

## LYNN PRICE

Senior Advisor (retired Senior Scientist)  
Building Technology and Urban Systems Division  
Energy Technologies Area  
Lawrence Berkeley National Laboratory

### EMPLOYMENT

#### **Lawrence Berkeley National Laboratory, Berkeley, California**

1990 - present

#### **Price Associates, Berkeley, California**

1989 - 1990

#### **MHB Technical Associates, San Jose, California**

1983 - 1989

### PROFESSIONAL EXPERIENCE

- Lead author, Intergovernmental Panel on Climate Change *Second Assessment Report, Technical Paper on Technologies, Policies and Measures for Mitigating Climate Change, Special Report on Emissions Scenarios, Third Assessment Report, Fourth Assessment Report, Fifth Assessment Report*, U.S. government reviewer for *Sixth Assessment Report*
- Principal investigator, Energy Foundation China projects on industrial energy efficiency policies and programs, modeling, benchmarking, auditing, energy-efficient technologies and measures, and low-carbon urban development in China
- Principal investigator, Energy Foundation China, Rocky Mountain Institute, and Energy Research Institute project on *Reinventing Fire: China* modeling China's potential energy use and CO<sub>2</sub> emissions in 2050, used to advise the Obama Administration's intergovernmental working group in support of the 2014 U.S.-China Climate Change Announcement and the 2015 Paris Agreement
- Principal investigator, U.S. Department of Energy projects related to China's future energy use and CO<sub>2</sub> emissions and industrial sector energy efficiency policies and programs in China
- Principal investigator, U.S. Department of State projects on energy service performance contracting, boiler/steam system energy efficiency and fuel switching, and low-carbon cities, and for the Asia Pacific Partnership on cement industry energy efficiency and greenhouse gas mitigation in China
- Principal investigator, U.S. Environmental Protection Agency projects related to benchmarking, energy efficiency improvement, and use of alternative fuels for the Chinese cement industry
- Principal investigator, Hewlett Foundation and Oak Foundation projects related to future energy consumption scenarios for China
- Principal investigator, California Air Resources Board project on evaluation of efficiency activities in the industrial sector undertaken in response to greenhouse gas emission reduction targets
- Principal investigator, California Energy Commission project on development of an energy balance for the State of California and on optimization of product lifecycle greenhouse gas emissions from products produced in California

## **PROFESSIONAL POSITIONS**

Senior Advisor, International Energy Analysis Department, Energy Analysis & Environmental Impacts Division, Energy Technologies Area, Lawrence Berkeley National Laboratory, 2017-2022

Senior Scientist, International Energy Analysis Department, Energy Analysis & Environmental Impacts Division, Energy Technologies Area, Lawrence Berkeley National Laboratory – 2015 to 2017

Staff Scientist, China Energy Group and International Energy Studies Group, Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory – 2009 to 2015

Research Scientist, China Energy Group and International Energy Studies Group, Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory – 1999 to 2009

Staff Research Associate, Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory – 1996 to 1999

Technical Editor/Writer III, Center for Building Science and Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory, 1990 to 1996

Acting Division Director, Energy Analysis & Environmental Impacts Division, Energy Technologies Area, Lawrence Berkeley National Laboratory – 2016 to 2017

Department Head, International Energy Analysis Department, Energy Analysis & Environmental Impacts Division, Energy Technologies Area, Lawrence Berkeley National Laboratory – 2016 to 2017

Group Leader, China Energy Group, Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory – 2012 to 2016

Deputy Group Leader, China Energy Group, Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory – 2011 to 2012

Deputy Group Leader, International Energy Studies Group, Energy Analysis Department, Environmental Energy Technologies Division, Lawrence Berkeley National Laboratory – 1998 to 2007

Affiliated Faculty, Energy and Resources Group, University of California-Berkeley – 2010 to 2017

Guest Professor, University of Science and Technology Beijing – 2013 to 2017

Lead Author of Intergovernmental Panel on Climate Change (which won the Nobel Peace Prize 2007) - 1994 to 2014

## **AWARDS**

2020 The Berkeley Lab Prize – Lifetime Achievement Award

Recognition in 2019 for *Outstanding Research and Contributions to Applied Energy* as lead author of a newly published paper on "A road map for China to peak carbon dioxide emissions and archived a 20% share of non-fossil fuels in primary energy by 2030."

