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CURRENT APPOINTMENTS

Lawrence Berkeley National Laboratory, Scientist & Co-Director (India Program)

February 2013 – present (Electricity Markets and Policy Department)

University of California, Berkeley, Senior Scientist

January 2020 – present (Goldman School of Public Policy)

EDUCATION

Stanford University, Ph.D., [Environment and Resources](#)

Field: Energy Economics and Policy

University of Pune, M.A., Economics

College of Engineering, Pune, B. Eng., Electrical Engineering (University of Pune Gold Medal)

PREVIOUS APPOINTMENTS

Lawrence Berkeley National Laboratory, Research Affiliate, 2009-2012

Stanford University Precourt Energy Efficiency Center, Research Assistant, 2012

Stanford University, Teaching Assistant, 2009-2010

Prayas Energy Group (India), Research Associate, 2004-2007

HONORS AND AWARDS

Berkeley Lab Director's Award for Exceptional Scientific Achievement in Societal Impact (2021)

Berkeley Lab Spot Award for Initiatives in Power System Modeling (2020)

Rudolph and McGee research fellowships, Stanford University (2008-2012)

RESEARCH

Focus: electricity markets & policies, offshore wind, electric vehicles, energy efficiency, industrial energy.

History of leading extremely high impact and comprehensive energy studies such as [The 2035 Report \(U.S.\)](#), [India Flexible Resources Initiative](#), [U.S. 2030 NDC](#), [China Clean Power](#) etc.

Over 60 peer-reviewed and other research papers. Wide coverage of the research in media.

Regular advice to governments, regulators, and utilities on designing clean energy policies and programs.

SELECTED PUBLICATIONS**PEER-REVIEWED ARTICLES**

1. Abhyankar, Nikit, 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 (2022). "[Achieving an 80% Carbon Free Electricity System in China by 2035](#)", *Joule* (0) (Under Review).
2. Bistline, John, Nikit Abhyankar, Geoffrey Blanford, Leon Clarke, R Fakhry, H McJeon, J Reilly, C Roney, T Wilson, M Yuan, A Zhao (2022). "[Actions for Reducing U.S. Greenhouse Gas Emissions at Least 50% by 2030](#)", *Science* 376 (6596) 922-924.
3. Lin, Jiang, Nikit Abhyankar, Gang He, Xu Liu, Shengfei Yin (2022). "[Large balancing areas and dispersed renewable investment enhances grid flexibility in a renewable-dominant power system in China](#)", *iScience* 25 (2), 103749 (2022).
4. Santana, Paulo, Nikit Abhyankar, and Luiza Bertazzoli (2021) "[Promoting Bus Electrification through Policy Mechanisms: A Case Study in Large Cities in Brazil](#)". *International Journal of Development Research*, 11 (12), 52446-52457 (2021).
5. He, Gang, Jiang Lin, Froylan Sifuentes, Xu Liu, Nikit Abhyankar, and Amol Phadke (2020) "[Rapid cost decrease of renewables and storage accelerates the decarbonization of China's power system](#)". *Nature Communications* (11), 2486 (2020).
6. Phadke, Amol, Nikit Abhyankar, Ranjit Deshmukh, Julia Szinai et al (2020), "[Cost-effective decarbonization of California's Power Sector by 2030 With the Aid of Battery Storage](#)", In *POWER Conference on Energy Research and Policy* (April 2020), University of California, Berkeley.
7. Abhyankar, Nikit, Jiang Lin, Xu Liu, and Froylan Sifuentes (2020). "[Economic and environmental benefits of market based power system reform in China](#)", *Resources, Conservation & Recycling* 153 (2020).
8. Karali, Nihan, Nikit Abhyankar, Aditya Khandekar (2020), "[Empirical Assessment of the Appliance-Level Load Shape and Demand Response Potential in India](#)", In *Energize- Energy Innovation for a Sustainable World* (February 2020), India.
9. Phadke, Amol, Won Young Park, Nikit Abhyankar (2019) "[Providing reliable and financially sustainable electricity access in India using super-efficient appliances](#)", *Energy Policy*, 132(0), 1163-1175.
10. Szinai, Julia, Colin Sheppard, Nikit Abhyankar, Anand Gopal (2019), "[Managing Electric Vehicle Charging Can Reduce Renewable Energy Curtailment and the Cost of Grid Operations in California](#)". *Energy Policy* (0) 111051.
11. De la Rue du Can, Stephane, Aditya Khandekar, Nikit Abhyankar, Amol Phadke (2019) "[Modeling India's Energy Future Using a Bottom-up Approach](#)", *Applied Energy*, 238(0), 1108-1125.
12. Soonee, S., Narasimhan, S., Joshi, M., Cochran, J., Palchak, D., Ehlen, A., McBennett, B., Sreedharan, P., Abhyankar, N., Deshmukh, R. (2018), "[Analysis of Strategies for Integrating 175 GW of Renewable Energy in India](#)," *IEEE Innovative Smart Grid Technologies Asia* 2018.
13. Rai, Varun, Rahul Tongia, Gireesh Shrimali, Nikit Abhyankar, (2017) "[Data for development: The case for an Indian energy information administration](#)", *Energy Research & Social Science*, 25(0), 105-109.

