Jiang Lin
lin.jiang@berkeley.edu

A distinguished scientist with broad experience in energy and climate research, strategic thinking, and organizational building

EXPERIENCE

Lawrence Berkeley National Laboratory **2016-present**
Nat Simons Presidential Chair in China Energy Policy
Staff Scientist, Energy Markets and Policy Department
Academic Advisory Board member, California-China Climate Institute
Director, Berkeley Tsinghua Joint Research Center on Energy and Climate Change (2016-2020)

- Research focusing on power sector decarbonization, reduction of short-lived climate pollutants (methane, F-gasses, and N2O), appliance efficiency standards, and low-carbon economic transition in China and internationally. Advising government agencies on climate solutions (SPEC, DOE, EPA) and leading philanthropic organizations on their investment in clean energy and climate space.
- Led the establishment of Berkeley-Tsinghua Joint Research Center on Energy and Climate Change, and the development of strategic plans on research, education, and outreach to university, industry, and philanthropic stakeholders.

University of California, Berkeley
Adjunct Professor, Department of Agricultural and Resources Economics **2018-present**
Courses: Energy and Climate Policy in China; Climate, Energy, and Development (2018, 19)

Energy Foundation
Senior Vice President, China Strategy and Analysis **2014-2016**

- Strategic planning and analysis to support Energy Foundation's China program to expand to cross-cutting initiatives.
- Brought together a group of Chinese and US think-tanks to work collaboratively on flagship studies on China's energy and climate scenarios such as Re-Inventing Fire China and China's 2050 Renewable High Penetration Scenario Analysis.
- Engaged in high-level energy and climate policy dialogue between US/California and China
- Fundraising in US and Asia

Energy Foundation
Vice President/Chairman/Director, China Sustainable Energy Program **2007-2013**

- Leadership of the largest international environmental NGO in China, the China Sustainable Energy Program (CSEP), which supports policy development and implementation to promote clean energy and climate solutions in China.
- Oversaw strategy development and outreach to both national and local stakeholders in China.
- Led the rapid organizational growth from 12 staff and $12 million in 2007 to 39 staff and $45 million in 2013.
- Expanded energy sector programs to include urban planning and air quality, with a project portfolio of over 230 projects per years, and build partnership with leading institutions in and outside of China
- Led the development of a ten-year strategic plan for EF China
- Incubated three subsidiaries: China Sustainable Transportation Center (urban and transit design), iGDP (low-carbon economy think-tank), and Clean Air Alliance of China (NGO on air quality improvement).
- Expanded new funding partnership in Europe, and created new revenue models in China

Lawrence Berkeley National Laboratory **1994-2007**
Staff Scientist/Scientist, **China Energy Group and Appliance Standards Group**

- Led LBNL's research and advisory activities to various Chinese agencies on their energy efficiency target (a 20% reduction in energy intensity) set in China's 11th Five-Year Plan
- Conducted research in the areas of energy policy, low-carbon development paths, energy efficiency investment in China, energy demand modeling and scenarios, and energy use in buildings.
- Served as an advisor to various Chinese and multilateral agencies (UNDP, IFC, and ADB).

University of Pennsylvania **January 1993-August 1994**
NIA PostDoctoral Fellow

- Research projects included: 1) study of financial feasibility of China's pension and social security programs; and 2) the relationship of population and the environment.

Environmental Defense Fund **August-November 1992**
Energy Analyst

- Analyzed strategic planning of the electric utility industry to search for both cost-effective and environmentally-friendly solutions to serve the future demand for energy.

Institute of Population and Economic Research, Xi'an Jiaotong University **1984-1987**
Research Associate

- Conducted econometric analysis of regional economy and advised provincial governments on strategic economic development planning. Taught classes on population.

