VARUN SIVARAM, PH.D.

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SUMMARY: One of the world's foremost experts in clean energy technology, with experience across corporate, public, & academic sectors: senior advisor to the Biden-Harris admin, CTO of a multibillion-dollar firm, physicist, professor, author.

FULL-TIME EMPLOYMENT

Biden-Harris Administration, Office of the Special Presidential Envoy for Climate …….. 2021 – Present
Senior Advisor to Sec. John Kerry; Senior Director for Clean Energy, Innovation, and Competitiveness

Columbia University, SIPA Center on Global Energy Policy, New York, NY…….. 2020 – Present
Director, Global Energy Innovation Initiative; Senior Research Scholar, SIPA

ReNew Power Limited, New Delhi, India……. 2018 – 2020
Chief Technology Officer

Council on Foreign Relations, Washington, D.C. ……. 2015 – 2018
Director, Program on Energy & Climate; Philip Reed Fellow for Science and Technology

McKinsey & Company, San Francisco, CA…… 2013 – 2015
Senior Associate

Office of Mayor Antonio Villaraigosa, Los Angeles, CA…….. 2012 – 2013
Senior Advisor on Energy and Water Policy

RECENT APPOINTMENTS, BOARD SERVICE, TEACHING, & CONSULTING

- Board of Directors, Peridot Acquisition Corp. (Publicly listed, NYSE: PDAC)…….. 2020 – Present
- Sr. Advisor, Camus Energy • Sr. Advisor, Radia, Inc. • Sr. Advisor, Greenpoint Partners…….. 2020 – Present
- Adjunct Professor, Georgetown University School of Foreign Service……..…..…..…... 2016 – 2018
- Board Member, Stanford University Energy and Environment Institutes……..…….…… 2015 – Present
- Council Member, World Economic Forum Global Future Council on Energy Transition…….. 2020 – Present
- Advisor to 2021 COP26 Climate Conference (One of 25 global "Friends of COP") …….. 2020 – Present
- Strategic Advisor on Energy, Office of New York Governor Andrew Cuomo…….…….. 2015 – 2017

BOOKS

- **V. Sivaram**, *Taming the Sun: Innovations to Harness Solar Energy and Power the Planet*. MIT Press, 2018.
- **V. Sivaram** et al., *Energizing America: A Roadmap to Launch a Nat'l Energy Innovation Mission*. Columbia CGEP, 2020.
- **V. Sivaram (Ed)**, *Digital Decarbonization: Promoting Digital Innovations to Advance Clean Energy Systems*, CFR Press, 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*, *Joule*, *Energy Policy*, *Foreign Affairs*, *Foreign Policy*, *Scientific American*, *MIT Technology Review*, *Issues in Science and Technology*, *Brookings Institution*, *Journal of Applied Physics*
- **Media Reviews of my Books**: *The Economist*, *Financial Times*, *Bloomberg*, *Nature*, *Foreign Affairs*, *Vox*, *Bloomberg*
- **Media Interviews**: (**TV**): *BBC World News*, *CNN(1)*, *CNN(2)*, *Bloomberg*, *PBS NewsHour*; (**Radio**): *NPR*, *Marketplace*
- **Talks**: TED (1 million+ views), CFR, Aspen Ideas, SXSW, CERAWeek, Nobel Institute, TEDx, Oxford Union

EDUCATION

Oxford University, United Kingdom — ***Doctor of Philosophy, Condensed Matter Physics***

Stanford University, Palo Alto, CA — ***B.S. Engineering Physics, B.A. International Relations, Honors CISAC***

SELECTED AWARDS

- *TIME Magazine* 100 Next hundred most influential people in the world • *Grist*, Top 50 Leaders in Sustainability *Forbes Magazine* 30 Under 30, Law and Policy • *PV Magazine*, "The Hamilton of the Solar Industry"
- Rhodes Scholarship • Truman Scholarship

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PUBLICATIONS, PRESS, & TALKS

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

V. Sivaram, M. Bowen, N. Kaufman, D. Rand, "To Bring Emissions-Slashing Technologies to Market, the United States Needs Targeted Demand-Pull Innovation Policies," Columbia University Center on Global Energy Policy, Jan. 2021.

V. Sivaram, C. Cunliff, D.M.Hart, J. Friedmann, and D. Sandalow, *Energizing America: A Roadmap to Launch a National Energy Innovation Mission*, Columbia University Center on Global Energy Policy, 2020. ISBN: 978-0578758527.*

V. Sivaram, "The American Recovery & Reinvestment Act and the Rise of Utility-Scale Solar Photovoltaics: How U.S. Public Policy During the Great Recession Launched a Decade-Long Solar Boom," American Energy Innovation Council and Bipartisan Policy Center, 2020.

V. Sivaram, "Toward a Solar-Powered Grid: Four Ways to Make Electric Power Systems More Flexible to Integrate Intermittent Renewable Energy," Emirates Center for Strategic Studies and Research, 2019.

V. Sivaram, N. Kaufman, "Policy Design for the Next Generation of U.S. Federal Clean Electricity Tax Credits," Columbia University Center for Global Energy Policy, June 2019.*

V. Sivaram, "Without More Government Support for R&D, Solar Power's Future Looks Cloudy," *IEEE Spectrum Magazine*, May 2019.