Recipient of the 2017 American Council for an Energy Efficient Economy's (ACEEE's) *2017 Champion of Energy Efficiency in Industry* award.

Recipient of the *2017 Nelson Institute Distinguished Alumni Award*, Nelson Institute of Environmental Science, University of Wisconsin-Madison

LBNL Energy Technologies Area Celebration of Excellence Award, 2016 - For exceptional contributions to Reinventing Fire and its impact on the US Government's negotiations with China on Climate Change (COP-21)

LBNL Energy Technologies Area Celebration of Excellence Award, 2016 - For role in the formation of the Berkeley-Tsinghua Joint Research Center on Energy and Climate Change

Member of China Industry Team, which was awarded the *Extraordinary Achievement and Leadership Results Award* in 2010 by ClimateWorks Foundation

Member of China Cement Kiln Project Team that was awarded the U.S. Environmental Protection Agency's *James W. Craig Pollution Prevention Leadership Award* – 2009

### **BOARDS AND SERVICE**

Board of Trustees, Natural Resources Defense Council (currently)

Advisory Board, Global Efficiency Intelligence (currently)

Advisory Board, Industrial Electrification Center (currently)

Steering Committee, China Council for an Energy-Efficient Economy (currently)

Strategic Advisory Group, Institute for Industrial Productivity (formerly)

Leadership Council, China-U.S. Energy Efficiency Alliance (formerly)

California-China Climate Cooperation Advisory Committee (formerly)

Outstanding Performance Award, Lawrence Berkeley National Laboratory – 2016, 2015, 2013, 2007, 1999, 1995

Co-Chair, 2003 American Council for an Energy-Efficient Economy's Summer Study on Energy Efficiency in Industry

Guest Editor, Special Issue on Industrial Emissions in Developing Countries, *Applied Energy*

Guest Editor, Special Issue on Resource Efficiency in Chinese Industry, *Resources, Conservation and Recycling*

Reviewer for *Nature Climate Change, Energy, The International Journal, Energy Policy, Climate Policy, Journal of Industrial Ecology, Environmental Science & Technology, ACEEE Summer Study on Energy Efficiency in Industry, ACEEE Summer Study on Energy Efficiency in Buildings*

Expert for World Resources Institute's China FAQs Network for Climate and Energy Information

Host and advisor for international guests in the International Energy Studies Group and China Energy Group at Lawrence Berkeley National Laboratory