EDUCATION

Ph.D. in Demography, *University of California at Berkeley, 1992*
Honorable Mention in **John Heinz Dissertation Award**, the National Academy of Social Insurance: "*Parity and Security: A Simulation Study of Population Aging, Kinship Network, and Old Age Security in China*."
M.S. in Operations Research, *Xi'an Jiaotong University, 1987*
B.S., *Department of Cybernetics Engineering, Xi'an Jiaotong University, China, 1984*
Executive Education Program on Leadership, Harvard Business School, May, 2012

AWARDS AND FELLOWSHIPS

Nat Simons Presidential Chair in China Energy Policy, Lawrence Berkeley National Lab (2017-present)
Best Mention, John Heinz Dissertation Award, the National Academy of Social Insurance, 1993
NIA PostDoctoral Fellow, 1993-94
Population Council Fellow, 1991
Rockefeller Fellow, 1990
Ritchie Reed Fellow, 1989
Population Council Fellow, 1987-89

PROFESSIONAL SERVICES

International Expert on Special Policy Study on Green Urbanization, China Council for International Cooperation on Environment and Development, 2018-2021
Member, National Committee of US-China Relationship, 2009-present
Advisory Board Member, Jackson Hole Center for Global Affairs, 2018-present
Member, Pacific Council of International Policy, 2009-2016
Board Member, China Sustainable Transportation Center, 2007-2015
Member, Leadership Council, China US Energy Efficiency Alliance, 2007-2016
Board member, Shanghai Pacific Energy Center, 2002-2008

LANGUAGE

Chinese, native, excellent
English, excellent

SELECTED PUBLIC SPEAKING

International Summit on Electricity Market (2019)
CCICED 2017 and 2018 Annual General Meeting
Chatham House Climate Change Conference (2017)
Aspen Institute Congressional Program (2008, 2016)
International Forum on Energy Transition (2016)
Sino-US Climate Leaders' Summit (2015)
Pacific Cities Sustainability Initiative Conference (2014, 2015)
SwissRe 150-year Anniversary Celebration Day (2014)
Vail Global Energy Forum (2014)
Sino-US Energy Efficiency Forum (2013, 2017)

PUBLICATIONS

Refereed archival journal articles:

1. Fritz Kahrl and Jiang Lin, 2024, "Changing economics of China's power system suggest that batteries and renewables may be a lower cost way to meet peak demand growth than coal," iScience, https://doi.org/10.1016/j.isci.2024.108975
2. Q Luo, F Garcia-Menendez, J Lin, G He, and JX Johnson, "Accelerating China's power sector decarbonization can save lives: integrating public health goals into power sector decisions," Env. Res. Letters, 10.1088/1748-9326/acf84b
3. CX Xiang, XY Zheng, F Song, J Lin*, ZG Jiang, 2023, "Assessing the roles of efficient market versus regulatory capture in China's power market reform," Nature Energy, https://doi.org/10.1038/s41560-023-01278-9
4. ZH Wang, H Li, B Zhang, B Wang, H Li, X Tian, J Lin, and W Feng, 2023, "Clean alternatives to heating gaps of combined heat and power withdraw under climate goals will disproportionately increase residential heating costs," Nature Energy, https://doi.org/10.1038/s41560-023-01308-6
5. Qian Luo, Fernando Garcia-Menendez, Haozhe Yang, Ranjit Deshmukh, Gang He, Jiang Lin, and Jeremiah X. Johnson, "The Health and Climate Benefits of Economic Dispatch in China's Power System," Environ. Sci. Technol. 2023 *57* (7), 2898-2906, https://doi.org/10.1021/acs.est.2c05663
6. Chen, Y.; Lin, J.; Roland-Holst, D.; Liu, X.; Wang, C. Declining Renewable Costs, Emissions Trading, and Economic Growth: China's Power System at the Crossroads. Energies 2023, 16, 656. https://doi.org/10.3390/en16020656
7. WJ Wang, N Khanna, J Lin, and X Liu, 2023 "Black Carbon Emissions in China: 2015–2050," Journal of Environmental Management, Vol 329, 2023.
8. N Abhyankar, J Lin*, F Kahrl, SF Yin, U Paliwal X Liu, N Khanna, Q Luo D Wooley, M O'Boyle, O Ashmoore, R Orvis, M Solomon, A Phadke, 2022, "Achieving an 80% carbon-free electricity system in China by 2035," *iScience*, https://doi.org/10.1016/j.isci.2022.105180
9. J Lin, N Khanna, X Liu, WJ Wang, J Gordon, and F Dai, 2022, "Opportunities to tackle short-lived climate pollutants and other greenhouse gases for China," *SciTotEnv*, https://doi.org/10.1016/j.scitotenv.2022.156842