14. Deshmukh, R., D Callaway, N. Abhyankar, A. Phadke (2017). "[Cost and Value of Wind and Solar in India's Electric System in 2030](#)". In *1st International Conference on Large Scale Renewable Energy Grid Integration in India*. New Delhi, India.
15. Abhyankar, Nikit, Nihar Shah, Virginie E Letschert, and Amol A Phadke. (2017) "[Assessing the Cost-Effective Energy Saving Potential from Top-10 Appliances in India](#)". In *9th International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL)*. Irvine, California.
16. Park WY, A. Phadke, N. Abhyankar and N. Shah (2017), "Relationship between Appliance Prices and Energy-Efficiency Standards and Labeling Policies: Empirical Evidence from Residential Air Conditioners". In *9th International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL)*. Irvine, California.
17. Shah, Nihar, N. Abhyankar, A. Phadke, and G. Ghatikar. (2015), "[Considerations in Standardization for Demand Ready Air Conditioners in India](#)". In *India Smart Grid Week (ISGW) 2015*, Bangalore, India.
18. Phadke, Amol, N. Abhyankar, and N. Shah. (2013), "[Avoiding 100 New Power Plants by Increasing Efficiency of Room Air Conditioners in India: Opportunities and Challenges](#)". In *7th International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL)*. Coimbra, Portugal.
19. Abhyankar, Nikit, & Phadke, A. (2012). "[Impact of large-scale energy efficiency programs on utility finances and consumer tariffs in India](#)". *Energy Policy*, 43(0), 308-326.
20. Abhyankar, Nikit (2012). "[Political Economy of Natural Gas Market in India](#)". *The Stanford Energy Journal*, (2) 2012.
21. Chikkatur, Ananth P., Sagar, A. D., Abhyankar, N., & Sreekumar, N. (2007). "[Tariff-based incentives for improving coal-power-plant efficiencies in India](#)". *Energy Policy*, 35(7), 3744-3758.
22. Abhyankar, Nikit (2005). "[Power Sector Restructuring in Madhya Pradesh](#)". *Economic and Political Weekly*, XL (48).

