

# Gregory F. Nemet

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## ACADEMIC EMPLOYMENT AND EDUCATION

**University of Wisconsin, Madison**

Director (interim), School of Public Affairs 2024  
Vilas Distinguished Achievement Professor 2024–present  
Professor 2018–present  
Associate Professor 2013–2018  
Assistant Professor 2007–2013

**German Institute for Economic Research (DIW)**

Research Fellow 2016–2019

**Potsdam Institute for Climate Change (PIK)**

Visiting Fellow 2015–16

**Harvard Kennedy School**

Visiting Scholar 2011

**University of California, Berkeley**

Ph.D., Energy and Resources 2007

M.A., Energy and Resources 2004

**Dartmouth College**

A.B., Geography with Economics 1995

## RESEARCH INTERESTS

Energy policy, climate policy, science & technology policy, innovation, low-carbon energy systems, carbon removal, solar geoengineering, learning by doing, knowledge spillovers.

## BOOKS

**Nemet, G. F.** (2019) “*How Solar Energy Became Cheap: A Model for Low-Carbon Innovation.*” Routledge. <http://howsolargotcheap.com>

· Funded by *Andrew Carnegie Fellowship* 2017.

· Awarded *APPAM World Citizen Prize in Environmental Performance* 2019.

· 2nd edition (2025), Chinese ed. (2025), Korean ed. (2025), Japanese ed. (2025).

**IPCC** (2022) “*Climate Change 2022: Mitigation of Climate Change.*” Contribution of Working Group III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, *Lead Author*.

## PEER REVIEWED JOURNAL ARTICLES

1. Niamir, L., Verdolini, E., **Nemet, G.**, (2024). “Social innovation enablers to unlock a low energy demand future.” *Environmental Research Letters*.
2. **Nemet, G.**, Greene, J., Müller-Hansen, F., Minx, J.C., (2023). “Dataset on the adoption of historical technologies informs the scale-up of emerging carbon dioxide removal measures.” *Nature Communications, Earth Environment* 4, 1–10. <https://doi.org/10.1038/s43247-023-01056-1>
3. **Nemet, G.F.**, Gidden, M.J., Greene, J., Roberts, C., Lamb, W.F., Minx, J.C., Smith, S.M., Geden, O., Riahi, K., (2023). “Near-term deployment of novel carbon removal to facilitate longer-term deployment.” *Joule*. <https://doi.org/10.1016/j.joule.2023.11.001>
4. Angliviè de La Beaumelle, N., Blok, K., de Chalendar, J.A., Clarke, L., Hahmann, A.N., Huster, J., **Nemet, G.F.**, Suri, D., Wild, T.B., Azevedo, I.M.L., (2023). “The Global Technical, Economic, and Feasible Potential of Renewable Electricity.” *Annual Review of Environment and Resources* 48, 419–449. <https://doi.org/10.1146/annurev-environ-112321-091140>

