

EMPLOYMENT

Georgetown University School of Foreign Service , Washington, D.C. <i>Adjunct Professor</i> (STIA 402, Clean Energy Innovation)	2016 – Present
Council on Foreign Relations , Washington, D.C. <i>Philip D. Reed Fellow for Science and Technology</i> <i>Acting Director, Program on Energy Security and Climate Change</i> (2016 – 2017)	2015 – Present
McKinsey & Company , San Francisco, CA <i>Senior Associate</i>	2013 – 2015
Office of Mayor Antonio Villaraigosa , Los Angeles, CA <i>Senior Advisor on Energy and Water Policy</i>	2012 – 2013

LEADERSHIP AND AWARDS

- [Forbes, 30 Under 30, Law and Policy](#) (2017)
- [Grist, Top 50 Leaders in Sustainability](#) (2017)
- [Rise, Top 5 Global Thought Leaders in Solar Energy](#) (2017)
- Adjunct Senior Research Scholar, Columbia University Center for Global Energy Policy (2017–)
- Strategic Advisor, Reforming the Energy Vision, Office of NY Gov. Andrew Cuomo (2015–2017)
- Board Member, Stanford University Precourt Institute for Energy Advisory Board (2015–)
- Board Member, Stanford University Woods Institute for the Environment Advisory Board (2015–)
- Council Member, World Economic Forum Global Agenda Council on Urbanization (2013–2014)

EDUCATION

Oxford University , United Kingdom <i>Doctor of Philosophy, Condensed Matter Physics</i> Honors: Rhodes Scholarship	2013
Stanford University , Palo Alto, CA <i>B.S. Engineering Physics, B.A. International Relations</i> Honors: Truman Scholarship, Phi Beta Kappa, Center for International Security and Cooperation	2011

BOOKS

- **V. Sivaram**, [Taming the Sun: Innovations to Harness Solar Energy and Power the Planet](#). MIT University Press, 2018.
- **V. Sivaram (Ed.)**, [Digital Decarbonization: Promoting Digital Innovations to Advance Clean Energy Systems](#), Council on Foreign Relations Press, 2018.
- **V. Sivaram** and S. Saha, “Geopolitical Implications of a Clean Energy Future from the Perspective of the U.S.,” in [The Geopolitics of Renewables](#), Ed. Dan Scholten, Springer, February 2018.

FEATURED ARTICLES, PRESS, AND TALKS

- **Op-Eds/Short-Form:** [The New York Times](#), [The Washington Post](#), [Financial Times](#), [The Wall Street Journal](#)
- **Scholarly/Long-Form:** [Nature](#), [Nature Energy](#), [Nature Climate Change](#), [Energy Policy](#), [Foreign Affairs](#), [Foreign Policy](#), [Scientific American](#), [MIT Technology Review](#), [Issues in Science and Technology](#), [Brookings Institution](#)
- **Book Reviews for Taming the Sun:** [The Economist](#), [Financial Times](#), [Bloomberg](#), [Nature](#), [Foreign Affairs](#)
- **Media Interviews:** (TV): [BBC World News](#), [Bloomberg TV](#), [PBS NewsHour](#); (Radio): [NPR](#), [Marketplace](#)
- **Talks:** [Aspen Ideas](#), [SXSW](#), [TEDx Yale](#), [CFR](#) (Book Launch Video), [Oxford Union](#) (236K views)

PEER-REVIEWED (*) AND OTHER LONG-FORM PUBLICATIONS

(Note: The Council on Foreign Relations (CFR) conducts double-blind peer reviews, with 2–3 reviewers, of its own publications and any external article published under the auspices of an external grant in cases where the publishing journal does not conduct its own peer review.)

V. Sivaram, D.M. Hart, J.O. Dabiri, “[The Need for Continued Innovation in Solar, Wind, and Energy Storage](#),” *Joule*, In Press, 2018.*

D.W. Livingston, **V. Sivaram**, M.C. Freeman, M. Fiege, “[Applying Blockchain Technology to Electric Power Systems](#),” *Council on Foreign Relations Discussion Paper*, July 26, 2018.*

V. Sivaram, “[From Stranger to Status Quo: How Renewable Energy Achieved a Political Coup](#),” *International Politics Reviews*, 2018.

