



John Weyant

Professor (Research) of Management Science and Engineering and Senior Fellow at the Precourt Institute for Energy

Bio

BIO

John P. Weyant is Professor of Management Science and Engineering, Director of the Energy Modeling Forum (EMF) and Deputy Director of the Precourt Institute for Energy Efficiency at Stanford University. He is also a Senior Fellow of the Precourt Institute for Energy and an affiliated faculty member of the Stanford School of Earth, Environment and Energy Sciences, the Woods Institute for the Environment, and the Freeman-Spogli Institute for International Studies at Stanford. His current research focuses on analysis of multi-sector, multi-region coupled human and earth systems dynamics, global change systems analysis, energy technology assessment, and models for strategic planning.

Weyant was a founder and serves as chairman of the Integrated Assessment Modeling Consortium (IAMC), a thirteen year old collaborative with over 60 member institutions from around the world. He has been an active adviser to the United Nations, the European Commission, U.S. Department of Energy, the U.S. Department of State, and the Environmental Protection Agency. In California, he has been and adviser to the California Air Resources, the California Energy Commission and the California Public Utilities Commission..

Weyant was awarded the US Association for Energy Economics' 2008 Adelman-Frankel award for unique and innovative contributions to the field of energy economics and the award for outstanding lifetime contributions to the Profession for 2017 from the International Association for Energy Economics, and a Life Time Achievement award from the Integrated Assessment Modeling Consortium in 2018. Weyant was honored in 2007 as a major contributor to the Nobel Peace prize awarded to the Intergovernmental Panel on Climate Change and in 2008 by Chairman Mary Nichols for contributions to the to the California Air Resources Board's Economic and Technology Advancement Advisory Committee on AB 32.

Fields of Specialization:

Energy/Environmental Policy Analysis, Strategic Planning

Interests:

Overall goal is to accelerate the use of systems models at state, country, and global scales, aiming to provide the best available information and insights to government and private-sector decision makers. Specific areas include energy, climate change, and sustainable development policy, including emerging technologies and market design alternatives. Draws on concepts and techniques from science and engineering fundamentals (e.g., thermodynamics, fluid mechanics, materials science, and electrical power systems), operations research, economics, finance, and decision theory.

ACADEMIC APPOINTMENTS

- Professor (Research), Management Science and Engineering

- Deputy Director, Precourt Energy Efficiency Center
- Affiliate, Stanford Woods Institute for the Environment

HONORS AND AWARDS

- Nobel Peace Prize, Significant Contributions to the Intergovernmental Panel on Climate Change Award, Intergovernmental Panel on Climate Change (2007)
- Adelman Frankel Award for 2008 for Unique and Enduring Contributions to the Field, U.S. Association for Energy Economics, (2008)
- Outstanding Contributions to the Profession Award for 2017,(Maximum One Award per Year), International Association for Energy Economics (2017)
- (First) Life Time Achievement Award, Integrated Assessment Modeling Consortium (2018)

PROFESSIONAL EDUCATION

- MS, Rensselaer Polytechnic Institute , Operations Research and Statistics (1970)
- MS, Rensselaer Polytechnic Institute , Aero. Eng. and Astronautics (1970)
- PhD, UC Berkeley , Management Science (1976)

Teaching

COURSES

2019-20

- Advanced Methods in Modeling for Climate and Energy Policy: MS&E 394 (Spr)
- Doctoral Research Seminar in Energy-Environmental Systems Modeling and Analysis: MS&E 391 (Aut)
- International Environmental Policy: MS&E 92Q (Win)
- The Energy Seminar: CEE 301, ENERGY 301, MS&E 494 (Aut, Win, Spr)

2018-19

- Advanced Methods in Modeling for Climate and Energy Policy: MS&E 394 (Spr)
- International Environmental Policy: MS&E 92Q (Win)
- The Energy Seminar: CEE 301, ENERGY 301, MS&E 494 (Aut, Win, Spr)

2017-18

- Doctoral Research Seminar in Energy-Environmental Systems Modeling and Analysis: MS&E 391 (Spr)
- International Environmental Policy: MS&E 92Q (Win)
- Systems Modeling for Climate Policy Analysis: MS&E 294 (Win)
- The Energy Seminar: CEE 301, ENERGY 301, MS&E 494 (Aut, Win, Spr)

