# Curriculum Vitae

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**JAMES A. EDMONDS**

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| Pacific Northwest National Laboratory  Joint Global Change Research Institute  College Park, Maryland 20740-2496 | College Park Professor of Public Policy  University of Maryland,  College Park, MD 20740-2496 |

## Education

B.S. Economics, Kalamazoo College, Kalamazoo, Michigan 1969

M.S. Economics, Duke University, Durham, North Carolina 1972

Ph.D. Economics, Duke University, Durham, North Carolina 1974

## Research Interests, Expertise, and Leadership

Dr. Edmonds has focused on the interactions between energy, technology, policy, and the integrated assessment of global change. He has written several books on the subject of global change, including ***Global Energy Assessing the Future***, with John Reilly (Oxford University Press). His book with Don Wuebbles, ***A Primer on Greenhouse Gases***, won the scientific book of the year award at the Lawrence Livermore National Laboratory. His most recent work includes research to better understand interactions between energy, economy, water, land and physical Earth systems.

Dr. Edmonds founded the Global Change Assessment Modeling (GCAM) team, one of only a handful of interdisciplinary modeling and research teams in the world capable of addressing questions that include energy, economy, land, water and physical Earth system interactions at spatial scales that range from local to global, time scales that range from annual to century, and sectoral scales that range from individual technologies to the global economic system, all in a fully resolved system that is coupled in code. GCAM and the GCAM ecosystem of models represent a major national and international resource for conducting cutting edge scientific research and informing decisions by national, local, and international government bodies as well as in the private sector.

Dr. Edmonds served in the capacity of Lead Author on every major IPCC assessment to date and currently the IPCC Sixth Assessment Report. He has served on numerous committees, panels and advisory boards related to energy, technology, the economy, and climate change. Dr. Edmonds cumulative scientific contributions were recognized by the U.S. Department of Energy’s Office of Science with a BER50 award in 1997 and Fellow of the American Association for the Advancement of Science in 2007. In 2010 he was promoted to the Pacific Northwest National Laboratory’s highest research rank, Battelle Fellow. In 2014 he became College Park Professor of Public Policy at the University of Maryland.

Dr. Edmonds’ scientific impact is well represented by his publication and citation record. He has more than 300 publications including more than 100 journal articles, 65 peer-reviewed conference papers and book chapters, 20 IPCC Chapters and Special Reports, three books and 50 reports, and has been a Lead Author on 10 IPCC Assessment Chapters. His publications have more than 33,000 citations, an H-index of 71, an i100-index of 57 and an i10-index of 209 (Google Scholar). He is author on five papers with more than 1,000 citations each. He has given hundreds of invited presentations at national and international scientific conferences, workshops, research institutions, and universities.

Dr. Edmonds leads the Implications of Paris and Global Technology Strategy Projects, which bring together experts from the research, public, private, NGO and finance communities to improve understanding of issues associated with implementing the Paris Agreement of 2015.

## Experience

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| **2014-present** | College Park Professor of Public Policy, University of Maryland at College Park |
| **1986-present** | Pacific Northwest National Laboratory (PNNL),  (Battelle Fellow and Chief Scientist, 2005-present) |
| **1978-1986** | Scientist, Institute for Energy Analysis, Oak Ridge Associated Universities (Director, Washington, D.C. Office, 1984-1986). |
| **1974-1978** | Assistant Professor and Chairman of the Economics and Management Department, Centre College of Kentucky. |
| **1972-1974** | Assistant Professor of Economics, Greensboro College. |

## Books

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| Wuebbles, D. and **Edmonds, J**. 1991. A Primer on Greenhouse Gases, Lewis Publishers, Chelsea, Michigan. |
| **Edmonds, J**. and J. Reilly. 1985. Global Energy: Assessing the Future, Oxford University Press, New York. 1985. |
| Economic and Environmental Impacts of a Nuclear Moratorium, MIT Press, Cambridge, MA 1979. |

## Papers

**2020 papers**

Calvin, Katherine V., Bryan Mignone, Haroon Kheshgi, Abigail C. Snyder, Pralit L. Patel, Marshall A. Wise, Leon E. Clarke, and **James A. Edmonds**. "Global market and economic welfare implications of changes in agricultural yields due to climate change." Climate Change Economics 11, no. PNNL-ACT-SA-10398 (2020).