OTHER RESEARCH REPORTS

23. Abhyankar, Nikit, David Wooley, Amol Phadke (2022). "[Clean truck deployment consistent with President Biden's climate commitment can save \\$1 trillion for consumers and avoid 70,000 premature deaths by 2050](#)", Working Paper 2, Center for Environmental Public Policy, Goldman School of Public Policy, University of California, Berkeley.
24. Paliwal, Umed, Nikit Abhyankar, David Wooley, Amol Phadke (2022). "[The Offshore Report: California, Plummeting offshore wind costs can accelerate a diverse net-zero grid](#)", Working Paper 1, Center for Environmental Public Policy, Goldman School of Public Policy, University of California, Berkeley.
25. Abhyankar, Nikit, Shruti Deorah, Nihan Karali, Priyanka Mohanty, Jessica Kersey, Umed Paliwal, Amol Phadke (2022). [Harnessing India's Renewable Edge for Cost-Effective Energy Independence: Sectoral Pathways](#), Lawrence Berkeley National Laboratory.
26. Deorah, Shruti, Aditya Khandekar, Deepak Rajagopal, Nikit Abhyankar (2022). [Pathways for Electrification of South Asia's Transportation Sector](#), Lawrence Berkeley National Laboratory.
27. Khandekar, Aditya, Shruti Deorah, Nikit Abhyankar (2022). [Feasibility and Impact of Biomass and Renewable Energy Hybrid Systems](#), Lawrence Berkeley National Laboratory.

28. Karali, Nihan, Nikit Abhyankar, Shruti Deorah (2022). [Electricity demand in South Asia – data gaps and pathways for research and modeling](#), Lawrence Berkeley National Laboratory.
29. Abhyankar, Nikit, Shruti Deorah, Amol Phadke (2021). [Least Cost Pathway for India’s Power System Investments through 2030](#), Lawrence Berkeley National Laboratory.
30. Deorah, Shruti, Nikit Abhyankar, Siddharth Arora, Kanika Chawla, Amol Phadke (2021). [Assessing the Key Requirements for 450 GW of Renewable Capacity in India by 2030](#), Lawrence Berkeley National Laboratory.
31. Kahrl, Frederich, Shruti Deorah, Lakshmi Alagappan, Paul Sotkiewicz, Nikit Abhyankar (2021). [Policy and Regulatory Recommendations to Support a Least Cost Pathway for India’s Power Sector](#), Lawrence Berkeley National Laboratory.
32. Lin, Jiang, Nikit Abhyankar, Gang He, Xu Liu, Shengfei Yin (2021). [Enhancing grid flexibility under scenarios of a renewable-dominant power system in China](#), Lawrence Berkeley National Laboratory.
33. Cutter, Eric, E. Rogers, A. Nieto, J Leana, J Kersey, T McNair, N Abhyankar (2021), [“Distribution Grid Cost Impacts Driven by Transportation Electrification”](#), Goldman School of Public Policy, University of California, Berkeley.
34. Abhyankar, Nikit, Umed Paliwal, Amol Phadke, Taylor McNair, David Wooley, Michael O’Boyle (2021). [“2030 Report: Powering America’s Clean Economy”](#), Goldman School of Public Policy, University of California, Berkeley.
35. Abhyankar, Nikit, Priyanka Mohanty, Amol Phadke (2021). [“Illustrative Strategies for the United States to Achieve 50% Emissions Reduction by 2030”](#), Lawrence Berkeley National Laboratory.
36. Phadke, Amol, Nikit Abhyankar, Jessica Kersey, Taylor McNair, Umed Paliwal et al (2021). [“2035 Report 2.0: Plummeting Costs and Dramatic Improvements in Batteries Can Accelerate Our Clean Transportation Future”](#), Goldman School of Public Policy, University of California Berkeley.
37. Phadke, Amol, Aditya Khandekar, Nikit Abhyankar, David Wooley, and Deepak Rajagopal (2021). [“Why Regional and Long-Haul Trucks are Primed for Electrification Now”](#), Lawrence Berkeley National Laboratory.
38. O’Boyle, Michael, Sara Baldwin, Sarah Spengeman, Taylor McNair, Amol Phadke, Nikit Abhyankar, Umed Paliwal (2021), [“A National Clean Electricity Standard To Benefit All Americans, Energy Innovation Policy and Technology”](#), San Francisco.
39. Joshi, Mohit, Palchak, David, Horowitz, Russell, Waite, Taryn, Evans, Meredydd, Yu, Sha, Voisin, Nathalie, Alam, Jan, Karali, Nihan, Deorah, Shruti, and Abhyankar, Nikit. (2021), [“Charting a Path for Research and Development of Reliability and Resilience in South Asia's Power Sector”](#), National Renewable Energy Laboratory.
40. Phadke, Amol, S Aggarwal, M O’Boyle, E Gimon, N Abhyankar (2020), [“Illustrative Pathways To 100 Percent Zero Carbon Power By 2035 Without Increasing Customer Costs”](#), Energy Innovation Policy and Technology, San Francisco.
41. Phadke, Amol, U Paliwal, N Abhyankar, T McNair, B Paulos, D Wooley, R O’Connell (2020), [“2035 Report: Plummeting Solar, Wind, and Battery Costs Can Accelerate Our Clean Energy Future”](#), Goldman School of Public Policy, University of California.
42. Deorah, Shruti, Nikit Abhyankar, Siddharth Arora, Ashwin Gambhir, Amol Phadke (2020), [“Estimating the Cost of Grid-Scale Lithium-Ion Battery Storage in India”](#), Lawrence Berkeley National Laboratory – 2001314.

