

## LYNN PRICE

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### 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

- Principal investigator, China Sustainable Energy Program project on industrial energy efficiency voluntary agreements, benchmarking, and tax and fiscal policies in China
- Principal investigator, U.S. Environmental Protection Agency project related to benchmarking, energy efficiency improvement, and use of alternative fuels for the Chinese cement industry
- 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
- 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, and Fourth Assessment Report
- Scientist, U.S. Environmental Protection Agency projects related to development of multi-project (standardized) baselines for evaluation of greenhouse gas mitigation projects in the electricity and industrial sectors, benchmarking of energy-intensive industrial sectors, and analysis of the energy-efficiency and greenhouse gas mitigation potential of selected industrial sectors
- Scientist, U.S. Department of Energy project related to the assessment of international experience in industrial sector energy efficiency policies and programs

## PROFESSIONAL SERVICE AND AWARDS

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

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

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

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

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

Reviewer for *Energy*, *The International Journal*, *Energy Policy*, *Journal of Industrial Ecology*, *Environmental Science & Technology*, and the ACEEE 2003 Summer Study on Energy Efficiency in Industry

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

Price, L. and McKane, A., in press. *Industrial Energy Efficiency and Climate Change Mitigation: Policies and Measures to Realize the Potential in the Industrial Sector*, Prepared in support of the UN-Energy Side Event on Energy Efficiency in the Post-2012 Framework: Key Issues and Challenges, December 10, 2008, United Nations Climate Change Conference COP-14/CMP4, Poznań, Poland.

Lu, H., Masanet, E., and Price, L., 2009. "Evaluation of Life-Cycle Assessment Studies of Chinese Cement Production: Challenges and Opportunities," *Proceedings of the American Council for an Energy-Efficient Economy's 2009 Summer Study on Energy Efficiency In Industry*, July 26-29.

Price, L., Xuejun Wang, Jiang Yun, 2009. "The Challenge of Reducing Energy Consumption of the Top-1000 Largest Industrial Enterprises in China," *Proceedings of the European Council for an Energy-Efficient Economy's 2009 Summer Study*, June 1-6.

Price, L., Xuejun Wang, Jiang Yun, 2009. "The Challenge of Reducing Energy Consumption of the Top-1000 Largest Industrial Enterprises in China", Invited for a Special Issue of *Energy Policy*.

Zhou, N., Levine, M.D., and Price, L., in press. "Overview of Current Energy-Efficiency Policies in China. Invited for a Special Issue of *Energy Policy*.

Worrell, E., Bernstein, L., Roy, J., Price, L., and Harnisch, J., 2009. "Industrial Energy Efficiency and Climate Change Mitigation," *Energy Efficiency*. Volume 2, Issue 2 (2009): 109.

de la Rue du Can, S. and Price, L., 2008. "Sectoral Trends in Global Energy Use and Greenhouse Gas Emissions," *Energy Policy*, 36(4): 1386-1403.

Price, L., 2008. *Technologies and Policies to Improve Energy Efficiency in Industry*. Proceedings of the American Physical Society's Forum on Physics and Society, Physics of Sustainable Energy: Using Energy Efficiently and Producing It Renewably, March 1, 2008, Berkeley, California (LBNL-710E).

Price, L., Wang, X., Jiang, Y., 2008. *China's Top-1000 Energy-Consuming Enterprise Program: Reducing Energy Consumption of the 1000 Largest Industrial Enterprises in China*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-519E).

Price, L., Galitsky, C., Kramer, K.J., and McKane, A., 2008. *International Experience with Key Program Elements of Industrial Energy Efficiency and Greenhouse Gas Emission Reduction Target-Setting Programs*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-63807).

Worrell, E., Galitsky, C., and Price, L., 2008. *Energy Efficiency Opportunities for the Cement Industry*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-72E).

McKane, A., Price, L., and de la Rue du Can, S., 2007. *Policies for Promoting Industrial Energy Efficiency in Developing Countries and Transition Economies*. Vienna: United Nations Industrial Development Organization (LBNL- 63134).

Bernstein, L., Roy, J., Delhotal, K.C., Harnish, J., Matsuhashi, R., Price, L., Tanaka, K., Worrell, E., Yamba, F., Fenqi, Z., de la Rue du Can, S., Gielen, D., Joosen, S., Konar, M., Matysek, A., Miner, R., Okazaki, T., Sanders, J., Sheinbaum Parado, C., 2007. "Industry" Chapter in the Intergovernmental Panel on Climate Change's *Fourth Assessment Report*, Working Group III. Cambridge: Cambridge University Press.

Price, L. and Wang, X., 2007. "Constraining Energy Consumption of China's Largest Industrial Enterprises Through the Top-1000 Energy-Consuming Enterprise Program," *Proceedings of the 2007 ACEEE Summer Study on Energy Efficiency in Industry*. Washington, DC: American Council for An Energy-Efficient Economy (LBNL-62874).

Worrell, E., Price, L., Neelis, M. Galitsky, C., and Zhou, N., 2007. *World Best Practice Energy Intensity Values for Selected Industrial Sectors*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-62806).

Zhou, N., McNeil, M., Fridley, D., Lin, J., Price, L., de la Rue du Can, S., Sathaye, J., Levine, M., 2007. *Energy Use in China: Sectoral Trends and Future Outlook*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-61904).