V. Sivaram, “[The Dark Side of Solar: How the rising solar industry empowers political interests that could impede a clean energy transition](#),” Brookings Institution, April 2018.*

V. Sivaram, “[Can’t Stop the Shining](#),” *Foreign Policy*, March 1, 2018.

V. Sivaram, “[The Race to Invent the Artificial Leaf](#),” *MIT Technology Review*, March 2018 Issue.

V. Sivaram, “[A Tale of Two Technologies: What Nuclear’s Past Might Tell Us About Solar’s Future](#),” *Breakthrough Journal*, Winter 2018.

V. Sivaram, “[Trump’s Solar Tariffs Create Far More Winners Than Losers](#),” Columbia University Center for Global Energy Policy Commentary, January 23, 2018.

C.T.M. Clack, S.A. Qvist, J. Apt, M. Bazilian, A.R. Brandt, K. Caldeira, S.J. Davis, V. Diakov, M.A. Handschy, P.D.H. Hines, P. Jaramillo, D.M. Kammen, J.C.S. Long, M.G. Morgan, A. Reed,

V. Sivaram, J. Sweeney, G.R. Tynan, D.G. Victor, J.P. Weyant, and J.F. Whitacre, “[Evaluation of a proposal for reliable low-cost grid power with 100% wind, water, and solar](#),” *Proceedings of the National Academy of Sciences*, 2017.*

D. Sanchez and **V. Sivaram**, “[Saving innovative climate and energy research: Four recommendations for Mission Innovation](#),” *Energy Research and Social Science*, **29**, July 2017.*

V. Sivaram, “[Can India Save the Warming Planet?](#)” *Scientific American*, May 2017 Issue.

V. Sivaram, “[Harnessing International Cooperation to Advance Energy Innovation](#),” Council on Foreign Relations Workshop Report, May 2017.

B.E. Gaddy, **V. Sivaram**, T.B. Jones, and L. Wayman, “[Venture Capital and Cleantech: The Wrong Model for Energy Innovation](#),” *Energy Policy*, **102**, March 2017.*

V. Sivaram, “[Unlocking Energy](#),” *Issues in Science and Technology*, Winter 2017.*

V. Sivaram, T. Norris, C. McCormick, and D. Hart, “[Energy Innovation Policy: Priorities for the Trump Administration and Congress](#),” Information Technology and Innovation Foundation, December 2016.*

V. Sivaram and J. Harris, “[Sustaining Fuel Subsidy Reform](#),” Council on Foreign Relations Center on Geoeconomic Studies Discussion Paper Series, October 2016.*

