

# Year in Review

July 2021-June 2022

Building sustainable prosperity in a changing global environment through rigorous, policy-relevant, interdisciplinary research and training of the next generation of leaders



**CIERP**  
Center for International  
Environment & Resource Policy



**lf FLETCHER**

*The graduate school  
of global affairs  
at Tufts University*

# CIERP by the Numbers



New low cost homes fitted with solar panels in the Alexander Township of Johannesburg, South Africa.

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## 2021-2022 Directors' Note

Dear Friends,

We are pleased to share our Year in Review with you. This report is entirely electronic and allows you to link to our website and publications for more information as you peruse it. We hope you will take a few moments to learn about the work that has been accomplished at our center during the past year.

As you will see, we've created a new research lab led by Professor McCracken focused on water diplomacy; expanded the Climate Policy Lab's work to ten developing countries, plus the United States; scaled up the adoption of environmental technologies in Niger and developed and tested interventions to support learning via mobile phones, to name a few new initiatives.

In everything we do, we mentor, nurture, and teach the amazing students who come to Fletcher to study climate change, water conflict and cooperation, and sustainable economic development. We apprentice them as research assistants, teaching assistants, and pre- and post-doctoral research fellows. We have also been fortunate to support Visiting Scholars and Visiting Professors. This year, we launched a new Climate Policy Summer Academy that included government officials and experts from India, Indonesia, Vietnam, South Africa, Sierra Leone, Ethiopia, Columbia, Brazil, and Mexico.

We are engaged in the real world. Our 20+ affiliated faculty have had a busy year briefing American policymakers in the Biden Administration and Congress, the US Department of Energy, the European Central Bank Climate Change Center, India's parliamentarians and government ministries, China's climate-related government officials, and countless others via Track II Dialogues and public



webinars. We've shared our insights with the media, including the *Wall Street Journal*, *Foreign Affairs*, *The Washington Post*, and the *New York Times*, among others.

We hope that you will benefit from some of our [new publications](#), and look forward to seeing you at some of our in-person and remote events during the next year.

Sincerely,

Jenny C. Aker  
CIERP Co-Director  
Director of the Fletcher Leadership Program  
in Financial Inclusion (FLPFI)  
Professor of Development Economics

Kelly Sims Gallagher  
CIERP Co-Director  
Director of the Climate Policy Lab  
Academic Dean and Professor  
of Energy & Environmental Policy

# Research Funding and Partnerships

In 2021 - 2022, we secured \$2,980,000 in new research funding for the coming years from 13 private foundations, federal and state agencies, corporations, and individual donors. We gratefully [acknowledge our supporters on our website](#).

Our network of partnerships continues to expand, including policymakers across the globe and numerous institutions. Over the past year, our partners included:

- CDP North America
- Council on Energy, Environment and Water in India
- Energy Innovation
- Ethiopian EPA
- Greentown Labs
- Harvard Kennedy School
- International Solar Association
- Massachusetts Bay Transportation Authority
- Niger's Ministry of Education
- Niger's Ministry of Environment
- Sahel Consulting
- Tsinghua University
- University of Abdoul Moumouni
- University of California at Santa Barbara
- UN Economic Commission for Africa (UNECA)
- University of Diffa
- Winrock International
- Woodwell Climate Research Center

## LEARN MORE



## Research News: Climate Policy Lab

- Equity and U.S. energy innovation policy** – Equity and U.S. energy innovation policy – Research led by Kelly Sims Gallagher and funded by the Sloan Foundation, with contributions from Amy Myers Jaffe, Gilbert Metcalf, and Deborah Sunter, resulted in four major papers being published on tax credits, loan guarantees, green banks, and RD&D.
- Climate risk and U.S. national security** – Research led by faculty affiliates Monica Duffy Toft and Karen Jacobsen, supported by Deloitte, resulted in two major publications on climate risk, national security, migration, and social justice.
- Policy pathways for deep decarbonization** – The Climate Policy Lab (CPL) is working with many in-country partners to identify specific policy pathways for deep decarbonization. In each case, CPL is developing a climate policy inventory, surveying and interviewing experts, and then developing a systems dynamic model specific for

the country. CPL has published decarbonization pathways findings for China and is about to publish similar research results for India. Work is continuing on an additional 10 countries: Indonesia, Brazil, Mexico, South Africa, Ethiopia, Colombia, Vietnam, Malaysia, Philippines, and Turkey. In June 2022, CPL hosted a capacity building program, the “Climate Policy Summer Academy,” to work with our country partners in how to use the Policy Gap Analysis methodology.