Roelfsema, Mark, Heleen L. van Soest, Mathijs Harmsen, Detlef P. van Vuuren, Christoph Bertram, Michel den Elzen, Niklas Höhne, Gabriela Iacobuta, Volker Krey, Elmar Kriegler, Gunnar Luderer, Keywan Riahi, Falko Ueckerdt, Jacques Després, Laurent Drouet, Johannes Emmerling, Stefan Frank, Oliver Fricko, Matthew Gidden, Florian Humpenöder, Daniel Huppmann, Shinichiro Fujimori, Kostas Fragkiadakis, Keii Gi1, Kimon Keramidas, Alexandre C. Köberle, Lara Aleluia Reis, Pedro Rochedo, Roberto Schaeffer, Ken Oshiro, Zoi Vrontisi, Wenying Chen, Gokul C. Iyer, **Jae Edmonds**, Maria Kannavou, Kejun Jiang, Ritu Mathur, George Safonov and Saritha Sudharmma Vishwanathan.

"Taking stock of national climate policies to evaluate implementation of the Paris Agreement." Nature Communications 11, no. 1 (2020): 1-12.

Waldhoff, Stephanie T., Ian Sue Wing, Robert Beach, Yongxia Cai, Kathryn Daenzer, Xiaolin Ren, Jefferson Cole, Yiyun Cui, **Jae Edmonds**, Jill Horing, Page Kyle, Jia Li, Robert Link, Kate Shouse, Marshall Wise. 2019. "Understanding the sensitivity of agricultural outcomes to uncertainties in climate change impacts: results of the Latin America Modeling Project." Accepted for publication in *Environmental Research Letters*. PNNL-SA-139293.

Neal T. Graham, Mohamad I. Hejazi, Min Chen, Evan G. R. Davies, **James A. Edmonds**, Son H. Kim, Sean W.D. Turner, Xinya Li, Chris R. Vernon, Katherine Calvin, Fernando Miralles-Wilhelm, Leon Clarke, Page Kyle, Robert Link, Pralit Patel, Abigail C. Snyder, Marshall A. Wise. Humans drive future water scarcity changes across all Shared Socioeconomic Pathways. Accepted for publication in Environmental Research Letters.

Roelfsema, Mark, Heleen L. van Soest, Mathijs Harmsen, Detlef P. van Vuuren, Christoph Bertram, Michel den Elzen, Niklas Höhne, Gabriela Iacobuta, Volker Krey, Elmar Kriegler, Gunnar Luderer, Keywan Riahi, Falko Ueckerdt, Jacques Despres, Laurent Drouet, Johannes Emmerling, Stefan Frank, Oliver Fricko, Matthew Gidden, Florian Humpenöder, Daniel Huppmann, Shinichiro Fujimori, Kostas Fragkiadakis, Keii Gi, Kimon Keramidas, Alexandre C. Köberle, Lara Aleluia Reis, Pedro Rochedo, Roberto Schaeffer, Ken Oshiro, Zoi Vrontisi, Wenying Chen, Gokul C. Iyer, **Jae Edmonds**, Maria Kannavou, Jiang Kejun, Ritu Mathur, George Safonov, Saritha Sudharmma Vishwanathan. 2020. “Taking stock of climate policies: future impact of national policies in the context of the Paris Agreement climate goals,” *Nature Communications,*11:2096 | <https://doi.org/10.1038/s41467-020-15414-6>

Felipe Feijoo & Gokul Iyer & Matthew Binsted & **James Edmonds**. 2020. US energy system transitions under cumulative emissions budgets. *Climatic Change*. <https://doi.org/10.1007/s10584-020-02670-0>

Binsted M.T., G.C. Iyer, **J.A. Edmonds**, A. Vogt-Schilb, L. Arguello Cuervo, A. Cadena, and R. Delgado Cadena, et al. 2019. "Stranded Asset Implications of the Paris Agreement in Latin America and the Caribbean." Forthcoming *Environmental Research Letters*. ERL-107213.R1, PNNL-SA-141669.