10. T Ding, YG Sun; C Huang; CL Mu; YQ Fan; J Lin; and YN Qin, 2022, "Pathways of clean energy heating electrification programs for reducing carbon emissions in Northwest China," *Renewable and Sustainable Energy Reviews.* https://doi.org/10.1016/j.rser.2022.112679
11. J Lin, N Abhyankar, G He, X Liu, S Yin, 2022, Large balancing areas and dispersed renewable investment enhances grid flexibility in a renewable-dominant power system in China, *iScience* (2022)
12. Liu Z., Z Deng, G He, H Wang, X Zhang, J Lin, Y Qi, and X Liang, "Challenges and opportunities for carbon neutrality in China," *Nat Rev Earth Environ* (2021).
13. F Kahrl, J Lin*, X Liu, JF Hu, 2021, "Sunsetting coal power in China," *iScience* (2021)
14. JF Hu, QY Yan, F Kahrl, X Liu, P Wang, J Lin, 2021, "Evaluating the ancillary services market for large-scale renewable energy integration in China's northeastern power grid," *Utility Policy (2021)*
15. G He; J Lin; Y Zhang; WH Zhang; G Larangeira; C Zhang; W Peng; MZ Liu; FQ Yang, 2020**,** **"**Enabling a rapid and just transition away from coal in China," *One Earth*
16. W Du, M Li, Ke Li, and J Lin, "Impact of Energy Market Distortions on the Productivity of Energy Enterprises in China," September, 2020, the *Energy Journal.*
17. NF O'Neill, JM Ma, DC Walther, LR Brockway, C Ding, J Lin, 2020, "A Modified Total Equivalent Warming Impact Analysis: Addressing Direct and Indirect Emissions Due to Corrosion", STOTEN, doi.org/10.1016/j.scitotenv.2020.140312
18. A Phadke, N Shah, J Lin, WY Park, YS Zhang, D Zaelke, C Ding and N Karali, "Chinese Policy Leadership Would Cool Global Air Conditioning Impacts: Looking East," 2020, Energy Research & Social Sciences, https://doi.org/10.1016/j.erss.2020.101570
19. He, G, J Lin, F Sifuentes, X Liu, N Abhyankar, and A Phadke. "Rapid cost decrease of renewables and storage accelerates the decarbonization of China's power system". *Nature Communications*, **11,** 2486 (2020). https://doi.org/10.1038/s41467-020-16184
20. J Lin*, X Liu, G He, 2020, "Regional electricity demand and economic transition in China," *Utilities Policy*, https://doi.org/10.1016/j.jup.2020.101047
21. N Abhyankar, J Lin*, X Liu, F Sifuentes, 2020, "Economic and environmental benefits of market-based power-system reform in China: A case study of the Southern grid system," *Resources, Conservation and Recycling 153 (2020)*.
22. N Karali, N Shah, WY Park, N Khanna, C Ding, J Lin, N Zhou, 2020, *"Improving the energy efficiency of room air conditioners in China: Costs and benefits*," Applied Energy.
23. J Lin*, N Khana, X Liu, F Teng, and X Wang, 2019, "China's Non-CO2 Greenhouse Gas Emissions: Future Trajectories and Mitigation Options and Potential," *Scientific Reports*, *https://www.nature.com/articles/s41598-019-52653-0*
24. Jiang Lin*, Fredrich Kahrl, Jiahai Yuan, Xu Liu and Weirong Zhang. **"Challenges and strategies for electricity market transition in China**." *Energy Policy* 133 (2019) 110899.
25. Li, Hao, Jiang Lin*, Yuhuan Zhao, and Jia-Ning Kang. "Identifying the driving factors of energy-water nexus in Beijing from both economy- and sector-wide perspectives." *Journal of Cleaner Production*, July 2019. DOI: 10.1016/j.jclepro.2019.07.001.
26. Hao Li, Yuhuan Zhao*, Jiang Lin*. A review of the energy–carbon–water nexus: Concepts, research focuses, mechanisms, and methodologies. WIREs Energy and Environment, 2019, https://doi.org/10.1002/wene.358.
27. Hao Li, Yuhuan Zhao*, Song Wang, Jiang Lin. Scenario analysis of ETS revenue allocation mechanism of China: based on a dynamic CGE model. Environ Science and Pollution Research, 2019, https://doi.org/10.1007/s11356-019-05964-8.
28. Xu Liu, Jiang Lin*, Junfeng Hu*, Hongyou Lu, and Jiaru Cai. **"Economic Transition, Technology Change, and Energy Consumption in China: A Provincial-Level Analysis**." *Energies* 12.13 (2019) 2581.