### **EDUCATION**

#### **University of Wisconsin – Madison, Institute For Environmental Studies**

Master of Science in Land Resources, May 1982

Phi Kappa Phi Honor Society

#### **University of Wisconsin - Madison**

Bachelor of Arts in Geography, May 1980

Graduation with Distinction

## PUBLICATIONS

### *Peer-Reviewed Journal Articles*

1. Zhou, N., Price, L., Yande, D., Creyts, J., Khanna, N., Fridley, D., Lu, H., Feng, W., Liu, X., Hasanbeigi, A., Tian, Z., Yang, H., Bai, Q., Zhu, Y., Xiong, H., Zhang, J., Chrisman, K., Agenbroad, J., Ke, Y., McIntosh, R., Mullaney, D., Stranger, C., Wanless, E., Wetzel, D., Yee, C., and Franconi, E., 2019. "A roadmap for China to peak carbon dioxide emissions and achieve a 20% share of non-fossil fuels in primary energy by 2030," *Applied Energy* 239: 793-819. <https://doi.org/10.1016/j.apenergy.2019.01.154>
2. Liu, X., Shen, B., Price, L., Hasanbeigi, A., Lu, H., 2019. "A Review of International Practices for Energy Efficiency and CO<sub>2</sub> Mitigation Policies and Their Implications for China," *Renewable and Sustainable Energy Reviews* DOI: [10.1002/wene.342](https://doi.org/10.1002/wene.342).
3. Lin, J., Fridley, D., Lu, H., Price, L., Zhou, N., 2018. "Has coal use peaked in China: Near-term trends in China's coal consumption," *Energy Policy* 123: 208-214.
4. Rojas-Cardenas, J.; Hasanbeigi, A.; Sheinbaum-Pardo, C.; Price, L. 2017. "Energy Efficiency in the Mexican Iron and Steel Industry from an International Perspective," *Journal of Cleaner Production*, Volume 158: 335–348. <https://doi.org/10.1016/j.jclepro.2017.04.092>
5. Shen, B., Han, YF., Price, L., Lu, HY., Liu, MZ. 2017. "Techno-Economic Evaluation of Strategies for Addressing Energy and Environmental Challenges of Industrial Boilers in China," *Energy*, Volume 118: 526–533. <https://doi.org/10.1016/j.energy.2016.10.083>
6. Xiong, L., Shen, B., Qi, SZ., Price, L., Ye, B. 2017. "Comparative Analysis on Allowance Mechanism of China's Carbon Trading Pilots," *Applied Energy*, Volume 185: 1849–1859. <http://dx.doi.org/10.1016/j.apenergy.2016.01.064>.
7. Hasanbeigi, A., Arens, M., Rojas-Cardenas, J., Price, L., Triolo, R. 2016. "Comparison of Carbon Dioxide Emissions Intensity of Steel Industry in China, Germany, Mexico, and the United States," *Resources, Conservation and Recycling*, Volume 113; 127–139. [doi:10.1016/j.resconrec.2016.06.008](https://doi.org/10.1016/j.resconrec.2016.06.008)
8. Kong, L., Hasanbeigi, A., Price, L. 2016. "Assessment of Emerging Energy-Efficiency Technologies for the Pulp and Paper Industry: A Technical Review," *Journal of Cleaner Production*. Volume 122: 5-28. <http://dx.doi.org/10.1016/j.jclepro.2015.12.116>
9. Lu, H., L. Price, Q. Zhang. 2016. "Capturing the Invisible Resource: Analysis of Waste Heat Potential in Chinese Industry," *Applied Energy*, Volume 161: 497-511. [doi:10.1016/j.apenergy.2015.10.060](https://doi.org/10.1016/j.apenergy.2015.10.060).
10. Lewis, J., D. Fridley, L. Price, H. Lu, and J. Romankiewicz. 2015. "Understanding China's non-fossil energy targets", *Science*, November 27. Volume 350, Issue 6265: 1034-1036. DOI: 10.1126/science.aad1084.
11. de la Rue du Can, S., Price, L., Zwickle, T. 2015. "Understanding the Full Climate Change Impact of Energy Consumption and Mitigation at the End-Use Level: A Proposed Methodology for Allocating Indirect Carbon Dioxide Emissions," *Applied Energy* 159: 548-559, <http://dx.doi.org/10.1016/j.apenergy.2015.08.055>.
12. Liu, M., Shen B., Han Y., Price L., Xu M. 2015. "Cost-Effectiveness Analysis on Measures to Improve China's Coal-fired Industrial Boiler," *Energy Procedia* 75: 1549 – 1554, doi: 10.1016/j.egypro.2015.07.330.