5. Creutzig, F., Hilaire, J., **Nemet, G.**, Müller-Hansen, F., Minx, J.C., (2023) “Technological innovation enables low cost climate change mitigation.” *Energy Research & Social Science* 105, 103276. <https://doi.org/10.1016/j.erss.2023.103276>.
6. Bustamante, M., et al., (2023). “Ten New Insights in Climate Science 2023/2024.” *Global Sustainability* 1–58. <https://doi.org/10.1017/sus.2023.25>.
7. Roberts, C., Greene, J., **Nemet, G.**, (2023) “Key enablers for carbon dioxide removal through the application of biochar to agricultural soils: Evidence from three historical analogues.” *Technological Forecasting and Social Change* 195, 122704. <https://doi.org/10.1016/j.techfore.2023.122704>.
8. Breyer, C., Keiner, D., Abbott, B.W., Bamber, J.L., Creutzig, F., Gerhards, C., Mühlbauer, A., **Nemet, G.F.**, Terli, Ö., (2023). “Proposing a 1.0°C climate target for a safer future.” *PLOS Climate* 2, e0000234. <https://doi.org/10.1371/journal.pclm.0000234>
9. Montrone, L., Steckel, J.C., **Nemet, G.**, (2023) “Investment in new coal-fired power plants after the COVID-19 pandemic: experts expect 170–270 GW of new coal.” *Environ. Res. Lett.* 18, 054013. <https://doi.org/10.1088/1748-9326/acdf0>
10. Dong, C., **Nemet, G.**, Gao, X., Barbose, G., Sigrin, B., O’Shaughnessy, E., (2023). “Machine learning reduces soft costs for residential solar photovoltaics.” *Sci Rep* 13, 7213. <https://doi.org/10.1038/s41598-023-33014-4>.
11. **Nemet, G.F.** and J. Greene (2022) “Innovation in low-energy demand and its implications for policy.” *Oxford Open Energy* 1, oiad003.
12. Roberts, C., **Nemet, G.**, (2022). “Systematic Historical Analogue Research for Decision-making (SHARD): Introducing a new methodology for using historical case studies to inform low-carbon transitions.” *Energy Research & Social Science* 93, 102768. <https://doi.org/10.1016/j.erss.2022.102768>.
13. Neij, L. and **G.F. Nemet** (2022) “Accelerating the low-carbon transition will require policy to enhance local learning.” *Energy Policy* 167, 113043.
14. Odenweller, A., Ueckerdt, F., **Nemet, G.F.**, Jensterle, M., Luderer, G., 2022. “Probabilistic feasibility space of scaling up green hydrogen supply.” *Nature Energy* 1–12.
15. Ohlendorf, N., Flachsland, C., **Nemet, G.F.**, Steckel, J.C., (2022). “Carbon price floors and low-carbon investment: A survey of German firms.” *Energy Policy* 169, 113187.
16. Steckel, J. and M. Jakob (2022) “To end coal, adapt to regional realities.” *Nature* 607, 29–31. (co-signatory).
17. Gao, X., V. Rai, **G.F. Nemet** (2022) The roles of learning mechanisms in services: Evidence from US residential solar installations. *Energy Policy* 167, 113003.
18. Steg, L., Veldstra, J., de Kleijne, K., Kılıç, Ş., Lucena, A.F.P., Nilsson, L.J., Sugiyama, M., Smith, P., Tavoni, M., de Coninck, H., van Diemen, R., Renforth, P., Mirasgedis, S., **Nemet, G.**, Görsch, R., Muri, H., Bertoldi, P., Cabeza, L.F., Mata, É., Novikova, A., Caldas, L.R., Chàfer, M., Khosla, R., Vérez, D., 2022. A method to identify barriers to and enablers of implementing climate change mitigation options. *One Earth* 5, 1216–1227. <https://doi.org/10.1016/j.oneear.2022.10.007>
19. **Nemet, G.F.** (2021) Improving the crystal ball. *Nat. Energy* 69, 6(9), 860–861.
20. Wang, N., K. Akimoto, and **G.F. Nemet** (2021) What went wrong? Learning from three decades of carbon capture, utilization and sequestration (CCUS) pilot and demonstration projects. *Energy Policy*, 158, 112546.

21. Lewis, J. I., and **G. F. Nemet** (2021) Assessing learning in low carbon technologies: Toward a more comprehensive approach. *Wiley Interdiscip. Rev. Clim. Chang.*, 12(5), e730, doi:10.1002/WCC.730.
22. Diluiso, F. et al., (2021) Coal transitions—part 1: a systematic map and review of case study learnings from regional, national, and local coal phase-out experiences. *Environ. Res. Lett.*, 16(11), 113003.
23. Ahlstrom, M. et al., (2021) Hybrid Resources: Challenges, Implications, Opportunities, and Innovation. *IEEE Power Energy Mag.*, 19(6), 37-44
24. Giannousakis, A., J. Hilaire, **G. F. Nemet**, G. Luderer, R. C. Pietzcker, R. Rodrigues, L. Baumstark, and E. Kriegler, (2021) “How uncertainty in technology costs and carbon dioxide removal availability affect climate mitigation pathways.” *Energy*, 119253.
25. Scott, M., R. Sander, **G. Nemet**, and J. Patz, (2021): “Improving Human Health in China Through Alternative Energy.” *Front. Public Heal.*, 9, 613517.
26. Dong, C., Y. Qi and **G. F. Nemet** (2021) “A government approach to address coal overcapacity in China.” *Journal of Cleaner Production* 278: 123417.
27. Lu, J. and **G. F. Nemet** (2020). “Evidence map: topics, trends, and policy in the Energy Transitions literature.” *Environ. Res. Lett.*, 15(12), 123003, doi:10.1088/1748-9326/abc195.
28. **Nemet, G. F.**, J. Lu, V. Rai and R. Rao (2020). “Knowledge spillovers between PV installers can reduce the cost of installing solar PV.” *Energy Policy* 144: 111600.
29. Zielke, M., A. Brooks and **G. F. Nemet** (2020). “The Impacts of Electric Vehicle Growth on Wholesale Electricity Prices in Wisconsin.” *World Electric Vehicle Journal* 11(2), 32.
30. Hillaire, J., J. C. Minx, M. Callaghan, J. Edmonds, G. Luderer, **G. F. Nemet**, J. Rogelj and M. d. M. Zamora (2019). “Negative emissions and international climate goals - Learning from and about mitigation scenarios.” *Climatic Change* 157: 189–219.
31. O’Shaughnessy, E., **G. F. Nemet**, J. Pless and R. Margolis (2019). “Addressing the soft cost challenge in U.S. small-scale solar PV system pricing.” *Energy Policy* 134: 110956.
32. **Nemet, G. F.**, V. Zipperer and M. Kraus (2018). “The valley of death, the technology pork barrel, and public support for large demonstration projects.” *Energy Policy* 119: 154-167.
33. Minx, J. C., W. F. Lamb, M. W. Callaghan, S. Fuss, J. Hilaire, F. Creutzig, T. Amann, T. Beringer, W. d. O. Garcia, J. Hartmann, T. Khanna, D. Lenzi, G. Luderer, **G. F. Nemet**, J. Rogelj, P. Smith, J. L. V. Vicente, J. Wilcox and M. d. M. Z. Dominguez (2018). “Negative emissions: Part 1—research landscape and synthesis.” *Environmental Research Letters* 13(6): 063001.
34. Fuss, S., W. F. Lamb, M. W. Callaghan, J. Hilaire, F. Creutzig, T. Amann, T. Beringer, W. d. O. Garcia, J. Hartmann, T. Khanna, G. Luderer, **G. F. Nemet**, J. Rogelj, P. Smith, J. L. V. Vicente, J. Wilcox, M. d. M. Z. Dominguez and J. C. Minx (2018). “Negative emissions—Part 2: Costs, potentials and side effects.” *Environmental Research Letters* 13(6): 063002.
35. **Nemet, G. F.**, M. W. Callaghan, F. Creutzig, S. Fuss, J. Hartmann, J. Hilaire, W. F. Lamb, J. C. Minx, S. Rogers and P. Smith (2018). “Negative emissions—Part 3: Innovation and upscaling.” *Environmental Research Letters* 13(6): 063003.
36. O’Shaughnessy, E., **G. F. Nemet** and N. Darghouth (2018). “The geography of solar energy in the United States: Market definition, industry structure, and choice in solar PV adoption.” *Energy Research & Social Science* 38: 1-8.
37. **Nemet, G. F.** LD. Anadon, and E. Verdolini (2017) “Quantifying the effects of expert selection and elicitation design on experts’ confidence in their judgments about future energy technologies.” *Risk Analysis* 37(2): 315-330.