29. Hu, Junfeng, Qingyou Yan, Xingmei Li, Zhong-Zhong Jiang, Fredrich Kahrl, Jiang Lin*, and Peng Wang*. "A cooperative game-based mechanism for allocating ancillary service costs associated with wind power integration in China." *Utilities Policy* vol 58, June 2019. DOI: 10.1016/j.jup.2019.05.008.

30. Jiang Lin*, F. Kahrl, JH Yuan, QX Chen, and X Liu, 2019, "Economic and carbon emission impacts of electricity market transition in China: A case study of Guangdong Province," *Applied Energy*, https://doi.org/10.1016/j.apenergy.2019.01.128

31. Jiang Lin, 2018, "China's electricity switch won't be swift or painless," *Nature*, DOI: **10.1038/d41586-018-06894-0**

32. CH Springer, S Evans, J Lin, and D Roland-Holst, 2018, "Low Carbon Growth in China: The Role of Emissions Trading in a Transitioning Economy," *Applied Energy*. https://doi.org/10.1016/j.apenergy.2018.11.046

33. H Huang, D Roland-Holst, C Springer, J Lin, W Cai, C Wang, 2019, "Emissions trading systems and social equity: A CGE assessment for China." Applied Energy, https://doi.org/10.1016/j.apenergy.2018.11.056

34. J Lin, DG Fridley, HY Lou, LK Price, and N Zhou, 2018, "Has coal use peaked in China: Near-term trends in China's coal consumption," *Energy Policy*.

35. SY Liu, CH Bie, J Lin, XF Wang, 2018, "Curtailment of renewable energy in Northwest China and market-based solutions, *Energy Policy* 123.

36. Wang Xin, Teng Fei, Zhang Jingjing, Nina Khana, and Jiang Lin, 2017, "Challenges to addressing non-CO_2 greenhouse gases in China's long-term climate strategy*," Climate Policy*

37. Jiang Lin, Fredrich Kahrl, Xu Liu, 2018, "A Regional Analysis of Excess Capacity in China's Power Systems," *Resources, Conservation, and Recycling 129 (2018) 93-101*.

38. Qing Shen, Simin Xu, and Jiang Lin, 2017, "Effects of Bus Transit-Oriented Development (BTOD) on Single-Family Property Value in Seattle Metropolitan Area," *Urban Studies*. https://doi.org/10.1177/0042098017729078

39. Jiang Lin, Gang He, and Alexandria Yuan, 2016, "Economic Rebalancing and Changing Electricity Demand in China," the *Electricity Journal 29 (2016), pp 48-54*.

40. Jiang Lin, Nan Zhou, Mark D. Levine, and David Fridley, 2008, "Taking out 1 billion tons of CO2: The magic of China's 11th Five-Year Plan?" *Energy Policy*, 36 (3): 954-970.

41. Jiang Lin and Gregory Rosenquist, 2008, "Stay cool with less work: China's new energy-efficiency standards for air conditioners," *Energy Policy*, 36 (3): 1090-1095.