- R. Verma, D. Hernandez, V. Sivaram, and V. Rai, "[A National Certification Scheme to Enhance Trust and Quality: Residential Solar in India's PV Market](#)," *The Electricity Journal*, **29** (6), July 2016.*
- B.E. Gaddy, **V. Sivaram**, and F.O. Sullivan, "[Venture Capital and Cleantech: The Wrong Model for Energy Innovation?](#)" *MIT Energy Institute*, July 2016.
- V. Sivaram** and T. Norris, "[The Clean Energy Revolution: Fighting Climate Change with Innovation](#)," *Foreign Affairs*, May/June 2016 Issue.
- V. Sivaram** and S. Kann, "[Solar Power Needs a More Ambitious Cost Target](#)," *Nature Energy*, **1** (2016).*
- V. Sivaram** and M. Levi, "[Causes, Consequences, and Policy Implications of Oil Price Volatility](#)," Council on Foreign Relations Workshop Report, June 2016.
- H.J. Snaith, E.J. Crossland, N. Noel, **V. Sivaram**, T. Leijtens, "[Semiconducting Layer Production Process](#)," U.S. Patent Application 14/771, 584, 2016, Publication No. US 20160013434 A1 (published Jan 14, 2016).
- V. Sivaram**, G. Shrimali, and D. Reicher, "[Reach for the Sun: How India's Ambitious Climate Ambitions Could Make or Break its Climate Commitments](#)," Stanford Steyer-Taylor Center on Energy Policy and Finance Report, December 2015.
- V. Sivaram** and M. Levi, "[Automobile Fuel Economy Stanford in a Lower-Oil-Price-World](#)," Council on Foreign Relations Center on Geoeconomic Studies Discussion Paper Series, November 2015.*
- V. Sivaram**, S.D. Stranks, and H.J. Snaith, "[Perovskite Solar Cells Could Beat the Efficiency of Silicon](#)," *Scientific American*, July 2015 Issue.
- V. Sivaram** and M. Levi, "[Oil Prices, Low-Carbon Energy, and Climate Policy](#)," Council on Foreign Relations Workshop Report, July 2015.
- V. Sivaram** and Commissioner Daniel C. Esty. "[Los Angeles and Connecticut: A Continent Apart, Similar Paths to Clean Energy](#)." *EnergyBiz Magazine*. 2014.
- V. Sivaram**, E.J.W. Crossland, T. Leijtens, N. Noel, J.A. Alexander-Webber, P. Docampo, and H.J. Snaith. "[Investigating the Source of Doping in Annealed TiO₂ Mesoporous Single Crystals for Use in Solid State Dye Sensitized Solar Cells](#)." *Journal of Physical Chemistry C*. (2013).*
- V. Sivaram**, J. Kirkpatrick, and H.J. Snaith. "[Critique of Charge Collection Efficiencies Calculated through Small Perturbation Measurements of Dye Sensitized Solar Cells](#)." *Journal of Applied Physics*. **113**, 063709 (2013).*
- Mayor Antonio R. Villaraigosa, **V. Sivaram**, and R. Nichols. "[Powering Los Angeles with Renewable Energy](#)." *Nature Climate Change*. **3**, 1985-1988 (2013).* (*†Corresponding Author*)
- E. Crossland, N. Noel, **V. Sivaram**, T. Leijtens, J.A. Webber, and H.J. Snaith. "[Route to Mesoporous Anatase TiO₂ Single-Crystals Exhibiting Superior Mobility and Enhanced Optoelectronic Device Performance](#)." *Nature*. **495** (2013).*
- V. Sivaram**. "[Combating Climate Change in the Capital of Car Culture](#)." *The Next Generation*. 2013.
- G. Sathoughi, **V. Sivaram**, R.G., P.D., I.B., N.P., A.I., and H.J. Snaith. "[Optimised Electronic Contacts in SnO₂-dye-P3HT based SS Dye Sensitized Solar Cells](#)." *Physical Chemistry, Chemical Physics*. **15**, 2075-2080 (2013).*

P. Docampo, A.I., R.G., S.D., J.K., C.M.P., **V. Sivaram**, H.G., L.S-M., M.W., and H.J. Snaith. “[The Influence of 1D, Meso and Crystal Structures on Charge Transport and Recombination in Solid-State Dye-Sensitized Solar Cells.](#)” *Journal of Materials Chemistry A*. (2013).*

V. Sivaram, “[Simulation, Synthesis, Sunlight: Enhancing electronic transport in solid-state dye-sensitized solar cells.](#)” Oxford University Ph.D. Thesis, 2013.

V. Sivaram. “Sunny-Side Up; Characterizing the US Military’s Approach to Solar Energy Policy.” Honors Thesis. [Center for International Security and Cooperation](#), Stanford University. June 2011.

R. Stancel, **V. Sivaram**. “[Mounting System for Solar Modules.](#)” U.S. Patent Application 12/676, 138, 2008, Publication No. US 2010/0236610 A1 (published Sep. 23, 2010).

SELECTED SHORT-FORM ARTICLES AND OP-EDS

V. Sivaram, *CFR’s Energy, Security, and Climate Blog*, blogs.cfr.org/Sivaram.

D.W. Livingston, **V. Sivaram**, “[Where Blockchain Will Actually Matter in Energy.](#)” *Axios*, July 30, 2018.