V. Sivaram, D.M. Hart, J.O. Dabiri, "The Need for Continued Innovation in Solar, Wind, and Energy Storage," *Joule*, **2**, September 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 (Ed.), *Digital Decarbonization: Promoting Digital Innovations to Advance Clean Energy Systems*, CFR Press, 2018. ISBN: 978-0876097489.

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, *Taming the Sun: Innovations to Harness Solar Energy and Power the Planet*, MIT Press, 2018. ISBN: 978-0262037686.*

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 Losers Than Winners," Columbia University Center for Global Energy, 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.

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 TiO_2 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 TiO_2 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. Sadhoughi, **V. Sivaram**, R.G., P.D., I.B., N.P., A.I., and H.J. Snaith. "Optimised Electronic Contacts in SnO_2-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." Center for International Security and Cooperation, Stanford University. June 2011.

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).

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, C. Cunliff, J. Friedmann, "To confront the climate crisis, the US should launch a National Energy Innovation Mission," *MIT Technology Review*, September 15, 2020.

V. Sivaram, "The Next Phase of India's Renewable Energy Transition," Aspen Institute, May 28, 2020.

V. Sivaram, N. Kaufman, "Updating clean energy tax credits could help commercialize new tech," *Axios*, June 3, 2019.

V. Sivaram, M. Levi, *CFR's Energy, Security, and Climate Blog*, 2015–2018.

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

[Book Review of *Energizing America*]: L. Kaufman, "This Is How the Government Can Ramp Up Climate Tech Investment," Bloomberg, October 5, 2020.

[Book Review of *Energizing America*]: D. Roberts, "We have to accelerate clean energy innovation to curb the climate crisis. Here's how," *Vox*, September 16, 2020.

[Book Review of *Energizing America*]: J. Siegel and A. Smith, "The case for tripling federal spending on energy innovation," *Washington Examiner*, September 15, 2020.

[Book Review of *Energizing America*]: D. Iaconangelo, "Researchers Urge Federal Moonshot for Clean Energy," *Scientific American*, September 17, 2020.

A. Harder, "How to Judge America's Climate-Change Responsibility," *Axios*, Dec. 18, 2020.

"Physicist Dr Varun Sivaram on sustainability, his new projects, and more," *ELLE Magazine*, June 17, 2020.

"As Renewable Energy Subsidies Expire, Experts Advocate Tax Credits," *Scientific American*, June 4, 2019.

"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

"Climate Experts Discuss US Withdrawal from Paris Agreement," Interview with ABC News, November 1, 2020.

"Global Energy Challenge: COVID-19," *CNN*, Interview with John Defterios, July 2020.

"Taming the Sun in India's Power Sector, with Varun Sivaram," Interview with Daniel Raimi, Resources Radio, August 11, 2020.

"Global Energy Challenge: India," *CNN*, Interview with John Defterios, July 2019.

"Blockchain in the Energy Sector," Center for Strategic and International Studies Energy360 Podcast, October 2018.

"Varun Sivaram on BBC Impact with Yalda Hakim: A Conversation About His New Book, *Taming the Sun*," BBC World News, June 18, 2018.

"30 Under 30 Varun Sivaram Warns That Without Innovation, Solar Power Will Flounder," *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.

"Bloomberg Daybreak: Why Trump's Exit from Paris is an 'Unmitigated Disaster," Bloomberg TV, June 2, 2017.

"All Things Considered: China Poised to Fill Leadership Void on Climate Policy—With Economic Incentives," *National Public Radio*, April 2, 2017.

"Clean Energy Politics: Can You Dig Clean Coal?" *Australian Broadcasting Corporation,* "Late Night Live with Philip Adams" (broadcast across Australia), February 13, 2017.

"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.

"How Cheap can Solar Get?" The Interchange Podcast on *Greentech Media*, September 22, 2015.

"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.

"How Los Angeles is Moving Toward Energy Independence." *CNBC Asia: The Call.* Dalian, China. 2013.

SELECTED TALKS AND VIDEOS

"India's Historic Opportunity to Industrialize Using Clean Energy," **TED Talk**, October 10, 2020. **[1 million+ views]**

"Energizing America: Global Launch," [Book Launch with Rep. Kathy Castor (D-FL), Fmr. US Dep. Secretary of Energy Dr. Elizabeth Sherwood-Randall, and fmr. BP CEO Lord John Browne], **NYC Climate Week**, Sep 2020**.**

"A Corporate Perspective on International Clean Energy Innovation," [Keynote Address] **Mission Innovation Annual Ministerial Meeting**, New Delhi, November 4, 2019.

"The Next Chapter in Energy," [Panel with Senator Jeff Merkley (D-OR)], **Aspen Ideas Festival**, June 28, 2019.

"A Roadmap for the Global Energy Transition," Lecture at the Nobel Institute, Oslo, Norway, February 14, 2019.

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"Why Solar Needs Innovation to Realize Its Potential," *Taming the Sun* Launch, **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," **Massachussetts 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.

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"Solar Technology Innovation: Predicting the Next Big Thing," **GTM 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.

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"This House is Proud to be Patriotic." Opening Speech, **Oxford Union** Debate, 2013.

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