43. Letschert, V, S Price, WY Park, N Karali, N Abhyankar, et al (2020), "[Accelerating the Transition to More Energy Efficient Air Conditioners in Indonesia](#)", Lawrence Berkeley National Laboratory.
44. Sheppard, Colin, Julia Szinai, Nikit Abhyankar, Anand Gopal (2019), "[Grid Impacts of Electric Vehicles and Managed Charging in California](#)", Lawrence Berkeley National Laboratory.
45. Karali, Nihan, Nikit Abhyankar, Aditya Khandekar (2019), "[Characterizing Appliance Level Demand Response Potential in India](#)", Lawrence Berkeley National Laboratory.
46. Karali, Nihan, Nikit Abhyankar, Ben Sharpe, Anup Bandivadekar (2019), "[Improving Fuel Efficiency of Heavy Duty Vehicles \(3.5 to 12 tonnes\) in India: Benefits, Costs, and Environmental Impacts](#)". Lawrence Berkeley National Laboratory.
47. Khandekar, Aditya, Deepak Rajagopal, Nikit Abhyankar, Shruti Deorah, and Amol Phadke (2018), "[Economic case for all new buses to be electric: A case study for India](#)", Lawrence Berkeley National Laboratory.
48. Palchak, D, J. Cochran, R. Deshmukh, A. Ehlen, S. Soonee, S. Narasimhan, M. Joshi, B. McBennett, M. Milligan, P. Sreedharan, I. Chernyakhovskiy, N. Abhyankar (2017). "[Greening the Grid: Pathways to Integrate 175 Gigawatts of Renewable Energy into India's Electric Grid](#)", Lawrence Berkeley National Laboratory and National Renewable Energy Laboratory. LBNL-2001012
49. Abhyankar, Nikit, Anand Gopal, Collin Sheppard, Won Young Park, and Amol Phadke (2017). "[Techno-Economic Assessment of Deep Electrification of Passenger Vehicles in India](#)", Lawrence Berkeley National Laboratory. LBNL-1007121.
50. Abhyankar, Nikit, Nihar Shah, Amol Phadke, and Won Young Park (2017). "[Technical and Economic Aspects of Designing an Efficient Room Air-Conditioner Program in India](#)". Lawrence Berkeley National Laboratory. LBNL-2001048.
51. Abhyankar, Nikit, Nihar Shah, Won Young Park, and Amol Phadke (2017). "[Accelerating Energy Efficiency Improvements in Room Air Conditioners in India: Potential, Costs-Benefits, and Policies](#)". Lawrence Berkeley National Laboratory. LBNL-1005798.
52. Phadke, A., Nikit Abhyankar, and Ranjit Deshmukh. (2016). "[Techno Economic Assessment of Integrating 175 GW of Renewable Energy into the Indian by 2022](#)". Lawrence Berkeley National Laboratory. LBNL-1005800.
53. Shah, Nihar, Nikit Abhyankar, Won Young Park, Amol Phadke, S. Diddi, D. Ahuja, P. Mukherjee, and Archana Walia (2016). "[Cost-Benefit of Improving the Efficiency of Room Air Conditioners \(Inverter and Fixed Speed\) in India](#)". Lawrence Berkeley National Laboratory. LBNL-1005787.
54. Gopal, Anand R., Maggie Witt, Nikit Abhyankar, Colin Sheppard, and Andrew Harris (2015). "[Battery electric vehicles can reduce greenhouse gas emissions and make renewable energy cheaper in India](#)". Lawrence Berkeley National Laboratory LBNL-184562.
55. Phadke, Amol, Nikit Abhyankar, and Poorvi Rao (2014). "[Empirical Analysis Of The Variability Of Wind Generation In India: Implications For Grid Integration](#)". Lawrence Berkeley National Laboratory. LBNL-6673E.
56. Abhyankar, Nikit, Amol Phadke, Jayant Sathaye, Ranjit Bharvirkar, Alissa Johnson, Ranjit Deshmukh, Bob Lieberman, Cathie Murray, and Ajith Rao. (2013). "[Modeling Clean and Secure Energy Scenarios for the Indian Power Sector in 2030](#)". Lawrence Berkeley National Laboratory. LBNL-6296E