38. **Nemet, G. F.**, M. Jakob, J. C. Steckel and O. Edenhofer (2017). “Addressing policy credibility problems for low-carbon investment.” *Global Environmental Change* 42: 47-57.
39. **Nemet, G. F.**, E. O’Shaughnessy, R. Wiser, N. R. Darghouth, G. Barbose, K. Gillingham and V. Rai (2017). “What factors affect the prices of low-priced U.S. solar PV systems?” *Renewable Energy* 114: 1333-1339.
40. Creutzig, F., P. Agoston, J. C. Goldschmidt, G. Luderer, **G. Nemet** and R. C. Pietzcker (2017). “The underestimated potential of solar energy to mitigate climate change.” *Nature Energy* 2: nenergy2017140.
41. **Nemet, G. F.** E. O’Shaughnessy, R. Wiser, N. Darghouth, G. Barbose, K. Gillingham and V. Rai (2017). “Characteristics of low-priced solar PV systems in the U.S.” *Applied Energy* 187: 501-513.
42. Grubler, A., C. Wilson and **G. Nemet** (2016). “Apples, oranges, and consistent comparisons of the temporal dynamics of energy transitions.” *Energy Research & Social Science* 22: 18-25.
43. **Nemet, G. F.**, A. Grubler, and D.M.Kammen (2016) “Countercyclical energy and climate policy for the U.S.” *Wiley Interdisciplinary Reviews: Climate Change* 7(1): 5–12.
44. Gillingham, K., H. Deng, R. H. Wiser, N. Darghouth, **G.F. Nemet**, G. L. Barbose, V. Rai and C. Dong (2016). “Deconstructing Solar Photovoltaic Pricing: The Role of Market Structure, Technology, and Policy.” *The Energy Journal* 37(3): 231–250.
45. **Nemet, G.F.**, E. Baker, B.Barron, and S. Harms (2015) “Characterizing the effects of policy instruments on the future costs of carbon capture for coal power plants.” *Climatic Change* 133(2): 155–168.
46. **Nemet, G. F.** (2015) “Modeling long term energy futures after Nordhaus 1973.” *Journal of Natural Resources Policy Research* 7(2–3): 141–146..
47. Sierczula, W., and **G.F. Nemet** (2015) “Patents and prototypes as preliminary indicators for technology-forcing policies:Lessons from California’s Zero Emission Vehicle regulations.” *Technological Forecasting and Social Change* 100: 213–224.
48. Verdolini, E., L.D.Anadon, J.Lu, and **G.F. Nemet** (2015) “The effects of R&D, expert selection, and elicitation design on experts’ estimates of the future costs of photovoltaics.” *Energy Policy* 80: 233–243.
49. Plachinski, S.D., T. Holloway, P.J. Meier, **G.F. Nemet**, A. Rrushaj, J.T. Oberman, P.L. Duran and C.L. Voigt (2014). “Quantifying the emissions and air quality co-benefits of lower-carbon electricity production.” *Atmospheric Environment* 94: 180-191.
50. **Nemet, G.F.**, P. Braden, E. Cubero, and B. Rimal. (2014) “Four decades of multi-year targets in energy policy: aspirations or credible commitments?” *Wiley Interdisciplinary Reviews: Energy and Environment*, 3(5): 522-533.
51. Anadon, L.D., **G.F. Nemet**, and E.Verdolini. (2013) “The future costs of nuclear power using multiple expert elicitations: effects of RD&D and elicitation design.” *Environmental Research Letters*, 8(3): 034020.
52. **Nemet, G.F.**, E. Baker, and K. Jenni (2013) “Modeling the future costs of carbon capture using experts’ elicited probabilities under policy scenarios.” *Energy*, 56: 218–228.
53. Jenni, K., E. Baker, and **G.F. Nemet** (2013) “Expert Elicitations of Energy Penalties for Carbon Capture Technologies.” *International Journal of Greenhouse Gas Control*, 12: 136–145.
54. Altwies, J. and **G.F. Nemet** (2013) “Innovation in the U.S. building sector: an assessment of patent citations in building energy control technology.” *Energy Policy*, 52(1): 819–831.