42. Jiang Lin and Maithili Iyer, 2007, "Cold or Hot Wash: technological choices, cultural change, and their impact on clothes washing energy use in China," *Energy Policy* 35 (5): 3046-3052.

43. Jiang Lin, 2007, "Energy Conservation Investments: A Comparison between China and the U.S.," *Energy Policy* 35 (2): 916-924.

44. Jiang Lin, 2005, "A light diet for a giant appetite: An assessment of China's fluorescent lamp standard," *Energy*, 30 (10): 1873-1887.

45. Jiang Lin, 2002, "Appliance Standards and Labeling Programs in China," *Annual Review of Energy and Environment*, Vol. 27: 349–367.

46. Jiang Lin, 1995, "Changing Kinship Structure and its Implications for Old Age Support in Urban and Rural China," *Population Studies*, 1995.

47. Jiang Lin, 1994, "Parity and Security: A Simulation Study of Population Aging and Old Age Security in Rural China", *Population and Development Review*, June, 1994.

Non-refereed journal articles:

48. P Wang, SQ Han, ZY Chen, FQ Jia, J Lin, 2021, "电力市场与水资源市场协同发展机制研究 (Coordination mechanisms of electricity and water markets)," 价格理论与实践 (Price: Theories and Practices) ISSN 1003-3971, CN 11-1010/F

49. Jiang Lin, 2006, "Managing Energy Demand: The bridge to sustainability," *China Economic Quarterly*, Volume 10 Issue 4, Hong Kong, China

50. Jiang Lin, 2005, "One Rice Cooker, Two Cell Phones, and Three TVs: Consumer Appliances and the Energy Challenge for China," *Business Forum China*, Vol. 6, 2005, Shanghai, China.

51. Jiang Lin, 2002, "A Trickle Turns into a Flood: Standby Power Loss in China," *Sinosphere*, Winter, 2002.

52. Jiang Lin, 2002, "Made *for* China: Energy Efficiency Energy Standards and Labels for Household Appliances," *Sinosphere*, Winter 2002.

Books/Book Chapters:

53. C. ZHU, Zhang, and J. LIN, 1987, *Population Control: A Social System Engineering* (in Chinese), Popular Science Press, Beijing, China.

Book Chapter:

54. Jiang Lin, Abhyankar, Nikit, Xu Liu, and Froylan Sifuentes, 2019, "中国电力市场转型的挑战和对策（Challenges and Options of Power Market Transition in China)," in Chinese, *International Clean Energy Industry Development Report,* International Forum for Clean Energy.

Conference papers:

55. Q Luo, F Garcia-Menendez, J Lin*, JX Johnson*, "Operating the Power System in China for Climate and Public Health Benefits with Economic Dispatch,"2022 AEESP Conference, June 28-30.

56. J Lin, N Abhyankar, G He, X Liu, S Yin, "Assessing flexibility options and operational impact of a renewable- dominant power system in China," present at IEW 2022, Germany, May 25-27, 2022

57. J Lin, F. Karhl, JH Yuan, QX Chen, and X Liu, 2018, "Power market reform in China: Dividends, market impacts, and transition options," paper presented at 6th IAEE Asia Conference, November, 2018, Wuhan, China

58. X Liu, Jiang Lin, Junfeng Hu, Hongyou Lu, Jiaru Cai, and Cecilia Springer, 2018, "A provincial-level analysis of economic transition and energy consumption in China," paper presented at 6th IAEE Asia Conference, November, 2018, Wuhan, China

59. CH Springer, S Evans, J Lin, and D Roland-Holst, 2018, "Low Carbon Growth in China: The Role of Emissions Trading in a Transitioning Economy," paper presented at 6th IAEE Asia Conference, November, 2018, Wuhan, China

60. Jiang Lin, Xu Liu, Gang He, Jin Guo, 2017, "Regional Electricity Demand and Economic Transition in China," paper presented at the 35th USAEE/IAEE Conference, Houston, US

61. Jiang Lin, 2016, "Economic Restructuring and Energy Use in China," paper for the *Aspen Institute Congressional Education Program*, 2016.