- U.S. climate and energy security crisis response** – Amy Myers Jaffe appeared before the US House of Representatives Select Committee on the Climate Crisis at a hearing entitled “Cleaner, Cheaper Energy: Climate Investments to Help Families and Businesses.” She also advised the Biden Administration on responses to rising fuel costs and Ukraine. Prof. Jaffe presented to the Congressional Joint Economic Committee on current energy markets and prices. Additionally, she presented to the European Central Bank Climate Change Center in April 2022.

### LEARN MORE



Explore Climate Policy Lab's website



Participants of the Climate Policy Summer Academy at The Fletcher School

Continued on next page

# Research News: Climate Policy Lab *continued*

## Featured Publications:



**Gilbert Metcalf** authored the Climate Policy Lab policy brief, (2021) "[Supporting Low-Carbon Energy Through a New Generation of Tax Credits.](#)"



**Stephany Griffith-Jones** and **Kelly Sims Gallagher** co-authored the Climate Policy Lab policy brief, (2021) "[How a U.S. Green Bank Could Make the Economy Greener and Fairer.](#)"



**Gregory Nemet** and **Kelly Sims Gallagher** co-authored the Climate Policy Lab policy brief, (2021) "[Promoting Inclusive and Impactful Research, Development, and Demonstration Programs.](#)"



**Amy Myers Jaffe** authored the Climate Policy Lab policy brief, (2021) "[U.S. Loan Guarantee Program Needs Deeper Clarification of Goals and Metrics.](#)"



**Monica Duffy Toft** and **Jayashri Lokarajan** co-authored the Climate Policy Lab policy brief (2022), "[Climate Change-Induced Disrupting Threats and US National Security.](#)"



**Karen Jacobsen** and **Marina Lazetic** co-authored the Climate Policy Lab policy brief (2022), "[Climate change, social justice, and dislocation in the United States: Recommendations for Policy Makers.](#)"

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*Amy Myers Jaffe presenting at the Climate Policy Summer Academy*



The Tufts University delegation at COP26 in Glasgow, Scotland.

## LEARN MORE



Read Climate Policy Lab's publications [here](#).



Learn more about Climate Policy Lab's featured projects [here](#).



Explore Climate Policy Lab's policy databases [here](#).

## Research News: Climate Policy Lab *continued*

- U.S. Infrastructure Bill, Innovation and Competition Act, and LEADING Act** – Gallagher's co-authorship of the National Academy of Sciences Deep Decarbonization study led to briefings of dozens of Biden Administration and Congressional officials. Almost all of the recommendations related to infrastructure were incorporated into the bill that passed. Almost all of the NAS recommendations related to clean energy, infrastructure, and establishment a green bank were incorporated into the infrastructure bill and Inflation Reduction Act. The CHIPS and Science Act was also informed by this study.
- Climate Finance** – Mobilizing adequate finance for climate action is an essential component of climate change policy. At CPL this year, we featured several new studies on climate finance looking at how governments can best mobilize green finance through a variety of different kinds of policy tools and mechanisms.
- COP26** – Tufts University sent a delegation of 32 students, faculty, and staff to COP26, where they participated in events, shared information, conducted research, and held meetings with current and future partners and funders.
  - Climate Policy Lab co-organized the side event, "[Cooperation for Net-Zero and Climate Resilience: Ethiopian and Chinese Perspectives](#)," with the Ethiopian Environment, Forests, and Climate Change Commission, the Global Development Policy Center of Boston University, and the Chinese Greenovation Hub. The event focused on coal and climate resilience and cooperation, with insights from Ethiopia and China's experiences with overseas development finance.
  - Kelly Sims Gallagher** presented at the event, "[New Green Ambition: Towards A Broader Climate Agreement](#)," hosted by Climate Policy Lab's frequent collaborator, Jayant Sinha, a Member of the Indian Parliament. This event was the launch of a

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Climate Policy Lab retreat at Cape Cod on June 8, 2022

## Research News: Climate Policy Lab *continued*

compendium of studies, including a publication, "[India's policy pathways for deep decarbonization](#)," by Gallagher, Fletcher junior fellow **Tarun Gopalakrishnan**, and Fletcher postdoctoral scholar **Easwaran Narassimhan**.