13. Kong, L., Hasanbeigi, A., Price, L., Liu, H., 2015. "Energy Conservation and CO<sub>2</sub> Mitigation Potentials in the Chinese Pulp and Paper Industry." *Resource Conservation and Recycling*, <http://dx.doi.org/10.1016/j.resconrec.2015.05.001>.
14. Ma, D., Hasanbeigi, A., Price, L., Chen, W., Wang, L., 2014. "A Bottom-Up Approach for Quantifying the Air Emission Reductions and Co-Benefits: the Case of China's Ammonia Industry," *Clean Technology and Environmental Policy Journal*.
15. Shen, B., Dai, F., Price, L., and Lu, H., 2014. "California's Cap-and-Trade Program and Insights for China's Pilots," *Energy and Environment*, Volume 25 (3 & 4): 551-575.
16. Hasanbeigi, A., Arens, M., Price, L. 2014. "Alternative Emerging Ironmaking Technologies for Energy-efficiency and Carbon Dioxide Emissions Reduction: A Technical Review," *Renewable and Sustainable Energy Reviews*, Volume 33: 645-658.
17. Hasanbeigi, A., Jiang, Z., Price, L., 2014. "Retrospective and Prospective Analysis of the Trends of Energy Use in Chinese Iron and Steel Industry," *Journal of Cleaner Production*, Volume 74: 105-188.
18. Hasanbeigi, A. Price, L., Zhang, C., Aden, N., Li, X., and Shangguan, F., 2014. "Comparison of Iron and Steel Production Energy Use and Energy Intensity in China and the U.S.," *Journal of Cleaner Production*, Volume 65: 108-199.
19. Price, L., Zhou, N., Fridley, D., Ohshita, S., Lu, H., Zheng, N., Fino-Chen, C., 2013. "Development of a Low-Carbon Indicator System for China," *Habitat International*, Volume 37: 4-21.
20. Zhou, N., Price, L., Fridley, D., Ohshita, S., Zheng, N., Hu, M. and Hu, X., 2013. "Strategies for Low Carbon Development" (in Chinese). *Science and Management*. Volume 33: 3-25.
21. Shen, B., Wang, J., Li, M., Li, J., Price, L. and Zeng, L., 2013. "China's Approaches to Financing Sustainable Development: Policies, Practices, and Issues," *WIREs Energy Environment*. Volume 2: 178-198. doi: 10.1002/wene.66
22. Hasanbeigi, A., Price, L., Fino-Chen, C., Lu, H., Ke, J. 2013. "Retrospective and Prospective Decomposition Analysis of Chinese Manufacturing Energy Use and Policy Implications." *Energy Policy*, Volume 63: 562-574.
23. Zhou N., Price L., Ohshita S., Zheng N., and M. Hu. 2013. "A Guidebook for Low-Carbon Development at the Local Level (in Chinese)." *Science and Management* Volume 33 (5): 21 - 35.
24. Ke, J., McNeil, M., Price, L., Khanna, N., Zhou, N., 2013. "Estimation of CO<sub>2</sub> Emissions from China's Cement Production: Methodologies and Uncertainties," *Energy Policy*, Volume 57: 172-181.
25. Hasanbeigi, A., Lobscheid, A., Lu, H., Price, L., and Dai, Y. 2013. "Quantifying the Co-benefits of Energy-Efficiency Programs: A Case-study for the Cement Industry in Shandong Province, China," *Science of the Total Environment*, Volumes 458-460: 624-636
26. Ke, J., Price, L., McNeil, M., Khanna, N., and Zhou, N. 2013. "Analysis and Practices of Energy Benchmarking for Industry from the Perspective of Systems Engineering," *Energy* Volume 54 (2013) 32-44.
27. Kong, L., Price, L., Hasanbeigi, A., Liu, H., Li, J. 2013. "Potential for Reducing Paper Mill Energy Use and Carbon Dioxide Emissions through Plant-wide Energy Audits: A Case Study in China," *Applied Energy*, Volume 102: 1334-1342.