Hilaire, Jérôme, Jan C. Minx, Max Callaghan, **Jae Edmonds**, Gunnar Luderer, Gregory F. Nemet, Joeri Rogelj, and Maria del Mar Zamora. Negative emissions and international climate goals - Learning from and about mitigation scenarios. *Climatic Change*. https://doi.org/10.1007/s10584-019-02516-4. PNNL-ACT-SA-10357.

**2019 papers**

Calvin K.V., P.L. Patel, L.E. Clarke, G.R. Asrar, B. Bond-Lamberty, A. Di Vittorio, and **J.A. Edmonds**, et al. 2019. "GCAM v5.1: Representing the linkages between energy, water, land, climate, and economic systems." *Geoscientific Model Development*. PNNL-SA-137098

Feijoo F., B. Mignone, H. Kheshgi, C.A. Hartin, H.C. McJeon, and **J.A. Edmonds**. 2019. "Climate and carbon budget implications of linked future changes in CO2 and non-CO2 forcing." *Environmental Research Letters*. PNNL-ACT-SA-10335. doi:10.1088/1748-9326/ab08a9

Iyer G.C., M.T. Binsted, **J.A. Edmonds**, and F. Feijoo. 2018. "United States energy system transitions under cumulative emissions budgets." *Climatic Change*. PNNL-ACT-SA-10320.

Krey, V., Guo, F., Kolp, P., Zhou, W., Schaeffer, R., Awasthy, A., Bertram, C., de Boer, H.S., Fragkos, P., Fujimori, S. and He, C., Gokul Iyer, Kimon Keramidas, Alexandre C. Koberle, Ken Oshiro, Lara Aleluia Reis, Bianka Shoai-Tehrani, Saritha Vishwanathan, Pantelis Capros, Laurent Drouet, **James A. Edmonds**, Amit Garg, David E.H.J. Gernaat, Kejun Jiang, Maria Kannavou, Alban Kitous, Elmar Kriegler, Gunnar Luderer, Ritu Mathur, Matteo Muratori, Fuminori Sano, Detlef P. van Vuuren. 2019. Looking under the hood: A comparison of techno-economic assumptions across national and global integrated assessment models. *Energy*, *172*, pp.1254-1267. PNNL-ACT-SA-10389

Santos da Silva, Silvia R., Fernando Miralles-Wilhelm, Raul Muñoz-Castillo, Leon E. Clarke, Caleb J. Braun, Alison Delgado, **James A. Edmonds**, Mohamad Hejazi, Jill Horing, Russell Horowitz, Page Kyle, Robert Link, Pralit Patel, Sean Turner, and Haewon C. McJeon. 2019. The Paris pledges and the energy-water-land nexus in Latin America: Exploring implications of greenhouse gas emission reductions. *PLoS ONE* 14(4): e0215013. <https://doi.org/10.1371/journal.pone.0215013>. PNNL-SA-136697

Santos Da Silva S., H.C. McJeon, F.R. Miralles-Wilhelm, L.E. Clarke, A. Delgado, **J.A. Edmonds**, and M.I. Hejazi, et al. 2018. "Energy-Water-Land Nexus in Latin America and the Caribbean." *Earth's Future*. PNNL-SA-136697.

Yu, Sha, **James Edmonds**, Leon Clarke, Jeffrey Mcleod, Pralit Patel, Jill Horing, Casie Davidson, Robert Dahowski, Qiang Liu, Haewon McJeon, Bo Liu. 2019. CCUS in China’s Mitigation Strategy: Insights from Integrated Assessment Modeling, *International Journal of Greenhouse Gas Control*. PNNL-SA-128974. doi:10.1016/j.ijggc.2019.03.004

**2019 Reports**

Lempert, Robert, Benjamin L. Preston, **Jae Edmonds**, Leon Clarke, Tom Wild, Matthew Binsted, Elliot Diringer, and Brad Townsend. "Pathways to 2050." *Center for Climate and Energy Solutions* (2019).