V. Sivaram, “[Why the Solar Revolution is at Risk of Sputtering Out.](#)” *Quartz*, June 6, 2018.

V. Sivaram, “[Solar Energy is at Risk.](#)” *Washington Post*, April 16, 2018.

V. Sivaram, “[How U.S. Tariffs Will Hurt America’s Solar Industry.](#)” *New York Times*, Jan 24, 2018, p. A27.

V. Sivaram, “[Trump’s Energy Secretary to Congress: Please Ignore My Boss.](#)” *Axios*, March 21, 2018.

M. Freeman, M. Bazilian, and **V. Sivaram**, “[Trump Teases Reasonable Energy Policy.](#)” *The American Interest*, December 23, 2017.

V. Sivaram and M. Freeman, “[Why Is Trump’s Energy Department Lumping Coal and Nuclear Together?](#)” *Foreign Affairs*, November 13, 2017.

V. Sivaram, “[Technology: Disruption Needed.](#)” *Climate 2020: United Nations Association-United Kingdom*, September 18, 2017.

V. Sivaram, “[A Clean Energy Transition Needs More Technology Options.](#)” The Aspen Institute, June 19, 2017.

D.L. Sanchez and **V. Sivaram**, “[Mission Innovation is in Trouble. Here’s How to Save It.](#)” *Greentech Media*, June 2, 2017.

V. Sivaram and S. Saha, “[America’s Real Pivot to Asia Needs to be Energy.](#)” *The National Interest*, May 21, 2017.

V. Sivaram and S. Saha, “[Power Outage: Cutting Funding for Energy Innovation Would Be a Grave Mistake.](#)” *Foreign Affairs*, May 17, 2017.

- V. Sivaram, "[California must adopt the electrical grid of the future](#)," *San Francisco Chronicle*, December 30, 2016.
- V. Sivaram and S. Saha, "[The Trouble with Ceding Climate Leadership to China](#)," *Foreign Affairs*, December 20, 2016.
- V. Sivaram, C. McCormick, and D. Hart, "[Focus, Reform, Invest: Energy Innovation Agenda for Trump, Congress](#)," *Morning Consult*, December 16, 2016.
- V. Sivaram and S. Saha, "[What to Watch at the Marrakech Climate Conference](#)," *Council on Foreign Relations Expert Brief*, November 2, 2016.
- V. Sivaram and J. Harris, "[Why Sustaining Fuel Subsidy Reform Should Be a Top U.S. Priority](#)," *Politico*, October 15, 2016.
- V. Sivaram, "[Good Intentions Don't Equal Good Climate Policy](#)," United Nations Association-United Kingdom "Climate 2020" Publication, September 14, 2016.
- B. Gaddy and V. Sivaram, "[Clean Energy Technology Investors Need Fresh Support After VC Losses](#)," *Financial Times*, July 26, 2016.
- V. Sivaram, "[Don't Weaken Obama's Fuel Economy Standards](#)," *Politico*, July 22, 2016.
- V. Sivaram and G. Pugh, "[New International Energy Forum Focuses on Innovation](#)," *The Hill*, July 6, 2016.
- V. Sivaram, "[Beyond Climate Confusion: Why Both Energy Innovation and Deployment Matter](#)," reprinted in the *New York Times* (originally posted on [CFR's Energy, Security, and Climate Blog](#)), May 6, 2016.
- V. Sivaram and S. Kann, "[To Become Truly Mainstream, Solar Will Need to Cost 25 Cents per Watt by 2050](#)," Greentech Media, April 7, 2016.
- V. Sivaram, "[The Supreme Court's Decision on Demand Response is More Complicated than You Think](#)," Greentech Media, February 1, 2016.
- K. Rogoff, B. Eichengreen, V. Sivaram, J. Pethokoukis, and R. Kahn, "[Prospects for the Global Economy in 2016](#)," *The Atlantic*, Jan 4, 2016.
- V. Sivaram and A. Shivnani, "[India Warms Up to Climate Action](#)," Council on Foreign Relations Expert Brief, November 19, 2015.
- V. Sivaram, "[U.S. Climate Policies Get a Papal Nod](#)," Council on Foreign Relations Expert Brief, September 28, 2015.
- V. Sivaram, "[Oil's Downward Spiral is Spooking Renewable Energy Investors](#)," *Fortune*, September 5, 2015.
- V. Sivaram, "[Why Concentration of the Solar Industry in China Will Stunt Innovation](#)," *Corporate Eco Forum*, July 2015.
- V. Sivaram, M. Levi, "[Oil Prices, Low-Carbon Energy, and Climate Policy](#)," Council on Foreign Relations Workshop Report, July 2015.
- V. Sivaram, "[To Succeed, Solar Perovskites Need to Escape the Ivory Tower](#)," Greentech Media, July 2, 2015.