28. Hasanbeigi, A., Price, L., Lin, E. 2012. "Emerging Energy-efficiency and CO<sub>2</sub> Emission-reduction Technologies for Cement and Concrete Production: A Technical Review." *Renewable and Sustainable Energy Reviews* Volume 16 (2012) 6220–6238.
29. Ke, J., Price, L., Ohshita, S., Fridley, D., Zheng, N., Zhou, N., and Levine, M., 2012. "China's Industrial Energy Consumption Trends and Impacts of the Top-1000 Enterprises Energy-Saving Program and the Ten Key Energy-Saving Projects," *Energy Policy* Volume 45 (2012) 739-751.
30. Hasanbeigi, A. and Price, L. 2012. "A Review of Energy Use and Energy Efficiency Technologies for the Textile Industry," *Renewable and Sustainable Energy Reviews*. Volume 16:6 (August 2012): 3648-3665. <http://escholarship.org/uc/item/4531h558>
31. Shen, B., Price, L, and Lu, H., 2012. "Energy Audit Practices in China: National and Local Experiences and Issues," *Energy Policy* Volume 46 (2012): 346-358.
32. Ke, J., Zheng, N., Fridley, D., Price, L., and Zhou, N., 2012. "Potential Energy Savings and CO<sub>2</sub> Emissions Reduction of China's Cement Industry," *Energy Policy* Volume 45 (2012): 739-751.
33. Zhou, N., Ohshita, S., Price, L., and Zheng, N. 2011. "A Low Carbon Development Guide for Local Government Actions in China," *Carbon Management*. Volume 2 (4): 455-469.
34. Price, L., Levine, M.D., Price, L., Zhou, N., Fridley, D., Aden, N., Lu, H., McNeil, M., Zheng, N., Qin, Y., Yowargana, P., 2011. "Assessment of China's Energy-Saving and Emission-Reduction Accomplishments and Opportunities During the 11<sup>th</sup> Five-Year Plan," *Energy Policy* Volume 39(4): 2165-2178.
35. Hasanbeigi, A., Menke, C., and Price, L., 2010. "CO<sub>2</sub> Abatement Cost Curve for the Thailand's Cement Industry," *Journal of Cleaner Production*, Volume 18 (15): 1509-1518.
36. Hasanbeigi, A., Price, L., Lu, H., Wang, L., 2010. "Analysis of Energy-Efficiency Opportunities for the Cement Industry in Shandong Province, China: A Case-Study of Sixteen Cement Plants," *Energy* Volume 35: 3461-3473
37. Koomey, J., Akbari, H., Blumstein, C., Brown, M., Brown, R., Calwell, C., Carter, S., Cavanagh, R., Chang, A., Claridge, D., Craig, P., Diamond, R., Eto, J., Fulkerson, W., Gadgil, A., Geller, H., Goldemberg, J., Goldman, C., Goldstein, D., Greenberg, S., Hafemeister, D., Harris, J, Harvey, H., Heitz, E., Hirst, E., Hummel, H., Kammen, D., Kelly, H., Laitner, S., Levine, M., Lovins, A., Masters, G., McMahon, J.E., Meier, A., Messenger, M., Millhone, J., Mills, E., Nadel, S., Nordman, B., Price, L., Romm, J., Ross, M., Rufo, M., Sathaye, J., Schipper, L., Schneider, S.H., Sweeney, J.L., Verdict, M., Vorsatz, D., Wang, D., Weinberg, C., Wilk, R., Wilson, J., and Worrell, E., 2010. "Defining a Standard Metric for Electricity Savings," *Environmental Research Letters*. Volume 5 (1) January-March 2010.
38. Zhou, N., Levine, M.D., and Price, L., 2010. "Overview of Current Energy-Efficiency Policies in China." *Energy Policy*, Volume 38 (11).
39. Price, L., Xuejun Wang, Jiang Yun, 2010. "The Challenge of Reducing Energy Consumption of the Top-1000 Largest Industrial Enterprises in China", *Energy Policy*, Volume 38 (11).
40. Worrell, E., Bernstein, L., Roy, J., Price, L., and Harnisch, J., 2009. "Industrial Energy Efficiency and Climate Change Mitigation," *Energy Efficiency*. Volume 2 (2): 109.
41. de la Rue du Can, S. and Price, L., 2008. "Sectoral Trends in Global Energy Use and Greenhouse Gas Emissions," *Energy Policy*, Volume 36(4): 1386-1403.