BOOK CHAPTERS

57. Abhyankar, Nikit (2009), "[Mitigation \(of Climate Change\)](#)". In [S. Schneider and M Mastrandrea \(Ed.\), Encyclopedia of Climate and Weather](#) (Second ed.). New York: Oxford University Press.

SELECTED INVITED TALKS

1. "Global Perspectives on Power Sector Decarbonization", at Stanford University (April 2022)
2. "Harnessing India's Renewable Energy Edge for Energy Independence", at India Climate and Energy Modeling Forum, NITI Aayog (March 2022)
3. "Pathways to a Carbon Free Electricity System", at 2021 Aspen Energy Week Forum (November 2021)
4. "Financing a Just Transition", at U.S.-Indonesia Coal Transition Forum (October 2021)
5. "Resource Adequacy framework for India", at National Conference on Renewable Energy Integration, USAID Greening the Grid (September 2021)
6. "Redesigning the Power markets - An enabler to RE Integration", at National Conference on Renewable Energy Integration, USAID Greening the Grid (September 2021)
7. "Grid Integration Issues to Facilitate High Renewable Energy Transition", at INDIA- ISA Energy Transition Dialogue 2021, International Solar Alliance (August 2021)
8. "Driving Power System Decarbonization Through Public Policy", at Clean Energy Purchasing and Decarbonization Workshop, Asia-Pacific Economic Cooperation (August 2021)
9. "Decarbonization pathways in South Asia", at Asia Clean Energy Forum 2021 (June 2021)
10. "Leapfrogging Opportunities Towards Clean and Smart Transportation", at India Smart Utility Week organized by India Smart Grid Forum (March 2021)
11. "Role of Energy Storage in Karnataka Context", Karnataka Power System Transformation Workshop, International Energy Agency (January 2021)
12. "Leapfrogging Opportunities in Grid Decarbonization", at First World Solar Technology Summit organized by International Solar Alliance (September 2020)
13. "Plummeting Solar, Wind, and Battery Costs Can Accelerate Our Clean Energy Future", at Haas School of Business, University of California, Berkeley (August 2020)
14. "Plummeting Solar, Wind, and Battery Costs Can Accelerate Our Clean Energy Future", at Wharton School of Business, University of Pennsylvania (August 2020)
15. "Plummeting Solar, Wind, and Battery Costs Can Accelerate Our Clean Energy Future", at Center on Global Energy Policy, Columbia University (July 2020)
16. "Balancing the Grid through Ancillary Services", at Energy Efficiency Services Limited, India (virtual) (May 2020)
17. "Pathways for Deep Decarbonization of California's Power Sector", at University of California, Berkeley (April 2020)
18. "International Perspectives on Power Sector Decarbonization", at University of San Francisco, San Francisco (April 2020)
19. "Battery Storage: Economics, Operation, and Regulatory Framework", at Forum of Regulators 70th meeting at Diu (India) (January 2020)
20. "Economics of Electric Buses and Charging Infrastructure in India", at training program on 'Planning and Procurement of Electric Buses' organized by International Association of Urban Transport (UITP), Bangalore, India (February 2019)

