable energy policy advancement in Central America; this included traveling to five countries and conducting interviews with government stakeholders to identify policy barriers and recommended strategies to remove those barriers.

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- Developed climate action plans for state governments, including policy analysis of the major state level opportunities such as appliance standards, renewable portfolio standards, residential and commercial efficiency, forestry activities, power sector fuel switching, clean vehicle incentives, etc.
- Conducted research and analysis on international climate change policy including GHG baseline research for various sectors, with a focus on opportunities for GHG reductions in the Caribbean tourism sector, and eventual participation in the Clean Development Mechanism (CDM) under the Kyoto Protocol
- Researched alternative fuel vehicles and their potential to reduce GHG emissions from the transportation sector
- Worked with power plants and utilities regarding a variety of carbon reduction measures (including sequestration) and evaluated utility efficiency programs effectiveness
- Worked with corporate entities to develop GHG inventories and baselines, and then meaningful emission reduction goals as part of EPA's Climate Leaders program
- Conducted residential demand response program analysis and recommendations for a rural electric cooperative in western Colorado

The Collegiate School

1997 to 1999

*High School Physics and Earth Science Teacher
Richmond, VA*

Josh was part of the Collegiate School science department, teaching three Physics (11th and 12th grade) classes and one Earth Science class per semester. He also helped coach the boys and girls soccer teams and led the school's first film club.

ACCREDITATIONS, AFFILIATIONS, AND INDUSTRY LEADERSHIP

- LEED Fellow, Awarded November 2018
- Adjunct Faculty, University of Colorado Denver, College of Engineering and Applied Science, 2013 to Present
- Founding Director, GreenHomeNYC, 2014 to 2016
- Board Member, DRCOG's Sustainable Communities Initiative Executive Committee, 2014 to 2015
- Co-Chair, ULI Colorado Building Healthy Places Committee, 2014 to 2015
- Member, USGBC's LEED Advisory Committee, 2013 to 2015
- Board Member, USGBC-CO Chapter, 2007 to 2009
- LEED AP, BD+C, 2005

SHORT LIST OF PUBLICATIONS AND PUBLIC SPEAKING

- Podcast: "ICLEI and the Race to Zero (Carbon)," City Climate Corner, January 19th, 2022
- Podcast: The Sustainable City: Zero-Carbon, From Buildings to Cities, May 7, 2022
- ICLEI Whitepaper: "Analysis of U.S. Local Government Science-Based Targets and Pathways to Achieve Them in the Race to Zero"; Joshua Radoff, Eli Yewdall, and Matthew Katz, 2021
- Keynote Speaker: "Decarbonization at Scale," 2021 ASHRAE Building Performance Analysis Conference, Denver, CO
- "Navigating the Zero Energy and Carbon Landscape," Greenbuild, November 2020
- "Your Hourly Emissions Forecast Dreams Come True," Greenbuild, November 2020
- "A Review of the Current Net-Zero Energy and Net-Zero Carbon Certification Programs," BuildingGreen, June 2020
- "How LEEDv4.1 Addresses Climate Change," USGBC Webinar, June 11, 2020
- "A Roadmap to Holistic Building Decarbonization," USGBC Webinar, April 30, 2020
- "LEED Zero and 4.1: Learning to Love LEED Again," LEEDuser, January 31, 2019
- "Policy Barriers to Net Zero Energy," Organized by ICLEI for the California Net Zero Energy Cohort, October 2019
- "Net Zero Carbon, Water, and Energy + Decarbonizing at the District Level," St. Louis, August 2019
- "Tackling Climate Change: Tools, Technology and LEED," Greenbuild Conference, Atlanta, November 2019
- "Sustainability Occupant Well Being, and Better Buildings Through Smart Systems," I2SL, October 2019
- "District-scale Electrification Case Study," NREL workshop on Maximizing Value of DERs. Golden, CO August 2019
- "Zero Energy Buildings for All" BuildingGreen.com, May 2018
- "Shifting the Building Industry: Integrating to Accelerate a Clean Energy Future," VERGE Hawaii – June, 2018
- "Sustainability Reboot: An Accelerating Era of Innovation," HD Design Expo – May 2017.
- "What We Mean When We Talk About Sustainability," NEWH Leadership Conference – February 2017.
- "Net Zero Energy Is Achievable: Here's How," BuildingGreen – August 2016.
- "The Disruptive Forces Transforming Our Built Environment," CEC (Colorado Energy Coalition) – February 2016.

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- “WE, ARE, the 75%. How most buildings don’t qualify for Energy Star or LEED, and what to do about it,” IFMA, 2016.
- “The Rise of the Healthy Building Movement,” CREJ Journal: July 2015.
- Opening Keynote, 35th Utility Energy Forum: May 2015.
- ULI Fall Conference, “Communities Designed Around Health: A Moral Imperative” – October 2012.
- Rocky Mountain Utility Energy Efficiency Conference, “The Role of Utilities in the Future” – October 2012.
- Rocky Mountain Land Institute, “Best Practices and Lessons Learned in Sustainable Housing” – March 2012.
- Art Institute of Colorado, Spring Graduation Commencement Speech – Spring 2011.