Galitsky, C. and Price, L., 2007. "Opportunities for Improving Energy Efficiency, Reducing Pollution and Increasing Economic Output in Chinese Cement Kilns," *Proceedings of the 2007 ACEEE Summer Study on Energy Efficiency in Industry*. Washington, DC: American Council for An Energy-Efficient Economy.

Worrell, E. and Price, L., 2006. "An Integrated Benchmarking and Energy Savings Tool for the Iron and Steel Industry," *International Journal of Green Energy* 3 (2):117-127 (LBNL-54877).

Price, L., Galitsky, C., and Worrell, E., 2006. "Industry," in *Future Electricity Technologies and Systems*. Cambridge, UK: Cambridge University Press (LBNL-61241).

Sathaye, J.A., Price, L., Kumar, S. and de la Rue du Can, S., 2006. *Partnerships for Clean Development and Climate: Business and Technology Cooperation Benefits*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-61472).

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Price, L. and Galitsky, C., 2006. *Opportunities for Improving Energy and Environmental Performance of China's Cement Kilns*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-60638).

Sathaye, J.A., de la Rue du Can, S., Kumar, S., Iyer, M., Galitsky, C., Phadke, A., McNeill, M., Price, L., Bharvirkar, R., and Padmanabhan, S., 2006. *Implementing End-use Efficiency Improvements in India: Drawing from Experience in the US and Other Countries*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-60035).

Price, L., Galitsky, C., Sinton, J., Worrell, E., Graus, W., 2005. *Tax and Fiscal Policies for Promotion of Industrial Energy Efficiency: A Survey of International Experience*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-58128).

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Masanet, E., Price, L., de la Rue du Can, S., Brown, R., Worrell, E., 2005. *Optimization of Product Life Cycles to Reduce Greenhouse Gas Emissions in California*. Sacramento, CA: California Energy Commission (500-2005-110-F).

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Coito, F., Worrell, E., Price, L., Masanet, E., Friedmann, R., and Rufo, M., 2005. "California Industrial Energy Efficiency Potential," *Proceedings of the 2005 ACEEE Summer Study on Energy Efficiency in Industry*. Washington, DC: American Council for An Energy-Efficient Economy.

Galitsky, C., Price, L., and Worrell, E., 2004. *Energy Efficiency Programs and Policies in the Industrial Sector in Industrialized Countries*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-54068).

Price, L., and Bartholomew, E., 2004. *Assessment of State and Local Greenhouse Gas Emissions Reductions Related to Programs Funded by the State and Local Capacity Building Branch, Global Programs Division, Office of Air and Radiation, U.S. Environmental Protection Agency*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-54712).

Price, L., Bartholomew, E., and Mulholland, D., 2004. "Taking Credit for GHG Emissions Reduction Activities of the EPA's State and Local Capacity Building Branch," *Proceedings of the 2004 ACEEE Summer Study on Energy Efficiency in Buildings*. Washington, DC: American Council for an Energy-Efficient Economy (LBNL-55920).

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Price, L., Murtishaw, S., Worrell, E., 2003. *Evaluation of Metrics and Baselines for Tracking Greenhouse Gas Emissions Trends: Recommendations for the California Climate Action Registry*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-53027).

Price, L. Jiang, Y., Worrell, E., Du, W., Sinton, J.E, 2003. *Development of an Energy Conservation Voluntary Agreement Pilot Project in the Steel Sector in Shandong Province: Report to the State Economic and Trade Commission, People's Republic of China*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-51608).

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Price, L., Worrell, E., and Sinton, J., 2003. "Voluntary Agreements in the Industrial Sector in China," *Proceedings of the Earth Technologies Forum*, April 22-24, 2003, Washington DC (LBNL-52714).

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Ozawa, L., Sheinbaum, C., Martin, N., Worrell, E., and Price, L., 2002. "Energy Use and CO2 Emissions in Mexico's Iron and Steel Industry," *Energy, The International Journal* 27, 2002: 225-239 (LBNL-49133).

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Price, L., Marnay, C., Sathaye, J., Murtishaw, S., Fisher, D., Phadke, A., and Franco, G., 2002. "The California Climate Action Registry: Development of Methodologies for Calculating Greenhouse Gas Emissions from Electricity Generation," *ACEEE Summer Study on Energy Efficiency in Buildings*. Washington, DC: American Council for an Energy-Efficient Economy.

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Price, L., Phylipsen, D., and Worrell, E., 2001. *Energy Use and Carbon Dioxide Emissions in the Steel Sector in Key Developing Countries*. Berkeley, CA: Lawrence Berkeley National Laboratory (LBNL-46987).

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Markandya, A., Metz, B., Moomaw, W., Moreira, J.R., Morita, Nakicenovic, N., Price, L., Richels, R., Robinson, J., Rogner, H.H., Sathaye, J., Sedjo, R., Shukla, P., Srivastava, L., Swart, R., Toth, F., Weyant, J., 2001. "Summary for Policymakers" of *Climate Change 2001: Mitigation*. Intergovernmental Panel on Climate Change, United Nations and World Meteorological Organization, Geneva. Working Group 3.

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Price, L., Worrell, E., Sinton, J., and Jiang, Y., 2001. "Industrial Energy Efficiency Policy in China," *Proceedings of the ACEEE Summer Study on Energy Efficiency in Industry*. Washington, DC: American Council for an Energy-Efficient Economy (LBNL-50452).

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