- V. Sivaram and D. Livingston, "[Leading From Between: How California and Germany Can Fix the Climate Agenda](#)," *Foreign Affairs*, June 23, 2015
- V. Sivaram, "[Ensuring Tesla Doesn't Crowd Out the Batteries of the Future](#)," *Forbes*, April 30, 2015
- V. Sivaram, "[Japan's Unnecessary Power Struggle: Nuclear vs. Solar](#)," Council on Foreign Relations Expert Brief, April 24, 2015.
- V. Sivaram, "[Congress Shouldn't Cut Military Research on Climate Change](#)," *The Hill*, March 27, 2015.
- V. Sivaram, "[Why Moore's Law Doesn't Apply to Cleantech](#)," Greentech Media, April 27, 2015
- V. Sivaram and K. Dhru. "[Can Solar Solve India's Energy Woes?](#)" *World Economic Forum Blog*. 2014.

SELECTED MEDIA REFERENCES

Each third-party media report below is entirely or substantially about research by Varun Sivaram and co-authors

"[Hope and Heresy as Blockchains Enter the Energy Business](#)," *The Economist*, August 2, 2018, Print.

[Book Review of *Taming the Sun*]: "[The Achilles' Heel of the Renewable Revolution](#)," *Fareed Zakaria GPS*, on CNN.

[Book Review of *Taming the Sun*]: "[Rays of Hope: The Future of Solar Energy](#)," *The Economist*, March 31, 2018 Issue.

[Book Review of *Taming the Sun*]: E. Crooks, "[A Road Map to Lead the Energy Industry to a Brighter Future](#)," *Financial Times*, March 19, 2018.

[Book Review of *Taming the Sun*]: Tyler Cowen, "[Solar's Bright Future is Further Away Than It Seems](#)," *Bloomberg View*, January 2, 2018.

[Book Review of *Taming the Sun*]: Richard Cooper, "[Review of Taming the Sun](#)," *Foreign Affairs*, May/June 2018.

J. Worland, "[Inside the New Technology that Could Transform the Solar Industry](#)," *TIME*, June 4, 2018.

C. Marshall, "[Q&A with the Hamilton of the Solar Industry](#)," April 6, 2018.

"[Switching to Renewables Will Not Be As Rapid As Many Hope](#)," *The Economist*, March 15, 2018 (Print).

B. Geman, "[What's Needed for Solar to Power the World](#)," *Axios*, March 5, 2018.

C. Mims, "[The Three Stumbling Blocks to a Solar-Powered Nation](#)," *Wall Street Journal*, January 14, 2018.

R. Matsui, "[Varun Sivaram: The Hamilton of the Solar Industry](#)," *PV Magazine*, August 1, 2017.

E. Porter, "[Fisticuffs Over the Route to a Clean-Energy Future](#)," *New York Times*, June 20, 2017.

A. Sider, "[Why Venture Capitalists Abandoned Clean Energy](#)," Interview with Ben Gaddy and Varun Sivaram, *The Wall Street Journal*, September 13, 2016.