55. **Nemet, G.F.** (2012) “Subsidies for new technologies and knowledge spillovers from learning by doing.” *Journal of Policy Analysis and Management*, 31(3): 601–622.
56. Wilson, C., A. Grubler, K.S. Gallagher, and **G.F. Nemet** (2012) “Marginalization of end-use technologies in energy innovation for climate protection.” *Nature Climate Change*, 2(11): 780–788.
57. **Nemet, G.F.** (2012) “Inter-technology knowledge spillovers for energy technologies.” *Energy Economics*, 34(5): 1259–1270.
58. Gallagher, K.S., A. Grubler, L. Kuhl, **G.F. Nemet**, and C. Wilson (2012) “The Energy Technology Innovation System.” *Annual Review of Environment and Resources*, 37(1): 137–162.
59. **Nemet, G.F.** and E. Johnson (2012) “Do important inventions benefit from knowledge originating in other technological domains?” *Research Policy*, 41(1): 190–200.
60. **Nemet, G.F.** and A.R. Brandt. (2012) “Willingness to pay for a climate backstop: liquid fuel producers and direct CO<sub>2</sub> air capture” *The Energy Journal*, 33(1): 53–82.
61. Rasmussen, D. J., T. Holloway, and **G.F. Nemet** (2011) “Opportunities and challenges in assessing climate change impacts on wind energy,” *Env. Research Letters*, 6(2):024008.
62. **Nemet, G. F.**, T. Holloway, and P. Meier (2010) “Implications of incorporating air-quality benefits into climate change policymaking.” *Env. Research Letters* 5(1):014007. (Selected as one of ten milestone articles in *ERL’s first ten years.*)
63. **Nemet, G. F.** (2010) “Cost containment in climate policy and incentives for technology development.” *Climatic Change*, 103: 423–443.
64. **Nemet, G.F.** (2010) “Robust incentives and the design of a climate change governance regime” *Energy Policy*, 38(11): 7216–7225.
65. **Nemet, G. F.** and E. Baker (2009). “Demand subsidies versus R&D: comparing the uncertain impacts of policy on a pre-commercial low-carbon energy technology.” *The Energy Journal* 30(4): 49–80. (Awarded best paper in *The Energy Journal* in 2009.)
66. **Nemet, G.F.** (2009) “Demand pull, technology push, and government-led incentives for non-incremental technical change.” *Research Policy* 38(5): 700–709.
67. **Nemet, G.F.** (2009) “Net radiative forcing from widespread deployment of photovoltaics.” *Environmental Science & Technology* 43(6): 2173–2178.
68. **Nemet, G.F.** (2009) “Interim monitoring of cost dynamics for publicly-supported energy technologies” *Energy Policy* 37(3): 825–835.
69. **Nemet, G.F.** and D.M. Kammen (2007) “U.S. energy R&D: declining investment, increasing need, and the feasibility of expansion” *Energy Policy* 35(1): 746–755.
70. **Nemet, G.F.** (2006) “Beyond the learning curve: factors influencing cost reductions in photovoltaics” *Energy Policy* 34(17): 3218–3232.
71. **Nemet, G.F.** and A.J. Bailey (2000) “Distance and health care utilization among the rural elderly” *Social Science and Medicine* 50:1197–1208.