42. Worrell, E. and Price, L., 2006. "An Integrated Benchmarking and Energy Savings Tool for the Iron and Steel Industry," *International Journal of Green Energy* Volume 3 (2): 117-127.
43. Sathaye, J., Murtishaw, S., Price, L., Lefranc, M., Roy, J., Winkler, H., and Spalding-Fecher, R., 2004. "Multiproject Baselines for Evaluation of Electric Power Projects," *Energy Policy*, Volume 32(11): 1303-1317.
44. Price, L. and Levine, M.D., 2002. "Sustainable Production and Consumption of Energy: Developments Since the 1992 Rio Summit," *Environmental Law Reporter* 32 (August).
45. Price, L., Sinton, J., Worrell, E., Phylipsen, D., Hu, X., and Li, J., 2002. "Energy Use and Carbon Dioxide Emissions from Steel Production in China," *Energy, The International Journal* Volume 27(2002): 429-446.
46. Worrell, E., Martin, N., Price, L., Ruth, M., Elliott, N., Shipley, A. and Thorne, J., 2002. "Emerging Energy Efficient Technologies for Industry" *Energy Engineering Journal* Volume 99 (2):36-55.
47. Roy, J., Das, S., Sathaye, J., and Price, L., 2002. "Estimating Baselines for CDM: Case of Eastern Regional Power Grid in India," *Environmental Economics and Policy Studies* Volume 5: 121-134.
48. Ozawa, L., Sheinbaum, C., Martin, N., Worrell, E., and Price, L., 2002. "Energy Use and CO<sub>2</sub> Emissions in Mexico's Iron and Steel Industry," *Energy, The International Journal* Volume 27, 2002: 225-239.
49. Worrell, E., Price, L., Martin, N., Hendricks, C., and Ozawa Meida, L., 2001. "Carbon Dioxide Emissions from the Global Cement Industry," *Annual Review of Energy and Environment* Volume 26: 303-29.
50. Worrell, E., Price, L., and Ruth, M., 2001. "Policy Modeling for Energy Efficiency Improvement in US Industry," *Annual Review of Energy and Environment* Volume 26: 117-43.
51. Winkler, H., Spalding-Fecher, R., Sathaye, J., and Price, L., 2001. "Multi-Project Baselines for Potential Clean Development Mechanism Projects in the Electricity Sector in South Africa," *Journal of Energy in Southern Africa* Volume 12 (4): 449-457.
52. Worrell, E. and Price, L., 2001. "Policy Scenarios for Energy Efficiency Improvement in Industry," *Energy Policy* Volume 29 (2001): 1223-1241.
53. Worrell, E., Martin, N., and Price, L., 2001. "Energy Efficiency and Carbon Dioxide Emissions Reduction Opportunities in the U.S. Iron and Steel Industry," *Energy, The International Journal* Volume 26: 513-536.
54. Worrell, E., Martin, N., and Price, L., 2000. "Potentials for Energy Efficiency Improvement in the U.S. Cement Industry," *Energy, The International Journal* Volume 25: 1189-1214.
55. Worrell, E., Martin, N., Price, L., 1999, "Energy Efficiency Opportunities in Electric Arc Steelmaking," *Iron and Steelmaker*, January.
56. Price, L., Michaelis, L., Worrell, E., and Khushch, M., 1998. "Sectoral Trends and Driving Forces of Global Energy Use and Greenhouse Gas Emissions," *Mitigation and Adaptation Strategies for Global Change*, Volume 3:263-319.
57. Koomey, J.G., Martin, N.C., Brown, M., Price, L.K., and Levine, M.D., 1998. "Costs of Reducing Carbon Emissions: U.S. Building Sector Scenarios," *Energy Policy*, Volume 26 (5).