62. Qing Shen, Simin Xu, and Jiang Lin, 2015, "Housing Price Premiums of Bus Transit Oriented Development (BTOD) in Seattle Metropolitan Area," paper presented at the *55th Annual ACSP Conference*, Houston, October 22, 2015

63. Jiang Lin, 2008, "Energy in China: Myths, Reality and Challenges," paper presented at the *Aspen Congressional Program*, March 2008, Hawaii.

64. Bressand, Florian, Zhou, Nan, and Lin, Jiang, 2007, "Energy use in commercial building in China: Current situation and future scenarios," *European Council for an Energy Efficient Economy (ECEEE) 2007 Summer Study Proceedings*, paper No. 5312, June 2007. Nice, France, LBNL-62839

65. Jiang LIN, Nan Zhou, Mark D. Levine, and David Fridley, "Taking out one billion tones of carbon: the magic of China's 11th Five-Year Plan," *European Council for an Energy Efficient Economy (ECEEE) 2007 Summer Study Proceedings*, paper No. 5312, June 2007. Nice, France, LBNL-62886

66. Jiang Lin and Maithili Iyer, 2005, "Cold or Hot Wash: How technological choices would lead to cultural change and potential increase in clothes washing energy use in China," in the *proceedings* of the *2005 European Council for Energy Efficient Economy (ECEEE) Summer Study*, Mandelieu, France, 2005, LBNL-57382.

67. DG Fridley, J Lin, A Denver, and T Dallivou, 2005, "Harmonization of CFL Specifications in the US, China, and Brazil," Proceedings of *Right Light 6*, Shanghai, China, May, 2005, LBNL-57812.

68. Debbie Brockett, David Fridley, Jieming Lin, Jiang Lin, 2002, "A Tale of Five Cities: An Analysis of Energy Consumption Patterns in Chinese Households," in the *Proceedings of the 2002 ACEEE Summer Studies on Energy Efficiency in Buildings*, Asilomar, California, USA, LBNL-50680.

69. Jiang Lin, Jeanne Townend, Robin Clark, Tony Silva, Gary McNeil and David Fridley, 2002, Energy-Efficient Refrigerator Labeling in China: Transferable Lessons for Successful Labeling Programs in Varied Markets," in the *Proceedings of the 2002 ACEEE Summer Studies on Energy Efficiency in Buildings*, Asilomar, California, USA, LBNL-50416.

70. Lin Jiang, Li Tienan, and Liu Jiang, "Standby power consumption in Chinese households," presented at the *3rd IEA Workshop on Standby Power Use: Toward a Harmonized Solution*. Tokyo, February 2001. LBNL-47427.

Reports:

71. Peng, LQ; G He, and J Lin, 2024, "**Role of Pumped Hydro Storage in China's Power System Transition,"** LBNL Report

72. Wang, WJ; N Khanna; X Liu, and J Lin, 2023, "**Measurement, reporting and Verification (MRV) of non-CO2 greenhouse gases: International Best Practices and Suggestions for China,"** LBNL Report

73. F Kahrl and J Lin, 2023, "The Changing Economics of China's Electricity System: Why Renewables and Electricity Storage may be a Lower Cost Way to Meet Demand Growth than Coal," ARE working paper, June 2023

74. Park, Won Young; Nikit Abhyankar; Umed Paliwal; James Hyungkwan Kim; Nina Khanna; Kenji Shiraishi; Jiang Lin; Amol A. Phadke; Yong Hyun Song; Hee Seung Moon; Eunsung Kim; Sanghyun Hong, and Seung Wan Kim, 2023, **A Clean Energy Korea by 2035, Transitioning to 80% Carbon-Free Electricity Generation**, LBNL Report

75. Park, Won Young; Nina Khanna; James Hyungkwan Kim; Kenji Shiraishi; Nikit Abhyankar; Umed Paliwal; Jiang Lin; Amol A. Phadke; Hee Seung Moon; Yong Hyun Song; Eunsung Kim; Sanghyun Hong; Yunsik Chung, and Seung Wan Kim, 2023, **Korean Power System Challenges and Opportunities, Priorities for Swift and Successful Clean Energy Deployment at Scale**, LBNL Report

76. J Lin, F Dai, N Khanna, R Zhu, and N Hultman, 2023, "Reducing Methane Emissions in the U.S. and China," CCCI Report

77. Rixin Zhu, Nina Khanna, Jessica Gordon, Kaifeng Huo, Fan Dai, and Jiang Lin, 2023, "REDUCING METHANE EMISSIONS FROM THE SOLID WASTE SECTOR: Lessons from California's Experiences," CCCI/LBNL report.