#### BOOK CHAPTERS

- B1. Louwen, A, **G. F. Nemet**, D. Husmann, W. Sark (2021) “Historical and Future Cost Dynamics of Photovoltaic Technology” in *Reference Module in Earth Systems and Environmental Sciences*. Elsevier.
- B2. Stephens, J. and **G. F. Nemet** (2020). “Should Future Investments in Energy Technology be Limited Exclusively to Renewables?” in *Contemporary Climate Change Debates: A Student Primer*. M. Hulme, Routledge.

- B3. **Nemet, G.F.** and J.Patz (2015), “Ch. 13 Energy Policy in Developed Countries.” In *Climate Change and Public Health*. Levy and Patz. Oxford, Oxford University Press.
- B4. **Nemet, G.F.** (2015). Economics of Renewable Energy Production. In *Emerging Trends in the Social and Behavioral Sciences*. R. Scott and S. Kosslyn, John Wiley and Sons.
- B5. **Nemet, G.F.** (2014). Solar Water Heater Innovation in the United States, China, and Europe. In *Energy Technology Innovation: Learning from Historical Successes and Failures*. A. Grubler and C. Wilson. Cambridge, Cambridge University Press: 105–117.
- B6. **Nemet, G.F.** (2014). Technological Improvements in Solar Thermal Electricity in the United States and the Role of Public Policy. In *Energy Technology Innovation: Learning from Historical Successes and Failures*. A. Grubler and C. Wilson. Cambridge, Cambridge University Press: 165–177.
- B7. Grubler, A. and **G. F. Nemet** (2014). Sources and Consequences of Knowledge Depreciation. In *Energy Technology Innovation: Learning from Historical Successes and Failures*. A. Grubler and C. Wilson. Cambridge, Cambridge University Press: 133–145.
- B8. **Nemet, G.F.** (2014). Automobile Fuel Efficiency Standards. In *Energy Technology Innovation: Learning from Historical Successes and Failures*. A. Grubler and C. Wilson. Cambridge, Cambridge University Press: 178–192.
- B9. **Nemet, G.F.** (2014). Solar Photovoltaics: Multiple Drivers of Technological Improvement. In *Energy Technology Innovation: Learning from Historical Successes and Failures*. A. Grubler and C. Wilson. Cambridge, Cambridge University Press: 206–219.
- B10. Anadon, L. D. and **G. F. Nemet** (2014). The U.S. Synthetic Fuels Corporation: Policy Consistency, Flexibility, and the Long-Term Consequences of Perceived Failures. In *Energy Technology Innovation: Learning from Historical Successes and Failures*. A. Grubler and C. Wilson. Cambridge, Cambridge University Press: 257–273.
- B11. **Nemet, G.F.** (2013) “Technological Change and Climate Change Policy.” In: Shogren, J.F., (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Vol. 1, pp. 107-116 Amsterdam: Elsevier.
- B12. **Nemet, G.F.** and D. Husmann (2012). “PV learning curves and cost dynamics” in *Advances in Photovoltaics Part I, 1st Edition*. G. Willeke and E. Weber, Academic Press. 87.
- B13. GEA (2012) “Ch. 24, Policies for the Energy Technology Innovation System” in *The Global Energy Assessment (GEA)*. Cambridge University Press (Lead Author).
- B14. Baker, E. , **G.F. Nemet** and P. Rasmussen (2012). “Modeling the Costs of Carbon Capture” in Handbook of CO<sub>2</sub> in Power Systems. Q. P. Zheng, S. Rebennack, P. M. Pardalos, M. V. F. Pereira and N. A. Iliadis. Berlin Heidelberg, Springer: 349-372.
- B15. **Nemet, G.F.** and D. Husmann (2012) “Historical and future cost dynamics of PV technology” in *Comprehensive Renewable Energy*. Ed. A. Sayigh et al., Oxford: Elsevier, pp 47–72.
- B16. IPCC (2011) “Chapter 11, Policy, Financing and Implementation” in *Intergovernmental Panel on Climate Change (IPCC) Special Report on Renewable Energy*, (Contributing Author).
- B17. **Nemet, G.F.** (2010) “Benefit Cost Analysis of R&D as a Solution to Climate Change” in *Smart Solutions to Climate Change: Comparing Costs and Benefits*. Ed. B. Lomborg. Cambridge University Press: 349–359.
- B18. van Sark, Wene, Neij, **G.F. Nemet** (2010) “Ch. 2 General aspects and caveats of experience curve analysis” in *Technological Learning in the Energy Sector: Lessons for Policy, Industry and Science*. Ed. M. Junginger. Cheltenham, UK, Edward Elgar: 18–35.