58. Worrell, E., Price, L., Martin, N., Farla, J., Schaeffer, R., 1997. "Energy Intensity in the Iron and Steel Industry: A Comparison of Physical and Economic Indicators," *Energy Policy*, Volume 25 (7-9).
59. Schipper, L., Scholl, L., and Price, L., 1997. "Energy Use and Carbon Emissions from Freight in 10 Industrialized Countries: An Analysis of Trends from 1973 to 1992," *Transportation Research* Volume 2(1): 57-76, 1997.
60. Levine, M.D., Price, L., and Martin, N., 1996. "Mitigation Options for Carbon Dioxide Emissions from Buildings: A Global Analysis," *Energy Policy* Volume 24(10): 937-949.
61. Levine, M.D., Geller, H., Koomey, J., Nadel, S., and Price, L., 1995. "Electricity End-Use Efficiency: Experience with Technologies, Markets, and Policies Throughout the World," *Energy: The International Journal* Volume 20(1): 37-61.
62. Schipper, L. and Price, L., 1994. "Efficient Energy Use and Well Being: The Swedish Example After 20 Years," *Natural Resources Forum* Volume 18(2): 125-142.
63. Schipper, L., Figueroa, M.J., Price, L., and Espey, M., 1993. "Mind the Gap: The Vicious Circle of Measuring Automobile Fuel Use," *Energy Policy*, Volume 21(12): 1173-1190.
64. Schipper, L., Howarth, R., Andersson, B., and Price, L., 1993. "Energy Use in Denmark: An International Perspective," *Natural Resources Forum* Volume 17(2): 83-103.
65. Rosenfeld, A., Atkinson, C., Koomey, J., Meier, A., Mowris, R., and Price, L., 1993. "Conserved Energy Supply Curves," *Contemporary Policy Issues* Volume 11(1): 45-98.

#### *Peer-Reviewed Reports and Chapters/Articles in Books*

1. Zhou, N., Khanna, N., Zhang, J., Lu, H., Price, L., Fridley, D., Ke, J., Feng, W., Shen, B., Lin, J., Levine, M., 2022. *China Energy Outlook 2022*. Berkeley, CA: Lawrence Berkeley National Laboratory LBNL-2001444. <https://eta-publications.lbl.gov/publications/china-energy-outlook-2022>
2. Dai, F., Kahrl, F., Gordon, J., Perron, J., Zhu, Y., Loken, R., Mahone, A., Khanna, N., Zhou, N., Price, L., 2021. *Getting to Net Zero – U.S.-China Framework and Milestones for Carbon Neutrality*. Berkeley, CA: California-China Climate Institute. <https://ccci.berkeley.edu/sites/default/files/GettingToZero-FINAL.pdf>
3. Khanna, N., Zhou, N., Price, L., 2021. *Getting to Net Zero – China Report: Pathways Toward Carbon Neutrality: A Review of Recent Studies on Mid-Century Emissions Transition Scenarios for China*. Berkeley, CA: California-China Climate Institute. <https://ccci.berkeley.edu/sites/default/files/GTZChina-July52021-FINAL.pdf>
4. Weisenmiller, R., Cho, H.J., Perron, J., Dai, F., Lu, H., Khanna, N., Zhou, N., Price, L., 2021. *U.S.-China Energy Efficiency and Air Quality Strategies: A Review of Best Practices in Buildings, Transportation, and Industry*. Berkeley, CA: California-China Climate Institute. [https://ccci.berkeley.edu/sites/default/files/Energy%20Efficiency%20and%20Air%20Quality%20Report\\_Final%206-29-21.pdf](https://ccci.berkeley.edu/sites/default/files/Energy%20Efficiency%20and%20Air%20Quality%20Report_Final%206-29-21.pdf)
5. Zhou, N., Lu, H., Khanna, N., Liu, X., Fridley, D., Price, L., Shen, B., Feng, W., Lin, J., Szum, C., Ding, C., 2020. *China Energy Outlook: Understanding China's Energy and Emissions Trends*. Berkeley, CA: Lawrence Berkeley National Laboratory.
6. Fridley, D., Lu, H., Lin, J., Price, L., Zhou, N. 2018. *Near-Term Trends in China's Coal Consumption*. Berkeley: Lawrence Berkeley National Laboratory.