21. "Leapfrogging to Electric and Smart Vehicles: Key Challenges and Opportunities", at American Center Jakarta organized by the United States Embassy in Jakarta Indonesia (September 2018)
22. "Technology and Policy Leapfrogs in India's Energy Sector" at Indian Institute of Technology Bombay, Mumbai (August 2018)
23. "Transformation in India: Role of models and analysis in informing decisions", at Pathways to Low Greenhouse Gas Futures: Challenges and Opportunities, organized by Energy Modeling Forum at Snowmass, CO (July 2018)
24. "Clean Energy and Power Sector in India: Key Challenges and Opportunities", as keynote speech at Conference on Rooftop Solar PV Systems organized by The World Bank and the State Bank of India, Mumbai (September 2017)
25. "India's Clean Energy Future - Key Leapfrogging Opportunities" in The Energy Seminar at Stanford University, Stanford (April 2017)
26. "Innovation for Global Energy Access", in the Tufts Energy Conference at Tufts University, Boston (February 2017)
27. "Techno-Economic Assessment of Integrating 175GW of Renewable Energy into the Indian Grid by 2022" at Stanford University, Stanford (January 2017)
28. "Political Economy of Energy Policy in India" at University of Texas, Austin (March 2016)
29. "Technical Feasibility of Renewable Energy Grid Integration in India", technical talk at Forum of Regulators 43rd meeting at Mussoorie (India), (May 2015)
30. "Modeling Electricity Systems and Industry" at International Conference on 2050 Calculator organized by Industrial Technology Research Institute and UK Department of Energy and Climate Change, Taipei Taiwan (February 2015)
31. "Key Challenges in Renewable Energy Grid Integration", keynote speech at Electric Power Generation conference organized by the Colombian Association of Electric Power Generators (ACOLGEN), Bogota (October 2014)

SELECTED CONFERENCE PRESENTATIONS

1. "Cost-effective decarbonization of California's Power Sector by 2030 With the Aid of Battery Storage", *POWER Conference on Energy Research and Policy*, University of California, Berkeley. (April 2020)
2. "Empirical Assessment of the Appliance-Level Load Shape and Demand Response Potential in India", *Energize- Energy Innovation for a Sustainable World*, India (February 2020)
3. "Economic and Environmental Benefits of Electricity Market Reforms in China", at International Energy Week hosted by the International Energy Agency, Paris (June 2019)
4. "Synergies between Energy Efficiency and Renewable Energy Grid Integration", at 3rd Innovation & Research in Energy Efficiency (INSPIRE) organized by Energy Efficiency Services Limited and the World Bank, New Delhi, India (November 2018)
5. "The 1000 Power Plan Question: Cooling the Planet Sustainably", at Indonesia Energy Efficiency and Conservation Conference & Exhibition in Jakarta Indonesia (September 2018)
6. "Economics of electric buses in India", Conference on Sustainable Public Transport, Organized by the Association of State Road Transport Undertaking and BusWorld, Bangalore, India. (August 2018)

7. "Assessing the Cost-Effective Energy Saving Potential from Top-10 Appliances in India". *9th International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL)*. Irvine, California. (September 2017)
8. "Relationship between Appliance Prices and Energy-Efficiency Standards and Labeling Policies: Empirical Evidence from Residential Air Conditioners". *9th International Conference on Energy Efficiency in Domestic Appliances and Lighting (EEDAL)*. Irvine, California. (September 2017)