- Fletcher Professor of Practice **Barbara Kates-Garnick** organized and moderated a virtual panel as part of the US Climate Action Center pavilion: "[Offshore wind: Critical to Achieving US Climate Goals](#)," which focused on how offshore wind will enable the U.S. coastal Northeast - New York and New England in particular - to achieve their own pathways to GHG reduction. Speakers included: Mayor of Somerville and president-elect of NECEC **Joseph Curtatone**, current NECEC president **Peter Rothstein**, MIT Energy Initiative Executive Director **Martha Broad**, and Fletcher's **Mieke van der Wansem**.

### Featured Publications:



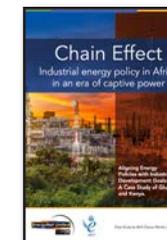
**Rishikesh Ram Bhandary** authored, "[National climate funds: a new dataset on national financing vehicles for climate change](#)" in Climate Policy. (2022).



**Kelly Sims Gallagher, Stefan Koester, and Easwaran Narassimhan** co-authored, "[Carbon Pricing in the US: Examining State-Level Policy Support and Federal Resistance](#)," in Politics and Governance. (2022).



**Easwaran Narassimhan, Kelly Sims Gallagher, and Tarun Gopalakrishnan** co-authored, "[India's policy pathways for deep decarbonisation](#)" in the Observer Research Foundation's essay series, "Shaping our green future: Pathways and Policies for a Net-Zero Transformation." (2021).



**Seth Owusu-Mante** authored, "[Chain effect: Industrial Energy Policy in Africa in an era of Captive Power - Aligning Energy Policies with Industrial Development Goals in Developing Economies: A Case Study of Ghana and Kenya](#)," in Energynet Limited. (2021).

See Climate Policy Lab's full list of publications at <https://www.climatepolicylab.org/publications>



The Tufts CREATE Solutions retreat at Waltham Woods.

## Research News: Joint Research

### • Sustainable Agriculture

Zero budget natural farming (ZBNF) is an emerging agroecological approach to sustainability that has the potential to address positive outcomes for agricultural, environmental and socioeconomic goals. In this effort, researchers are testing in the field whether large scale ZBNF can play a positive role in reducing greenhouse gas emissions through a reduction in fuel consumption and manufactured fertilizer inputs associated with cultivation.

### • Urban Resilient Adaptation

Together with partner **Woodwell Climate Research Center**, **The Climate Policy Lab** is providing climate science risk assessment for specific cities, starting with Addis Ababa, to assess geospatially what neighborhoods are most vulnerable to climate stressors and offer city planners policy tools to meet social justice goals while simultaneously addressing climate shocks.

### • Tufts CREATE Solutions

- Tufts CREATE Solutions, a university-wide research initiative focused on solving the integrated nature of the technical, environmental, and societal challenges we face, hosted webinars with speakers Deputy Director for Energy Justice and Secretary's Advisor on Equity at the United States Department of Energy **Shalanda Baker** and President at LG Energy Solution Michigan Inc. Tech Center **Denise Gray**.
  - The faculty members of the Tufts CREATE Solutions gathered for a retreat on June 6 and June 7, 2022.
  - CREATE awarded \$15,000 in seed funding and \$35,000 in climate fellowships to 7 students.
- Professor **Barbara Kates-Garnick** and Tufts Engineering professors **Eric Hines** and **Aleksandar Stankovic** were awarded a grant from the National Offshore Wind Research and Development Consortium (NOWRDC) of the New York State Energy Research and Development Authority to develop transmission expansion planning models for an interregional onshore/offshore electricity grid.