7. Price, L., Zhou N., Fridley D., Ohshita S., Khanna, N., Lu, H., Hong, L., He, G., Romankiewicz, J., 2015. *BEST Cities: Benchmarking and Energy Savings Tool for Low Carbon Cities - 72 Policy Recommendations from the Tool*. Berkeley, CA: Lawrence Berkeley National Laboratory, available in English and Chinese.
8. Ohshita, S.B., L. Price, N. Zhou, N. Khanna, D. Fridley, and X. Liu. 2015. *The Role of Chinese Cities in Greenhouse Gas Emission Reduction*. Briefing prepared by the China Energy Group, Lawrence Berkeley National Laboratory, for Stockholm Environment Institute and Bloomberg Philanthropies. September.  
[http://www.bloomberg.org/content/uploads/sites/2/2015/09/LBNL\\_SEI\\_China\\_Final.pdf](http://www.bloomberg.org/content/uploads/sites/2/2015/09/LBNL_SEI_China_Final.pdf)
9. Ohshita, S.B., N. Zhou, L. Price, D. Fridley, N. Zheng Kanna, LX. Hong, HY. Lu, C. Fino-Chen, G. He. 2015. "Low Carbon Development for Cities: Methods and Measures." Chapter in Vol. 6 Sustainability of Energy Systems in the *Handbook of Clean Energy Systems*. JY Yan, ed. Wiley: London. <http://onlinelibrary.wiley.com/book/10.1002/9781118991978>
10. Hasanbeigi, Ali; Arens, Marlene; Cardenas, Jose C.R.; Price, Lynn; Triolo, Ryan. 2015. *Development of a Framework for Comparison of Energy-Related CO<sub>2</sub> Emission Intensity of the Iron and Steel Industry in China, Germany, Mexico and the U.S.* Berkeley, CA: Lawrence Berkeley National Laboratory. LBNL-1004069.
11. Shen B., Price L, Lu, HY, Liu X. 2015. *Curbing Air Pollution and Greenhouse Gas Emissions from Industrial Boilers in China: An Analysis and Implementation Roadmap for Improving Energy Efficiency and Fuel Switching with Case Studies in Ningbo and Xi'an*, LBNL-1003860, Berkeley, CA: Lawrence Berkeley National Laboratory.
12. Shen B., Price L., Liu, X., Meng, L., Shi, W., Evans, M., Roshchanka, V., and Yu, S., in collaboration with the ESCO Committee of the China Energy Conservation Association (EMCA), 2015. *Expanding Energy Performance Contracting in China: Policy Solutions and Market Mechanisms*, LBNL-1003854, Berkeley, CA: Lawrence Berkeley National Laboratory and Richland, WA: Pacific Northwest National Laboratory.
13. Evans, M., Yu, S., Roshchanka, V., Haverson, M., Shen B., Price, L., Liu, MZ, Meng, L., Miao, P., Dai, F., in collaboration with the ESCO Committee of the China Energy Conservation Association (EMCA), 2015. *White Paper: Unleashing Energy Efficiency Retrofits Through Energy Performance Contracts in China and the United States*, LBNL-190662, Richland, WA: Pacific Northwest National Laboratory and Berkeley, CA: Lawrence Berkeley National Laboratory.
14. Shen B., Lu, HY, Price L. 2015. *U.S. Experiences in Tackling Energy and Environmental Challenges of Boiler Systems*, LBNL-1004067, Berkeley, CA: Lawrence Berkeley National Laboratory.
15. Fishedick, M., Roy, J., Abdel-Aziz, A., Acquaye, A., Allwood, J., Ceron, J-P., Geng, Y., Kheshgi, H., Lanza, A., Perczyk, D., Price, L., Santalla, E., Sheinbaum, C., Tanaka, K., Baiocchi, G., Calvin, K., Daenzer, K., Dasgupta, S., Delgado, G., El Haggag, S., Fleiter, T., Hasanbeigi, A., Höller, S., Jewell, J., Mulugetta, Y., Neelis, M., de la Rue du Can, S., Themelis, N. Venkatagiri, K.S., Yetano Roche, M. 2014. "Industry," Chapter 10 in: *Climate Change 2014 Mitigation of Climate Change. Working Group III Contribution to the IPCC 5th Assessment Report*. Intergovernmental Panel on Climate Change.
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