78. Shiraishi, Kenji; Won Young Park; Nikit Abhyankar; Umed Paliwal; Nina Khanna; Toru Morotomi; Jiang Lin, and Amol Phadke, "The 2035 Japan Report: Plummeting Costs of Solar, Wind, and Batteries Can Accelerate Japan's Clean and Independent Electricity Future," Feb. 2023, LBNL Report.

79. CX Xiang, XY Zheng, F Song, J Lin*, ZG Jiang, 2022, "Efficient market versus regulatory capture: a political economy assessment of power market reform in China," Department of Agricultural and Resource Economics: CUDARE Working Papers, https://escholarship.org/uc/item/2bx8q3xr

80. S Yu, J Behrendt, MY Zhu, X Cheng, W Li, B Liu, J Williams, H Zhang, R Cui, M Evans, N Hultman, H McJeon, S Smith, Q Chai, M Chen, F Guo, L Höglund Isaksson, N Khanna, Jiang Lin, Y Wu, 2022, "ROADMAP FOR U.S.-CHINA METHANE COLLABORATION: METHANE EMISSIONS, MITIGATION POTENTIAL, AND POLICIES," November, 2022, University of Maryland

81. Nikit Abhyankar, Jiang Lin*, Fritz Kahrl, Shengfei Yin, Umed Paliwal, Xu Liu, Nina Khanna, Qian Luo, Amol Phadke, David Wooley, Mike O'Boyle, Olivia Ashmoore, Robbie Orvis, Michelle Solomon, "Achieving 80% Carbon Free Electricity System in China by 2035," LBNL-EI-UCB Report, July, 2022

82. Wenjun Wang, Nina Khanna, Jiang Lin, and Xu Liu, "Black Carbon Emissions in China: 2015–2050," LBNL Report, April 2022

83. J Lin, N Khanna, X Liu, WJ Wang, J Gordon, and F Dai, 2021,"Opportunities to Tackle Short-lived Climate Pollutants and other Greenhouse Gases," California-China Climate Institute, University of California, Berkeley.

84. J Lin, N Abhyankar, G He, Xu Liu, and SF Yin, 2021 ***Enhancing grid flexibility under scenarios of a renewable-dominant power system in China***. LBNL Report.

85. Yidan Chen, Jiang Lin, David Roland-Holst, Can Wang, 2020 "Declining renewable costs, emissions trading and economic growth: China's energy system at the crossroad" UC Berkeley.

86. Khanna, Nina, Nihar Shah, Won Young Park, Chao Ding, and Jiang Lin. Designing Policies and Programs to Accelerate High Efficiency Appliance Adoption. 2020. LBNL-2001369

87. Zhou, N., H.Y. Lu, N. Khanna, X. Liu, D. Fridley, L. Price, B. Shen, W. Feng, J. Lin, and C. Ding. 2020. *China Energy Outlook: Understanding China's Energy and Emission Trends*. Lawrence Berkeley National Laboratory

88. Nihan Karali, Chao Ding, Won Young Park, Nihar Shah, and Jiang Lin, 2020, "Energy-Efficiency Improvement Potential of Multi-split Air Conditioning Systems in China," LBNL Report

89. He, Gang, Jiang Lin, Froylan Sifuentes, Xu Liu, Nikit Abhyankar, and Amol Phadke. 2020, "Rapid Cost of Decrease of Renewable Energy and Storage Offers an Opportunity to Accelerate the Decarbonization of China's Power System," LBNL Report-2001357

90. Nikit Abhyankar[#], Jiang Lin[#*], Xu Liu, Froylan Sifuentes, 2019, "Economic and environmental benefits of market-based power-system reform in China: provincial versus regional grid optimization," September, 2019, LBNL Report 2001352.