- B19. van Sark, Schaeffer, **G.F. Nemet**, Alsema (2010) “Ch. 7 Photovoltaic Solar Energy” In *Technological Learning in the Energy Sector: Lessons for Policy, Industry and Science*. Ed. M. Junginger. Cheltenham, UK, Edward Elgar : 93–114.
- B20. **Nemet, G.F.** (2008) “Evaluating the demand-pull hypothesis” In *Innovation for a Low Carbon Economy: Economic, Institutional and Management Approaches*. T. Foxon, J. Köhler, and C. Oughton. Cheltenham, UK, Edward Elgar: 87–143.
- B21. Kammen, D.M. and **G.F. Nemet** (2007) “Energy R&D investment” In *Energy and American Society—13 Myths*. B. Sovacool and M. Brown. Springer: 289–310.

#### OTHER PUBLICATIONS

Smith, S.M., Geden, O., **Nemet, G.F.**, et al. (2023). “The State of Carbon Dioxide Removal - 1st Edition”, [stateofcdr.org](https://stateofcdr.org).

Hemmingsen, L., (2022). “The Climate Technology Progress Report.” United Nations Environment Program (UNEP-CCC). <https://unepccc.org/the-climate-technology-progress-report-2022/>. (Contributing author).

**Nemet, G. F.** (2020) “Forum: Climate Emergency Hazard” Issues in Science and Technology, Winter.

**Nemet, G. F.** (2014) “Can Local Motivations Help Address the Global Climate Problem?” La Follette School of Public Affairs, Policy Report, Fall.

Wiesenthal, T., D. P., et al. (2012). “Learning Curves for Energy Policy Support,” European Commission, European Commission, Joint Research Center, doi:10.2790/59345.

Muller, J.P., and **G.F. Nemet** (2009). “Implications of Climate Policy in a Carbon-Intensive Region: Estimating Abatement Costs under Deep Policy Uncertainty”, *La Follette School Working Paper No. 2009-015*.

Kammen, D. M., A. E. Farrell, et al. (2007). “Energy and Greenhouse Impacts of Biofuels: A Framework for Analysis.” *Discussion Paper 2007-02*, Paris, Organization for Economic Cooperation and Development, International Transport Forum: Joint Transportation Research Center.

Neuhoff, K., J. Lossen, **G.F. Nemet** et al. (2007). The role of the supply chain in innovation: the example of photovoltaic cells. *EPRG Working Paper 07/32*. Cambridge, U.K., University of Cambridge - Electricity Policy Research Group.

**Nemet, G.F.** (2006) “How well does learning-by-doing explain cost reductions in a carbon-free energy technology?” *Nota di Lavoro 143.2006*, Fondazione Eni Enrico Mattei (FEEM), Milan, Italy.

Kammen, D.M. and **G.F. Nemet** (2005) “Reversing the incredible shrinking energy R&D budget” *Issues in Science and Technology* 22(1): 84-88, Fall.

#### CONFERENCE PRESENTATIONS AND INVITED TALKS

##### 2016

Association for Public Policy and Management, Washington  
Economics for Energy, Madrid  
ETH-Zurich  
German Institute for Economic Research (DIW)

International Association for Energy Economics, Bergen  
Mercator Research Institute on Global Commons and Climate Change, Berlin  
Potsdam Institute for Climate Impacts Research (PIK), Potsdam  
SPRU, University of Sussex, U.K.  
Technical University of Berlin

**2015**

Carnegie Mellon University  
German Institute for Economic Research, Berlin  
Integrated Assessment Modeling Consortium, Postdam  
Internationales Begegnungszentrum der Wissenschaft, Berlin  
Mercator Research Institute on Global Commons and Climate Change, Berlin  
Organization for Economic Cooperation and Development, Paris

**2014**

International Energy Workshop, Beijing  
German Institute for Economic Research (DIW), Berlin  
Lawrence Berkeley National Laboratory, Berkeley, CA  
Mercator Research Institute on Global Commons and Climate Change, Berlin  
Society for Benefit Cost Analysis, Washington  
U.Wisconsin Founder's Day, Columbus, OH

**2013**

AMPERE Technology Workshop, Seville, Spain  
Association for Public Policy and Management, Washington  
Massachusetts Institute of Technology  
Society for Benefit Cost Analysis, Washington  
University of Texas at Austin  
U.S. Association for Energy Economics, Anchorage  
U.Wisconsin Alumni Club, Green Bay WI  
U.Wisconsin Founder's Day, Platteville WI

**2012**

Center for European Economic Research (ZEW) Mannheim, Germany  
Energy Modeling Forum, Snowmass CO  
Georgetown University  
Harvard Kennedy School  
National Science Foundation  
University of Arizona

**2011**

Association for Public Policy and Management, Washington  
Fondazione Eni Enrico Mattei (FEEM), Venice  
Harvard Kennedy School  
Maxwell School of Syracuse University  
Swiss Federal Institute of Technology (ETH), Zurich

**2010**

Association for Public Policy and Management, Boston.  
Fourth World Congress for Environmental and Resource Economists, Montreal.  
International Energy Workshop, Stockholm.