### Featured Publication:



Tufts CREATE published the second paper in the CREATE Solutions in a Changing World discussion paper series, "[Zero Budget Natural Farming in Andhra Pradesh: A Review of Evidence, Gaps, and Future Considerations](#)" by Tufts Professor **Timothy Griffin**, Fletcher alum **Sabrina Rose**, and **Jeremy Halstead**.

# Research News: Technology and Development

- Professor **Jenny Aker** finalized her work on environmental technology adaptation in Niger, and received follow-up funding to scale-up the project from KCAI at the Massachusetts Institute of Technology.
- Prof. Aker also received funding from The French Innovation Development Fund for a cell phone-based literacy program, called CELL-ED.
- Prof. Aker is working on a new book, titled “Mobile Phones and Development: Does the evidence meet the hype?” to be released in 2023.

## Featured Publication:



**Melissa Hidrobo, Jenny C. Aker, Daniel O. Gilligan, Natasha Ledlie and Giordano Palloni**, co-authored “[Paying for Information: Assessing Farmers’ Willingness to Pay for a Digital Agriculture and Nutrition Service in Ghana.](#)” in *Economic Development and Cultural Change*. 2022.

## LEARN MORE



Explore the research and technology page on our website



Solar panels fitted to charge smart phone batteries in the Sahara desert.

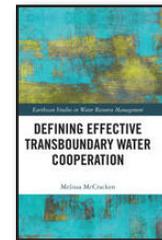


Irrigation systems in California.

## Research News: Water Diplomacy

- Professor **Melissa McCracken** started the [Shared Waters Lab](#), a research initiative that works to explore the complexities surrounding cooperation over freshwater resources that transect or define boundaries, with the aim to promote and encourage effective cooperative processes that are equitable and sustainable. The lab conducts mixed methods research utilizing a range of tools, including policy and event analysis, geospatial visualization, qualitative coding, and interviews.

### Featured Publication:



**Melissa McCracken** authored the book, [Defining Effective Transboundary Water Cooperation](#). Routledge: New York. Available on 31 March 2022.



Shared Waters Lab

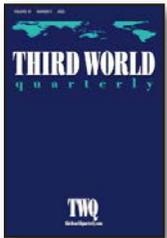
### LEARN MORE



Explore the Shared Waters Lab website.

# Research News: Rising Power Alliances

- The Rising Power Alliances project has been at the forefront of academic and policy debates about the changing nature of alignments in global governance and the relationships among major powers.
- The situation in Ukraine exposed the growing polarization between the West vs. Russia and China in terms of approaching security, energy, and sustainable development. The project publications feature an online book “Can BRICS De-dollarize the Global Financial System” published by Cambridge University Press Elements. The publication laid out how the BRICS countries have built a nascent infrastructure to move away from the dollar. A related *Foreign Affairs* article on the Anti-Dollar Axis argued that imposing sanctions on Russia is a short-term strategy that undermines U.S. power in the long term. In another publication in *Third World Quarterly*, authors **Mihaela Papa** and **Zhen Han** examined why middle powers such as Brazil pursue their security interests through BRICS as a part of their larger development agenda.



## Featured Publications:

**Zhen Han and Mihaela Papa** authored, *Brazilian Alliance Perspectives: Toward a BRICS Development-Security Alliance?*. in (2022) *Third World Quarterly*.

**Zoungyuan Liu and Mihaela Papa** authored, *Can BRICS De-dollarize the Global Financial System? (Elements in the Economics of Emerging Markets)* in (2022) Cambridge University Press.



## LEARN MORE



## Featured Faculty and Fellows

- **Kelly Sims Gallagher** spoke at the Harvard Kennedy School JFK Forum, "[Economic Olympics: Can China Win Gold?](#)"
- **Kelly Sims Gallagher** sat on a panel during [Senator Ed Markey \(D-MA\) and White House National Climate Advisor Gina McCarthy's](#) visit to Tufts University, where she discussed clean energy and equitable job creation.
- **Kelly Sims Gallagher** participated in Track II dialogues on climate policy with China and India.
- **Barbara Kates-Garnick** delivered opening and closing remarks and was a moderator for an event on offshore wind hosted by *Resources for the Future*, "Today's Challenges and Tomorrow's Opportunities."
- **Melissa McCracken** was an invited speaker at the World Bank Webinar on China's Transboundary Waters and Agreements as part of a larger program on "Global Transboundary Waters and Transboundary Water Agreements."



