

# International Energy Analysis News from Berkeley Lab

June 28, 2022



Hello and welcome to our new newsletter devoted to Berkeley Lab's International Energy Analysis research.

Our team collaborates globally to develop sustainable, affordable energy policy, technology, and market solutions. We specialize in wide-reaching, impactful research about appliance efficiency, high-performance buildings, transportation, energy modeling and pathways to zero carbon energy systems, energy access and distributed energy, and financing. For more than thirty years, we have been working with national and local governments, academia, and the private sector in some of the fastest-growing countries, including China and India, and other economies in Asia-

Pacific, Latin America, Europe, and Africa. We strive to positively affect the lives of everyday people and communities around the world.

Featured in this newsletter are Berkeley Lab's contributions to the leadership of the Department of Energy's Net Zero World team, our contributions to the IPCC Sixth Assessment Report on climate change mitigation, studies about how China and India can decarbonize their power systems, and an application of the CityBES tool to identify energy savings and greenhouse gas emissions reductions from social housing in Venice.

Please add us to your address book and please forward this newsletter to any colleagues you believe might be interested.

Sincerely,

Thomas Kirchstetter  
Director, Energy Analysis & Environmental Impacts Division  
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## Featured News





## Net Zero World Leadership Team

Berkeley Lab international researchers are part of a multi-national laboratory team working together on the Department of Energy's (DOE's) Net Zero World (NZW) team.

Part of the effort includes an NZW Action Center that brings together 10 DOE National Laboratories, nine U.S. government agencies, philanthropists and others to promote net zero emission energy systems around the world that are inclusive, equitable and resilient.

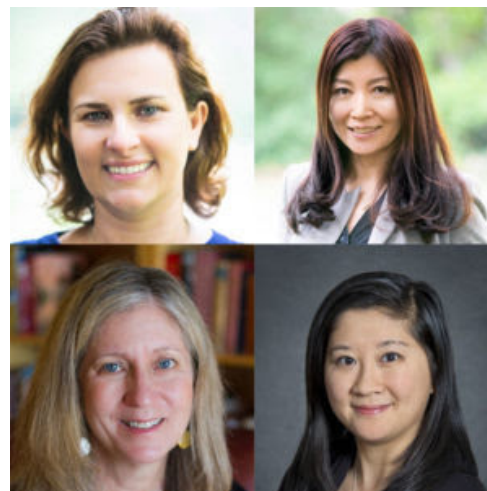
Read more: [international.lbl.gov/news/leadership-net-zero-world-action](https://international.lbl.gov/news/leadership-net-zero-world-action)

## Our Latest Research

### Achieving Climate Goals Will Require Transformational Changes

Energy Technologies Area researchers contributed to the third and final installment of the Intergovernmental Panel on Climate Change's (IPCC's) Working Group III Sixth Assessment Report on Mitigation of Climate Change. Senior Scientist **Nan Zhou** and **Stephane de la Rue du Can** were lead authors, **Nina Khanna** was a contributing author, and **Lynn Price** served as a U.S. government expert reviewer. Additionally **Mary Ann Piette** and **Michael McNeil** served as government reviewers on the Buildings chapter.

The researchers shown in the accompanying picture from top left clockwise are: de la Rue du Can, Zhou, Khanna and Price.



The message is clear from the report that achieving climate goals will require aggressive and comprehensive actions, which are a must to achieve net zero emissions worldwide by mid-century.

Read the full article: [newscenter.lbl.gov/2022/04/04/achieving-climate-goals-will-require-transformational-changes/](https://newscenter.lbl.gov/2022/04/04/achieving-climate-goals-will-require-transformational-changes/)

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## Venice, Italy Housing Solutions

We've recently used a versatile tool, [CityBES](#) to pinpoint actions that can help the historic canal city slash energy use and reduce carbon dioxide emissions.

Read the full article: [international.lbl.gov/news/how-venice-italy-can-cut-carbon](https://international.lbl.gov/news/how-venice-italy-can-cut-carbon)



## Renewable-dominant Power in China

Check out this fascinating report on how China can overcome the current logistical challenges of decarbonizing its power system by reforming some key select operational practices.

"Moving toward a regional model of operation and planning are key to transition to a renewable-dominant new power system in China," said the report's author, Jiang Lin, Nat Simons Presidential Chair in China Energy Policy at Berkeley Lab.

Read more: [international.lbl.gov/news/building-renewable-dominant-power](https://international.lbl.gov/news/building-renewable-dominant-power)



## Low-Cost Storage is Key to India's Clean Power Target

India is ready to leapfrog to a more sustainable system for delivering affordable and reliable power to serve nearly a doubling in electricity demand by 2030, according to a new study by Berkeley Lab researchers Nikit Abhyankar, Shruti M. Deorah and Amol A. Phadke.



Their ground-breaking work models the least-cost and operationally feasible pathway for India's electricity grid through 2030 that validates -- and surpasses -- India's 2030 target of 500 GW of installed non-fossil capacity.

Read the full article: [international.lbl.gov/news/low-cost-storage-key-india-clean](https://international.lbl.gov/news/low-cost-storage-key-india-clean)

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