National Academy of Sciences, Washington.  
Potsdam Institute for Climate Impact Research, Germany.

**2009**

Association for Public Policy and Management, Washington.  
BioPharmaceutical Technology Center Institute, Madison WI.  
Copenhagen Consensus on Climate Change, Washington.  
Fond du Lac, WI Public Library.  
Madison Gas & Electric.  
National Academy of Sciences.  
University of Maryland, Joint Global Change Research Institute.  
Wisconsin Counties Utility Tax Association.

**2008**

Association for Public Policy and Management, Los Angeles.  
International Energy Agency, Paris.  
Marian University of Wisconsin.  
The Santa Fe Institute.  
University of Colorado, Boulder.  
U.S. Dept. of Energy, National Renewable Energy Laboratory.  
Yale University, School of Forestry and Environmental Studies

**2007**

The International Energy Agency, Paris.  
International Energy Workshop, Stanford University.  
U.S. Association for Energy Economics, Houston.

TEACHING

**University of Wisconsin, Madison.**

Chair, Energy Analysis and Policy (EAP) certificate program.

Public Affairs 809: *“Introduction to Energy Analysis and Policy”*  
Fall 2008–17, “Overall performance:” 4.8/5.0

Public Affairs 866: *“Global Environmental Governance”*  
Spring 2008–16 “Overall performance:” 4.8/5.0

Public Affairs 873: *“Introduction to Policy Analysis”*  
Spring 2014, 2015, 2017 “Overall performance:” 4.5/5.0

Environmental Studies 900: *“Governance of Global Energy Problems”*  
Fall 2009, 2010 “Overall performance:” 4.3/5.0

Environmental Studies 900: *“Energy Analysis and Policy seminar”*  
Fall 2016, 2017

**University of California, Berkeley**

Energy & Resources 102: *“Quantitative Aspects of Global Environmental Problems”* Spring 2006  
(T.A.), “Teaching effectiveness:” 6.3/7.0

TESTIMONY

Kammen, D.M. (2007) “A Ten Year Outlook for Energy” Testimony provided to the *U.S. House of Representatives Committee on Appropriations*, Washington, D.C. 28 February (**G.F. Nemet**, primary researcher).

Kammen, D.M. (2006) “Department of Energy’s Plan for Climate Change Technology Programs” Testimony provided to the *U.S. House of Representatives Science Committee, sub-committee on Energy*, Washington, D.C. 20 September (**G.F. Nemet**, primary researcher).

Kammen, D.M. (2003) “The Future of University Nuclear Science and Engineering Programs” Testimony provided to the *U.S. House of Representatives Science Committee, sub-committee on Energy*, Washington, D.C. 10 June (**G.F. Nemet**, primary researcher).

#### GOVERNMENT REPORTS

Taylor, M.R., **G.F. Nemet**, C. Wadia, T. Dillavou, and M. Colvin (2007) “Government Actions and Innovation in Clean Energy Technologies: The Cases of Photovoltaic Cells, Solar Thermal Electric Power, and Solar Water Heating” CEC-500-2007-012 *CA Energy Commission*.

Taylor, M.R., E.S. Rubin, and **G.F. Nemet** (2006) “Chapter 3: The Role of Technological Innovation in Meeting California’s Greenhouse Gas Emissions Targets” in *Managing Greenhouse Gas Emissions in California* for the *California Environmental Protection Agency*.

Taylor, M.R., D. Thornton, **G.F. Nemet**, and M. Colvin (2006) “Government Actions and Innovation in Environmental Technology for Power Production: The Cases of Selective Catalytic Reduction and Wind Power in California” CEC-500-2006-053 *CA Energy Commission*.

Taylor, M.R., **G.F. Nemet**, C. Wadia, T. Dillavou, and M. Colvin (2005) “Government Actions and Innovation in Environmental Technology for Power Production: The Cases of PV Cells, Solar Thermal Electric Power, and Solar Water Heating” *CA Energy Commission*.

Lipman, T.E., **G.F. Nemet**, and D.M. Kammen (2004) “A review of advanced power technology programs in the United States and abroad including linked transportation and stationary sector developments” ARB-R-04-813 *California Air Resources Board*.