- A. Revkin, “[Young Analysts Press the Case for Innovation and Tolerance, in Pursuing a Post-Carbon Energy Menu](#),” *New York Times*, May 6, 2015.
- D. Roberts, “[Here’s a sign of a more constructive debate on clean energy innovation](#),” *Vox*, April 20, 2016.
- B. Plumer, “[How Cheap Does Solar Have to Get Before It Takes Over the World?](#)” *Vox*, April 18, 2016.
- R. Zhong, “[How India’s Solar Ambitions Can Become Reality](#),” *Wall Street Journal*, December 8, 2015.
- R. Mohan, “[India’s Solar Goals a Global Priority, Says Stanford Report](#),” *Economic Times*, December 9, 2015.
- K. Krishnamurthy, “[Meet Varun Sivaram, the Stanford graduate who believes in India's solar energy story](#),” *Economic Times*, November 17, 2015.
- B. Plumer, “[Why Strict Fuel Economy Rules Still Make Sense—Even When Oil’s Cheap](#),” *Vox*, November 2, 2015.
- R. Salam, “[Subsidizing Old Cleantech can Stymie New Cleantech](#),” *National Review*, July 1, 2015.

SELECTED MEDIA APPEARANCES

- “[Varun Sivaram on BBC Impact with Yalda Hakim: A Conversation About His New Book, *Taming the Sun*](#),” BBC World News, June 18, 2018.
- “[The Importance of Innovation in Renewable and Digital Energy Technologies](#),” *Forbes Podcast*, June 6, 2018.
- “[The Potential of Solar Energy and How to Harness It](#),” *CBS This Morning Podcast*, May 15, 2018.
- “[Crossing the Solar Energy Finish Line](#),” *The Brian Lehrer Show on WNYC*, April 16, 2018.
- “[How Solar Energy Can Rise to Dominance](#),” *KQED Forum on NPR*, April 4, 2018.
- “[Bloomberg Markets: Innovations to Harness Solar Energy](#),” *Bloomberg Radio*, March 28, 2018.
- “The Future of Solar Energy,” *CBS This Morning Podcast*, March 28, 2018.
- “[How Solar Can Become the World’s Dominant Source of Energy—or How It Can Stall](#),” Greentech Media The Interchange Podcast, February 19, 2018.
- “[What Tariffs Mean for the Solar Industry](#),” *Here and Now (carried by National Public Radio)*, January 23, 2018.
- “[U.S. Solar Dispute: Trump Faces a Decision](#),” Columbia Energy Exchange Podcast, November 20, 2017.
- “[In Remote Kenyan Villages, Solar Startups Bring Light](#),” *PBS Newshour*, November 22, 2017. [Includes footage of Prof. Varun Sivaram’s class at Georgetown University at timestamp 3:55]
- “[U.S. Solar Dispute: Trump Faces a Decision](#),” *Columbia University Energy Exchange Podcast*, November 20, 2017.
- “[Renewables in the Trump Era: Doomed or Too Big to Fail?](#)” *National Public Radio: Trump on Earth Podcast*, August 14, 2017.

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[“Energy and Climate Challenges Facing Trump’s Secretary of State Nominee Rex Tillerson,”](#) *BBC World News*, January 11, 2017.

[Interview in Spanish] [“Las Relaciones Exteriores de los Estados Unidos Bajo Trump,”](#) NTN 24, December 19, 2017 [27:00–33:30].

[“How Will Trump’s Secretary of State Rex Tillerson Conduct U.S. Foreign Policy?”](#) *BBC World News*, December 13, 2016.

[“Where Clinton and Trump Stand on Climate Change,”](#) *National Public Radio: The Allegheny Front*, October 7, 2016 (Interview with Reid Frazier).

[“U.S. and India Share the Same Strategic Aims,”](#) *CNBC*, September 1, 2016.

[“Cleantech Venture Capital is Dead,”](#) *Greentech Media Podcast: The Interchange*, August 1, 2016.

[“The Clean Energy Revolution,”](#) *Foreign Affairs Focus*, June 27, 2016.