Graham Allison and Kelly Sims Gallagher at the "Economic Olympics: Can China Win Gold?" HKS JFK Forum

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See our affiliated faculty on our website.

Continued on next page

## Featured Faculty and Fellows *continued*

- **Amy Myers Jaffe** appeared before the U.S. House of Representatives Select Committee on the Climate Crisis at a hearing entitled “Cleaner, Cheaper Energy: Climate Investments to Help Families and Businesses.” She also advised the Biden Administration on responses to rising fuel costs and Ukraine. Prof. Jaffe also presented to the staff of the Congressional Joint Economic Committee on current energy markets and prices and to the European Central Bank Climate Change Center in April.
- **Jenny Aker** presented research seminars at NYU-Abu Dhabi, Cornell University, Bentley University, Global Policy Insights, World Bank, Williams College, and Wageningen University and Research.
- **Amy Myers Jaffe** was a media briefer with the U.S. State Department Washington Foreign Press Center, where she briefed journalists from the European Union, India, and United Arab Emirates Sustainability Ministry on climate change and the future of energy. [Watch a briefing here.](#)
- Fellow **Bethany Tietjen** assisted the U.S. Department of State’s Office of the Special Presidential Envoy for Climate in preparing an analysis of the alignment between adaptation finance allocation and climate vulnerability based on the ND-GAIN global climate vulnerability rankings.



Senator Ed Markey (D-MA) and White House National Climate Advisor Gina McCarthy at The Fletcher School, Tufts University.

### LEARN MORE



Learn more about our research fellows on our website.



## Completed Doctoral Work

**Zdenka Myslikova** successfully defended her dissertation in October, “Strengthening Clean Energy Technology Innovation in Emerging Economies.”

- Zdenka Myslikova’s dissertation examines how emerging economies build their clean energy technology innovation ecosystems and assesses their performance and the efforts of local innovative companies. It is comprised of three connected studies and argues that emerging economies in Latin America have been burdened with dysfunctional institutions that have created obstacles for local actors to pursue clean energy technology innovation. Local small and medium-sized enterprises have to be adaptable and circumvent the obstacles with informal institutions if they want to succeed in innovating. The dissertation draws on interviews with over 90 experts in Brazil, Chile, and Mexico.



**Qi Qi** successfully defended her dissertation in April, “The Impact of US/EU-China Solar Panel Trade Dispute on Solar Power Deployment among Developing Countries.”

- Qi Qi’s dissertation featured three essays. The first essay explores how the US/EU-China solar panel trade dispute may have influenced solar power deployment among developing countries. The second essay is on the educational effects of rural electrification in Jaunpur, a district of Uttar Pradesh in India. In the third essay, Qi used a panel data that consists of firm and plant-level basic information and patenting portfolio to employ a quasi-experimental empirical strategy to evaluate whether China’s ETS pilots and a stringent air pollution control policy have differentiated impacts on the innovation activities of firms in the iron and steel sector.

*Top: Zdenka Myslikova celebrating her successful dissertation defense with her committee, Laura Diaz Anadon, Katrina Burgess, and Kelly Sims Gallagher.*

*Bottom: Qi Qi celebrating her successful dissertation defense with her committee, Kelly Sims Gallagher, Ujjayant Chakravorthy, and Shinsuke Tanaka.*

## Students

57 students employed at CIERP

207 graduating students took at least 1 environment or development course

34 graduating students took 3 or more environment or development courses

28 graduating students were advised by CIERP faculty on their capstones

Much of our student support is made possible by your generous gifts. These funds allow us to support an internship program, student-organized events, and travel grants for experiential learning.