#### AWARDS AND GRANTS

*U. Wisconsin Kellett Mid-Career Award* (\$75k) 2022–27

*U. Wisconsin Vilas Investigator Award* (\$75k) 2022–24

*ERC Synergy Grant*, \$10m, \$1m to Nemet/U. Wisconsin. 2021-26

*RITE Japan*, \$40k, 2020-21.

*World Citizen Prize in Environmental Performance*, APPAM (\$3000).

*Andrew Carnegie Fellow 2017–19* (\$200k)

*U.S. Dept of Energy*, “SEEDS2 - Knowledge Spillovers in Solar ” (\$100k) 2017–19.

*Higher Education Energy Educator of the Year*, Wisc. Center for Environmental Education, 2016.

*U. Wisconsin Romnes Faculty Fellowship* (\$50k) 2015–16

*U.S. Dept of Energy*, “Deep Dive Solar Cost Analysis: Phase II ” (\$95k) 2013–15.

*National Science Foundation*, PI: “Choosing a Portfolio of Technology Policies in an Uncertain World.” (\$183k) 2010–14.

Campbell Watkins Award for best paper published in *The Energy Journal* in 2009.

*American Family Insurance*, “American Family Energy Study” PI (\$25k) 2009.

*Madison Gas & Electric*, “Policy analysis of greenhouse gas reductions” PI (\$40k) 2008.

*Wisconsin Alumni Research Foundation Grant* PI (\$24k) 2008.

*Wisconsin Focus on Energy*, “Coordinated Strategies for Climate and Air Quality” Co-PI (\$100k) 2008.

*U. Wisconsin Center for World Affairs and the Global Economy*, “Governing New Conflicts in Global Energy Futures,” Co-PI (\$100k) 2008.

*Fulbright Seminar*, Germany, “Science and Society: The Impact of Science on Policy Formation,” (\$4k) 2008.

*Wisconsin Alumni Research Foundation Grant* PI (\$12k) 2007.

U.S. Association for Energy Economics, *Student Paper Award*, 2006.

U.S. National Academies, *IIASA-YSSP Fellow*, 2004.

American Council on Germany, *Delegate*, Young Leaders Conference, 2000.

George Perkins Marsh Award for outstanding thesis work, 1995.

Dartmouth College, graduated *cum laude* and *with High Honors*, 1995.

#### ADDITIONAL POSITIONS

- Advisory Board, Global Health Institute, UW-Madison
- Steering Committee, Holtz Center for Science and Technology Studies, UW-Madison
- Affiliate, Nelson Institute for Environmental Studies, UW-Madison
- Affiliate, Tommy Thompson Center on Public Leadership, UW-Madison
- Faculty, Energy Analysis and Policy (EAP) program, UW-Madison
- Faculty, Resource and Energy Demand Analysis (REDA) program, UW-Madison

#### PREVIOUS POSITIONS

<b>U. California–Berkeley</b>	Graduate Student Instructor and Researcher, 2002–2007
<b>Intl. Institute for Applied Systems Analysis (IIASA)</b>	Summer program, 2004
<b>California Public Utilities Commission</b>	Self-Gen Program, 2002
<b>The Institute for the Future</b>	Research Manager, 2000–2002
<b>The Planning Technologies Group</b>	Associate Consultant, 1995–1999

#### JOURNAL REFEREEING

Biomass and Bioenergy	Journal of Environmental Economics and Management
Climatic Change	Journal of Environmental Management
Energy Economics	Journal of Policy Analysis and Management
Environmental Economics & Policy Studies	Nature Climate Change
The Energy Journal	Policy Studies Journal
Energy Policy	Proceedings of the National Academy of Sciences
Energy Research & Social Science	Public Finance and Management
Environmental Innovation and Societal Transitions	Research Policy
Environmental Modeling and Assessment	Resource and Energy Economics
Environmental Research Letters	Review of Economics and Statistics
Environmental and Resource Economics	Science
Environmental Science & Policy	Technological Forecasting & Social Change
Environmental Science & Technology	Wiley Interdisciplinary Reviews: Climate Change.
Interfaces	
Journal of Comparative Policy Analysis	

OTHER REFEREEING

Chile Ministry of Economy, Dev, and Tourism	Swiss National Science Foundation
Intergovernmental Panel on Climate Change	U.S. Environmental Protection Agency
International Energy Agency	U.S. Department of Energy
National Science Foundation	U.S. National Academies

PROFESSIONAL ASSOCIATIONS

American Council on Germany  
Association of Environmental and Resource Economists  
Association for Public Policy Analysis and Management  
United States Association for Energy Economics

LANGUAGES

French (intermediate), German (intermediate).