Rozenberg J, Fay M, Riahi K, van Vuuren DP, Kriegler E, **Edmonds J**, O’Neill BC, Fujimori S, Bauer N, van Vuuren DP, Edmonds J, editors. The Representative Concentration Pathways: An Overview. (2019) World Bank. PNNL-28620

**2018 Papers**

Weber, Christopher, David L. McCollum, **Jae Edmonds**, Pedro Faria, Alban Pyanet, Joeri Rogelj, Massimo Tavoni, Jakob Thoma, and Elmar Kriegler. "Mitigation scenarios must cater to new users." ***Nature Climate Change*** 8, no. 10 (2018): 845.PNNL-ACT-SA-10346

Iyer, Gokul, Katherine Calvin, Leon Clarke, **James Edmonds**, Nathan Hultman, Corinne Hartin, Haewon McJeon, Joseph Aldy, and William Pizer. "Implications of sustainable development considerations for comparability across nationally determined contributions." ***Nature Climate Change*** 8, no. 2 (2018): 124. PNNL-SA-121202

Steven J. Davis, Nathan S. Lewis, Matthew Shaner, Sonia Aggarwal, Doug Arent,, Inês L. Azevedo, Sally M. Benson,,, Thomas Bradley, Jack Brouwer,, Yet-Ming Chiang, Christopher T. M. Clack, Armond Cohen, Stephen Doig, **Jae Edmonds**, Paul Fennell, Christopher B. Field, Bryan Hannegan, Bri Mathias Hodge, Martin I. Hoffert, Eric Ingersoll, Paulina Jaramillo, Klaus S. Lackner, Lee R. Lynd,, Katharine J. Mach, Michael Mastrandrea, Joan Ogden, Per F. Peterson, Daniel L. Sanchez, Daniel Sperling, Joseph Stagner, Jessika E. Trancik,, Chi-Jen Yang, and Ken Caldeira. 2017. Net-zero emissions energy systems. ***Science***. 2018 Jun 29;360(6396):eaas9793. PNNL-ACT-SA-10296. doi:10.1126/science.aas9793. PNNL-ACT-SA-10114

Iyer, G.C. and **Edmonds, J.A.** 2018. Energy Modeling—Interpreting Energy Scenarios, ***Nature Energy***. <https://doi.org/10.1038/s41560-018-0145-9>. PNNL-ACT-SA-10305

Joeri Rogelj, Alexander Popp, Katherine V Calvin, Gunnar Luderer, Johannes Emmerling, David Gernaat, Shinichiro Fujimori, Jessica Strefler, Tomoko Hasegawa, Giacomo Marangoni, Volker Krey, Elmar Kriegler, Keywan Riahi, Detlef P van Vuuren, Jonathan Doelman, Laurent Drouet, **Jae Edmonds**, Oliver Fricko, Mathijs Harmsen, and Petr Havlík. 2018. "Scenarios towards limiting global mean temperature increase below 1.5° C." ***Nature Climate Change****.* **Vol.8(4)**: p.325-332. PNNL-ACT-SA-10229. doi:10.1038/s41558-018-0091-3

Iyer, G.C., Ledna C M, Clarke L E, **Edmonds J A**, McJeon H C, Kyle G P, Williams J. 2018. "Measuring Progress from Nationally Determined Contributions to Mid-Century Strategies" ***Nature Climate Change*** <https://doi.org/10.1038/s41558-017-0039-z>. PNNL-ACT-SA-10269

Iyer, G. C. and Edmonds, J. A. 2017. "Emission scenarios: Explaining differences" ***Nature Climate Change*** 7(2):99-100. 10.1038/nclimate3200 PNNL-ACT-SA-10208

Turner, Sean WD, Mohamad Hejazi, Son H. Kim, Leon Clarke, and **Jae Edmonds**. "Climate impacts on hydropower and consequences for global electricity supply investment needs." 2018. *Energy* 141 (2017): 2081-2090. PNNL-SA-125443. doi:10.1016/j.energy.2017.11.089. PNNL-SA-125443

Zhou, Sheng, Yu Wang, Yuyu Zhou, Leon E. Clarke, and **James A. Edmonds**. 2018. "Roles of wind and solar energy in China’s power sector: Implications of intermittency constraints." *Applied Energy* 213 (2018): 22-30. PNNL-ACT-SA-10328. doi:10.1016/j.apenergy.2018.01.025. PNNL-ACT-SA-10328

Lamontagne, J. R., Reed, P. M., Link, R., Calvin, K. V., Clarke, L. E., and **Edmonds, J. A.** (2018). 2018. Large Ensemble Analytic Framework for Consequence-Driven Discovery of Climate Change Scenarios. ***Earth’s Future***, 6, 488-504. <https://doi.org/10.1002/2017EF000701>.