91. Fredrich Kahrl, Jiang Lin*, Xu Liu, Junfeng Hu, 2019, "Sunsetting coal power in China," September, 2019, LBNL Report-2001356.

92. Amol Phadke*, Nihar Shah*, Jiang Lin, Won Young Park, Yongsheng Zhang, Durwood Zaelke, Chao Ding and Nihan Karali, 2019, "Chinese policy leadership would cool global air conditioning impacts," July 2019, BTJRC Working Paper 005

93. Khana N, C Ding, WY Park, N Shah, and J Lin, 2019, "Market assessment of multi-split air conditioning systems in the Chinese and global market, LBNL Report, 2019.

94. J Lin, F. Karhl, JH Yuan, X Liu, and WR Zhang, 2018, "Challenges and strategies for electricity market transition in China," November 2018, BTJRC Working Paper 004.

95. J Lin, N Khana, and X Liu, 2018, "China's non-CO2 GHG emissions: future trajectories, and mitigation options and potential," BTJRC Working Paper 003.

96. J Lin, F. Karhl, JH Yuan, QX Chen, and X Liu, 2018, "Electricity market transition in China: A case study of Guangdong Province," June 2018, BTJRC Working Paper 001.

97. J Lin, X Liu, and G He, 2018, "Electricity demand and economic transition in China: A regional analysis," July 2018, BTJRC Working Paper 002.

98. J Lin, DG Fridley, HY Lou, LK Price, and N Zhou, 2018, "Near-term trends in China's coal consumption," Lawrence Berkeley National Laboratory, LBNL-2001145.

99. D Roland-Holst, F Kahrl, J Lin, and C Springer, 2017, Economics Growth, Energy, and Emissions in China, 2015-2035: Structural Transition to Sustainable Prosperity. Department of Agricultural and Resources Economics, University of California, Berkeley.

100. Jiang Lin, Fredrich Kahrl, Xu Liu, "Excess Capacity in China's Power Systems: A Regional Analysis," Lawrence Berkeley National Laboratory, LBNL-1006638.

101. Jiang Lin, 2016, Power Shift: Economic Restructuring and Changing Energy Use in China, Aspen Institute Congressional Program.

102. Jiang Lin and Angela Luh, 2015, "Power Shift: Re-assessing China's Electricity and Coal Demand Under the Economic New Normal," *Energy Foundation China Issue Brief*, the Energy Foundation.

103. He, Gang, Jiang Lin, and Alexandria Yuan, 2015, *Economic Rebalancing and Electricity Demand in China*, Berkeley: Lawrence Berkeley National Laboratory, LBNL-1003799.

104. Jiang Lin, 2014, "China can lead the global collaboration on low-carbon development," working paper for the *New Climate Economy Report*.

105. Jiang Lin, Jiangyan Wang, Fei Meng, Jasmine Tillu, and Dongquan He, 2014, "Building livable cities in China," working paper for the *New Climate Economy Report*.

106. Jiang Lin, Peter Calthorpe, He Dongquan, and Wang Jiangyan, 2012, "Sustainability at Scale: Meeting China's Urban Design Challenge," *Energy Foundation Annual Report*, 2011.

107. Jiang Lin, He Dongquan, He Ping, Hu Min, and Lu Hong, 2011, "The Race is on: China kick-starts its clean economy," Knowledge Series, ClimateWorks Foundation.

108. Fridley, David, Nina Zheng, Nan Zhou, Nathaniel T Aden, Jiang Lin, Jianhong Cheng, and Tomoyuki Sakamoto. China Refrigerator Information Label: Specification Development and Potential Impact. Trans. Nina Khanna. Lawrence Berkeley National Laboratory; China National Institute of Standardization; The Institute of Energy Economics, Japan, 2008. PDF (1.13 MB)

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