## Alums



**Stefan Koester, MALD '19**, is currently a senior policy analyst at the Information Technology & Innovation Foundation, a think tank focused on the critical role of technology innovation in helping to solve our most pressing global challenges. Working in the Center for Clean Energy Innovation, he is primarily focused on the role of national and global trade policy on clean-tech innovation and how to spur increased investment and deployment into critical RD&D for hard-to-abate emissions from the industrial sector.



**Sabrina Rose, MALD '21**, is the Science Officer for the initiative, "Building Systemic Resilience Against Climate Variability and Extremes" or ClimBeR within the CGIAR, the world's largest agricultural research network. In her role, she manages the implementation of the three-year initiative, coordinating across four research areas spanning climate and food policy and agricultural risk management. Sabrina relies often on her experience learning about UNFCCC processes, food policy, and development aid in CIERP courses as well as her support for Professor Jenny Aker and Professor Tim Griffin's research on climate adaptation in agriculture.



*CIERP students, faculty, and staff gathered for a celebratory breakfast prior to commencement weekend.*



*Students of the Innovation for Sustainable Prosperity course on a field trip to MIT.*

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*Read more about our alums' accomplishments on our website.*

# Outreach and Impact

21 events

8k [CIERP website](#) visitors

13k [Climate Policy Lab website](#) visitors

161k Twitter impressions for

@CIERP\_Fletcher

1563 [Twitter followers](#); 888 [Facebook followers](#); 417 [LinkedIn followers](#)

The CPL *Community Voices* blog included special contributions connecting students and alums for Black History Month, Women's History Month, Asian American and Pacific Islander Heritage Month, Native American Heritage Month, and Hispanic Heritage Month, as well as blog series by students for Earth Month and Pride Month. [Read Here](#)

The CPL *Climate Smart* blog continued to feature high level evidence-based climate policy analysis. [Read Here](#)

Media mentions in global outlets including the Wall Street Journal, Foreign Affairs, New York Times, and Reuters. **Media mentions: 80**

- **Kelly Sims Gallagher** wrote the articles, "[The Coming Carbon Tsunami](#)" and "[The Net Zero Trap](#)" in *Foreign Affairs*.
- **Amy Myers Jaffe** wrote, "[The Electrification of Everything: What You Need to Know](#)," "[Denial of Electricity Service Could Become Next Geopolitical Weapon](#)" and "[This Was the Year Investors and Businesses Put Big Bets on Climate - WSJ](#)" in *The Wall Street Journal* and "[Electricity Is the New Oil | Foreign Affairs](#)" in *Foreign Affairs*.
- **Mihaela Papa** and CIERP postdoctoral scholar, **Zongyuan Zoe Liu** co-wrote the article, "[The Anti-Dollar Axis: Russia and China's Plans to Evade U.S. Economic Power](#)" in *Foreign Affairs*.
- **Amy Myers Jaffe** was a regular contributor to the Energy Gang podcast, featured on shows where she discussed [the IPCC report](#) and [the gap between finance and climate change](#).



Kelly Sims Gallagher speaks to the press at COP26 in Glasgow, Scotland.



Hengrui Liu presents at a CIERP research seminar on China's emissions trading scheme.

## LEARN MORE



Explore all of CIERP's media mentions on our website.



Register for future CIERP events here.



Subscribe to the Climate Smart blog here.

Annual Center Growth by Fiscal Year



Total Expenditure by Funding Source FY22



Grants • \$1,999,519\*  
 Fletcher School Contributions • \$134,005  
 Gifts • \$61,907  
 University Contributions • \$31,225  
 Earned Income • \$37,724\*  
**TOTAL • \$2,264,380\***



Total Expenditures ■  
 Affiliated Faculty ■  
 Active Grants ■

\*This number does not reflect the full amount spent on the Climate Policy Summer Academy in June 2022.

# Staying Connected

Thank you to the many supporters of CIERP and the Climate Policy Lab who make our work possible. Please connect with us to hear about our latest work and send us your own updates!

 [sites.tufts.edu/cierp](https://sites.tufts.edu/cierp) • [climatepolicylab.org](https://climatepolicylab.org)

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## **Center for International Environment and Resource Policy**

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