[“Sivaram: Green Tech’s Death Valley,”](#) Bloomberg Radio, June 7, 2016 (interview with Tom Keene).

[“India’s Energy Infrastructure Needs,”](#) *Marketplace Tech*, June 6, 2016 (interview with Ben Johnson).

[“India, Still Poor, Insists on Its Full Serving of Energy,”](#) *National Public Radio*, December 1, 2015.

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[“Perovskites Are a Big Breakthrough for the Solar Industry, Expert Says,”](#) *Bloomberg Radio*, “Taking Stock with Kathleen Hays,” August 5, 2015 (Interview with Kathleen Hays).

[“Solar Power Still Needs to Get Much Cheaper. Are Perovskites the Answer?”](#) *Vox*, July 1, 2015.

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SELECTED TALKS AND VIDEOS

[“Why Solar Needs Innovation to Realize Its Potential,”](#) *Taming the Sun* Launch Video, **Council on Foreign Relations**, 2018.

[“We’re Doomed If Solar Energy Stalls—Here’s How to Keep It Rising,”](#) **TEDx** Talk at Yale University, 2018.

[“Taming the Sun: Innovations to Harness Solar Energy and Power the Planet,”](#) **Stanford University Precourt Institute for Energy**, April 2, 2018.

- [“*Taming the Sun Launch Event*,”](#) **Council on Foreign Relations**, with Richard Haass, March 29, 2017.
- [“*Taming the Sun Launch Event*,”](#) **Center for Strategic and International Studies**, March 16, 2017.
- [“*Innovations to Harness Solar Energy*,”](#) **SXSW**, Austin, March 12, 2018.
- [“*Voices of Innovation: The Future of Solar Energy*,”](#) **IHS CERAWeek**, Houston, March 8, 2018.
- [“*Taming the Sun: Innovations to Harness Solar Energy and Power the Planet*,”](#) **Harvard University Kennedy School of Government**, March 5, 2018.
- [“*Keynote Address: A Clean Energy Transition*,”](#) **Massachusetts Institute of Technology**, MIT Energy Conference, March 2, 2018.
- [“*The Future of the Global Solar Industry*,”](#) **National University of Singapore**, November 20, 2017.
- [“*Thirty Years of Climate Change: What Will the Next Three Decades Bring?*”](#) **Aspen Ideas Festival**, June 28, 2017.
- [“*Sustainable Energy Expansion in Turkey and the Broader Region*,”](#) **Atlantic Council Istanbul Summit**, April 28, 2017.
- [“*Solar Power and Clean Energy Innovation*,”](#) **Council on Foreign Relations**, New York, January 24, 2017.
- [“*How Cities are Using Technology to Confront Environmental Challenges*,”](#) **Wharton School of Finance**, San Francisco, October 18, 2016.
- [“*Gulf Economic Update: Energy Investment in a Low-Oil-Price Era*,”](#) *Foreign Affairs Live*, October 5, 2016.
- [“*The U.S.-India Strategic Partnership: Accelerating a Clean Energy Future*,”](#) **Atlantic Council**, Washington, D.C., September 12, 2016.
- [“*Oil Market Futures: The Policy and Politics Shaping Twenty-First Century Energy*,”](#) **Carnegie Endowment for International Peace**, Washington D.C., June 28, 2016.
- [“*Solar Technology Innovation: Predicting the Next Big Thing*,”](#) **Greentech Media Solar Summit**, Scottsdale, Arizona, May 2016.
- [“*Investing in Innovation to Implement Paris Climate Agreement*,”](#) **Civic-Exchange**, Hong Kong, April 2016.
- [“*Investing in Clean Energy Innovation*,”](#) Keynote, **Middle East Electricity Summit**, Dubai, UAE, Mar. 2016.
- [“*Innovative Technologies for a Modern Power Sector: Lessons from the United States*,”](#) **Observer Research Foundation**, Delhi; IIS Bangalore; IIT Madras; CPPR, Kerala; November, 2015.
- [“*The Future of Solar Energy*,”](#) **Columbia Center on Global Energy Policy**, October 20, 2015.
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