**2018 Reports**

Silva, Silvia R., Haewon C. McJeon, Fernando Miralles-Wilhelm, Raul Munoz Castillo, Leon Clarke, Alison Delgado, **James A. Edmonds** et al. 2018. *Energy-Water-Land Nexus in Latin America and the Caribbean: A Perspective from the Paris Agreement Climate Mitigation Pledges*. No. IDB-WP-00901. Inter-American Development Bank, 2018.

**2017 Papers**

**Edmonds J.A.,** R.P. Link, S.T. Waldhoff, and Y. Cui. 2017. "A Global Food Demand Model for the Assessment of Complex Human-Earth Systems." ***Climate Change Economics*** 8, no. 4:Article No. 1750012. **doi:10.1142/S2010007817500129. PNNL-SA-121534**

Thornton, Peter E., Kate Calvin, Andy Jones, Alan V. Di Vittorio, Ben Bond-Lamberty, Louise Chini, Xiaoying Shi, Jiafu Mao, John Truesdale, Marcia Branstetter, William D. Collins, **Jae Edmonds**, Allison Thomson, George Hurtt. 2017. Biospheric feedback effects in a synchronously coupled model of human and Earth systems**. *Nature Climate Change,*** volume 7, pages 496–500 (2017). doi:10.1038/nclimate3310.

Muratori M., H. Kheshgi, B.K. Mignone, L.E. Clarke, H.C. McJeon, and J.A. Edmonds. 2017. "Carbon Capture and Storage across Fuels and Sectors in Energy System Transformation Pathways." *International Journal of Greenhouse Gas Control* 57. PNNL-ACT-SA-10144. doi:10.1016/j.ijggc.2016.11.026

Muratori, Matteo, Catherine Ledna, Haewon McJeon, Page Kyle, Pralit Patel, Son H. Kim, Marshall Wise, Haroon S. Kheshgi, Leon E. Clarke, and **Jae Edmonds**. "Cost of power or power of cost: A US modeling perspective." *Renewable and Sustainable Energy Reviews* 77 (2017): 861-874.

[<https://doi.org/10.1016/j.rser.2017.04.055>].

Keywan Riahi, Detlef P. van Vuuren, Elmar Kriegler, **Jae Edmonds**, Brian O’Neill, Shinichiro Fujimori, Nico Bauer, Katherine Calvin, Rob Dellink, Oliver Fricko, Wolfgang Lutz, Alexander Popp, Jesus Crespo Cuaresma, Samir KC, Marian Leimbach, Leiwen Jiang, Tom Kram, Shilpa Rao, Johannes Emmerling, Kristie Ebi, Tomoko Hasegawa, Petr Havlik, Florian Humpenöder, Lara Aleluia Da Silva, Steve Smith, Elke Stehfest, Valentina Bosetti, Jiyong Eom, David Gernaat, Toshihiko Masui, Joeri Rogelj, Jessica Strefler, Laurent Drouet, Volker Krey, Gunnar Luderer, Mathijs Harmsen, Kiyoshi Takahashi, Lavinia Baumstark, Jonathan Doelman, Mikiko Kainuma, Zbigniew Klimont, Giacomo Marangoni, Hermann Lotze-Campen, Michael Obersteiner, Andrzej Tabeau, Massimo Tavoni (2017), The Shared Socioeconomic Pathways and their Energy, Land Use, and Greenhouse Gas Emissions Implications: An Overview. *Global Environmental Change*, Volume 42, January 2017, Pages 153–168). (PNNL-SA-115333)

Calvin, Katherine, Marshall Wise, Page Kyle, Leon Clarke, and **Jae Edmonds**. "A Hindcast Experiment Using the GCAM 3.0 Agriculture and Land-Use Module." Climate Change Economics 8, no. 01 (2017): 1750005.