SELECTED MEDIA QUOTES

1. [US has eight years to cut its emissions by half. Scientists say there's a way](#), *The Hill* (June 3, 2022)
2. [This is how halving the US's greenhouse gas emissions by 2030 can be done](#), *Sustainability Times* (June 3, 2022)
3. [It's Entirely Possible For The US to Meet Its 2030 Climate Goals. Here's How](#), *Science Alert* (June 3, 2022)
4. [Energy And Environmental Researchers Pooled Their Knowledge To Provide Recommendations To Fulfill The United States' Climate Pledge](#), *Verve Times* (June 3, 2022)
5. [A 50% reduction in emissions by 2030 can be achieved. Here's how](#), *Science Daily* (June 2, 2022)
6. [How U.S. emissions could be cut in half by 2030](#), *Earth.com* (June 2, 2022)
7. [Study shows a 50% reduction in emissions by 2030 can be achieved](#), *Phys.org* (June 2, 2022)
8. [OSW Advocates Urge California to Think Bigger](#), *RTO Insider* (May 18, 2022)
9. [How serious is the threat posed by climate change in India?](#), *Times Now* (December 31, 2021)
10. [A new study shows India can have a more sustainable power system by 2030](#), *Business India* (December 15, 2021)
11. [India's historic lows in clean energy prices to transform power sector](#), *Business Standard* (December 10, 2021)
12. [US study validates Narendra Modi's green energy goal](#), *Hindustan Times* (December 10, 2021)
13. [India's Clean Energy Target Can Be Fulfilled By 2030, Says New Berkeley Study](#), *Republic TV* (December 10, 2021)
14. [India's clean power target will double electricity supply economically if low-cost storage is deployed](#), *PV Magazine* (December 10, 2021)
15. [Booming electric vehicle demand spurs mining, metals sector](#), *S&P Podcast* (May 11, 2021)
16. [Accelerating Clean, Electrified Transportation By 2035](#), *Electrify This!* (April 29, 2021)
17. [EV Cars and Trucks Will Help Consumers Save Money](#), *Assembly Magazine* (April 29, 2021)
18. [Study Suggests Commercial Electric Trucks Will Have Huge Benefits](#), *Inside EVs* (April 24, 2021)
19. [NJ Looks to Boost Heavy-duty Charge Points](#), *RTO Insider* (April 23, 2021)
20. [Report: All new cars and trucks in U.S. could be electric by 2035](#), *Yale Climate Connections* (April 22, 2021)

21. [Add electric vehicles, not bulk transmission, for a low-cost, clean grid: UC Berkeley study](#), *PV Magazine* (April 22, 2021)
22. [Clean energy source: Lithium in the Mojave desert](#), *ABC News* (April 21, 2021)
23. [UC-Berkeley Report Claims Electric Cars Will Save Americans \\$2.7 Trillion, Create 2 Million Jobs](#), *CleanTechnica* (April 20, 2021)
24. [All-electric car and truck sales by 2035 would save \\$2.7 trillion, but will take smart policy to drive clean](#), *Utility Dive* (April 19, 2021)
25. [Washington zooms ahead on EVs](#), *Grist* (April 19, 2021)
26. [An electric vehicle economy requires ambitious policies and investments](#), *The Hill* (April 16, 2021)
27. [Electric cars cheaper than ICE 'within 5 years' – study](#), *Just Auto* (April 16, 2021)
28. [Advances mean all new US vehicles can be electric by 2035, study finds](#), *The Guardian* (April 15, 2021)
29. [Electrifying All New Vehicles Sales by 2035 Can Be Done, Would Save U.S. Consumers \\$2.7 Trillion by 2050, Report Finds](#), *Morning Consult* (April 15, 2021)
30. [All new US vehicles could be required to be electric by 2035, new study says](#), *The Hill* (April 15, 2021)
31. [Daily on Energy: China would have to cut coal carbon emissions in half by 2030 to fulfill pledge](#), *Washington Examiner* (April 15, 2021)
32. [Every new car and truck in the U.S. can be electric by 2035](#), *Fast Company* (April 15, 2021)
33. [The U.S. Can Get to All Electric Vehicles by 2035](#), *Gizmodo* (April 15, 2021)
34. [New study says commercial truck electrification is within reach](#), *Charged* (April 6, 2021)
35. [General Electric Will Surge if Spending Plan Goes Through](#), *Investor Place* (April 1, 2021)
36. [How much more energy will the US need to electrify everything?](#), *Quartz* (March 19, 2021)
37. [Berkeley Lab finds commercial trucking is capable of electrification](#), *The Daily Californian* (March 19, 2021)
38. [Commercial truck electrification is within reach](#), *ScienceDaily* (March 16, 2021)
39. [Nearly as Green in Half the Time](#), *Electrical Contractor* (August 2020)
40. [2-wheeler electrification: challenges and opportunities](#), *The Hindu Business Line* (July 15, 2019)
41. [Heat and the folly of air-conditioners](#), *FountainInk* (July 12, 2019)
42. [Fast-Rising Demand for Air Conditioning Is Adding to Global Warming. The Numbers Are Striking.](#), *Inside Climate News* (November 12, 2018)
43. [One appliance could determine whether India, and the world, meet climate change targets](#), *Los Angeles Times* (Dec 29, 2017)
44. [SBI extends Rs. 2,317 crore for rooftop solar power projects](#), *Outlook India* (October 29, 2017)
45. [The Race against Heat: How do you cool 7.5 billion people on a warming planet?](#), *The Verge* (Sep 14, 2017)
46. [Market round-up: Allocation to India by Asia ex-Japan funds down: EVs can alleviate utilities' financial pain](#), *Mint* (July 26, 2017)