Calvin K V,Bond-Lamberty B,Clarke L E,**Edmonds J A**,Eom J,Hartin C A,Kim S H,Kyle G Page,Link R P,Moss R H,McJeon H C,Patel P L,Smith S J,Waldhoff S T,Wise M A 2017. "The SSP4: A World of Deepening Inequality" Global Environmental Change 42():284-296. 10.1016/j.gloenvcha.2016.06.010 PNNL-SA-115202

Bauer N, KV Calvin, J Emmerling, O Fricko, S Fujimori, J Hilaire, J Eom, V Krey, E Kriegler, I Mouratiadou, H Sytze de Boer, M van den Berg, S Carrara, V Daioglou, L Drouet, **JA Edmonds**, D Gernaat, P Havlik, N Johnson, D Klein, GP Kyle, G Marangoni, T Masui, R Pietzcker, M Strubegger, MA Wise, K Riahi, and D Van Vuuren.  2017.  "Shared Socio-Economic Pathways of the Energy Sector – Quantifying the Narratives." Global Environmental Change 42 (2017): 316-330. (PNNL-SA-115383)

Iyer G C, Clarke L E, **Edmonds J A**, Hultman N 2016. "Do national-level policies to promote low-carbon technology deployment pay off for the investor countries?" Energy Policy 98():400–411. 10.1016/j.enpol.2016.08.017 PNNL-ACT-SA-10178

**2016 Papers**

Fawcett, Allen A., Gokul C. Iyer, Leon E. Clarke, James A. Edmonds, Nathan E. Hultman, Haewon C. McJeon, Joeri Rogelj et al. "Can Paris pledges avert severe climate change?." *Science* 350, no. 6265 (2015): 1168-1169.

Muratori, Matteo, Katherine Calvin, Marshall Wise, Page Kyle, and **Jae Edmonds**. "Global economic consequences of deploying bioenergy with carbon capture and storage (BECCS)." ***Environmental Research Letters*** 11, no. 9 (2016): 095004. (PNNL-ACT-SA-10154)

Joseph Aldy, William Pizer, Massimo Tavoni, Lara Aleluia Reis, Keigo Akimoto, Geoffrey Blanford, Carlo Carraro, Leon E. Clarke, **James Edmonds**, Gokul C. Iyer, Haewon C. McJeon, Richard Richels, Steven Rose, Fuminori Sano. 2016. "Economic tools to promote transparency and comparability in the Paris Agreement." Nature Climate Change 6, no. 11 (2016): 1000-1004. (PNNL-ACT-SA-10174)

Calvin, K., Bond-Lamberty, B., Clarke, L., **Edmonds, J**., Eom, J., Hartin, C., Kim, S., Kyle, P., Link, R., Moss, R. and McJeon, H., 2016. The SSP4: A world of deepening inequality. *Global Environmental Change*. (PNNL-SA-115202)

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Bauer N, J Hilaire, R. J. Brecha, **J. Edmonds**, J. Kejun, E Kriegler, H.-H. Rogner, F. Sferra.  2016.  " Assessing global fossil fuel availability in a scenario framework." *Energy* Volume 111, 15 September 2016, Pages 580–592. doi:10.1016/j.energy.2016.05.088. (PNNL-SA-117127)

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Kriegler E,Mouratiadou I,Luderer G,Edmonds J A,Edenhofer O 2016. "Introduction to the RoSE special issue on the impact of economic growth and fossil fuel availability on climate protection" Climatic Change 136(1):1-6. 10.1007/s10584-016-1667-4.

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Gao, J., Zhang, A., Lam, S.K., Zhang, X., Thomson, A.M., Lin, E., Jiang, K., Clarke, L.E., Edmonds, J.A., Kyle, P.G. and Yu, S., 2016. An integrated assessment of the potential of agricultural and forestry residues for energy production in China. GCB Bioenergy. *Global Change Biology Bioenergy*, 8 (5):880-893; 10.1111/gcbb.12305 SEP 2016

**2015 Papers**

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