47. [Analysis shows India's EV drive will boost power utilities, increase energy security](#), *TechXplore* (July 18, 2017)
48. [India's EV Drive Will Boost Power Utilities, Increase Energy Security](#), *NewsWise* (July 17, 2017)
49. [World's Hottest Market: Air Conditioners For India And Hundreds Of New Electric Plants To Power Them](#), *Forbes* (March 1, 2017)
50. [Powering up India renewably](#), *Listening Brief* (August 28, 2015)
51. [A smart idea](#), *Down To Earth* (August 17, 2015)

OTHER MEDIA COVERAGE

52. [California pulls key floating wind action plan at last minute to weigh up '50GW by 2045'](#), *RECHARGE* (June 1, 2022)
53. [CEC Postpones Vote on Offshore Wind Goals](#), *RTO Insider* (May 27, 2022)
54. [Study suggests India could economically meet electricity demand through renewables by 2030](#), *Economic Times* (December 10, 2021)
55. [Plummeting Wind, Solar, And Battery Costs Now Enable An 80% Clean Electricity System By 2030](#), *Forbes* (June 10, 2021)
56. [Economics, not climate, is the main driver behind automakers' embrace of electric vehicles](#), *Washington Examiner* (May 20, 2021)
57. [House Republicans raise China specter on EVs](#), *POLITICO* (May 18, 2021)
58. [Exclusive: White House backs 2030 milestone on path to net zero grid](#), *Reuters* (April 26, 2021)
59. [Climate Summit: How Do You Cut 50% of Greenhouse-Gas Emissions by 2030?](#), *The Wall Street Journal* (April 23, 2021)
60. [How The U.S. Could Halve Climate Emissions By 2030](#), *NPR* (April 22, 2021)
61. [The Making of Biden's Superfast Push for Clean Electricity](#), *Bloomberg* (December 10, 2020)
62. [Building Electrical Infrastructure](#), *Public Utilities Fortnightly* (December 2020)
63. [Biden's renewable energy deadline too ambitious says power boss](#), *Financial Times* (November 30, 2020)
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PROFESSIONAL SERVICE

1. Regularly peer reviews articles for academic journals such as *Nature Communications*, *Energy Policy*, *Applied Energy*, *Energy*, *Renewable & Sustainable Energy Reviews*, *Energies*, *Development Engineering*, *Resources, Conservation & Recycling*, *Environmental Research Letters*, *Energy Efficiency*, *Energy Research & Social Sciences*, *Energy Strategy Reviews*, *Energy Economics*, *IOP SciNotes*, *Earth's Future* etc.
2. Reviewer for The World Bank's \$300 million loan program to India for the energy efficiency scale-up
3. Member of the jury for the international energy innovation challenge organized by Energy Efficiency Services Limited (EESL), India in 2018

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