2016-17

- Doctoral Research Seminar in Energy-Environmental Systems Modeling and Analysis: MS&E 391 (Aut, Spr)
- Energy Policy Analysis: MS&E 295 (Win)
- Entrepreneurship Through the Lens of Venture Capital: Venture Capital From Past to Present: MS&E 476 (Aut)
- International Environmental Policy: MS&E 92Q (Win)
- Silicon Valley and the U.S. Government: Scaling Business-to-Government Technology: MS&E 477 (Win)
- The Energy Seminar: CEE 301, ENERGY 301, MS&E 494 (Aut, Win, Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Xianling Long

Doctoral Dissertation Advisor (AC)

Patricia Levi, Brian Reed

Master's Program Advisor

Laura Chiaramonte, Maria Gabrielle Co Seteng, Maeve Givens, Eric Weiner

Doctoral Dissertation Co-Advisor (AC)

Chikara Onda, William Scott

Doctoral (Program)

Jill Horing, Olamide Oladeji, Chikara Onda, Ashley Pilipiszyn

Publications

PUBLICATIONS

- **On choosing the resolution of normative models** *EUROPEAN JOURNAL OF OPERATIONAL RESEARCH*
Merrick, J. H., Weyant, J. P.
2019; 279 (2): 511–23
- **Macro-Energy Systems: Toward a New Discipline** *JOULE*
Levi, P. J., Kurland, S., Carbajales-Dale, M., Weyant, J. P., Brandt, A. R., Benson, S. M.
2019; 3 (10): 2282–86
- **Inside the Black Box: Understanding key drivers of global emission scenarios** *ENVIRONMENTAL MODELLING & SOFTWARE*
Kooimey, J., Schmidt, Z., Hummel, H., Weyant, J.
2019; 111: 268–81
- **INTRODUCTION TO THE EMF 32 STUDY ON U.S. CARBON TAX SCENARIOS** *CLIMATE CHANGE ECONOMICS*
Fawcett, A. A., McFarland, J. R., Morris, A. C., Weyant, J. P.
2018; 9 (1)
- **Evaluation of a proposal for reliable low-cost grid power with 100% wind, water, and solar** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Clack, C. M., Qvist, S. A., Apt, J., Bazilian, M., Brandt, A. R., Caldeira, K., Davis, S. J., Diakov, V., Handschy, M. A., Hines, P. H., Jaramillo, P., Kammen, D. M., Long, et al
2017; 114 (26): 6722–27
- **Markets for Energy Efficiency** *Energy Policy (Elsevier Science Ltd.)*
Weyant, John, P., Huntington, Hillard, G., Schipper, L., Sanstad, Alan, H.
; 10 (22)
- **Some Contributions of Integrated Assessment Models of Global Climate Change** *REVIEW OF ENVIRONMENTAL ECONOMICS AND POLICY*
Weyant, J.
2017; 11 (1): 115-137
- **Dynamically estimating the distributional impacts of US climate policy with NEMS: A case study of the Climate Protection Act of 2013** *ENERGY ECONOMICS*
Cullenward, D., Wilkerson, J. T., Wara, M., Weyant, J. P.
2016; 55: 303-318
- **Comparison of low-carbon pathways for California** *CLIMATIC CHANGE*
Morrison, G. M., Yeh, S., Eggert, A. R., Yang, C., Nelson, J. H., Greenblatt, J. B., Isaac, R., Jacobson, M. Z., Johnston, J., Kammen, D. M., Mileva, A., Moore, J., Roland-Holst, et al
2015; 131 (4): 545-557
- **Comparison of integrated assessment models: Carbon price impacts on US energy** *ENERGY POLICY*
Wilkerson, J. T., Leibowicz, B. D., Turner, D. D., Weyant, J. P.

2015; 76: 18-31

- **The role of technology for achieving climate policy objectives: overview of the EMF 27 study on global technology and climate policy strategies** *CLIMATIC CHANGE*
Kriegler, E., Weyant, J. P., Blanford, G. J., Krey, V., Clarke, L., Edmonds, J., Fawcett, A., Luderer, G., Riahi, K., Richels, R., Rose, S. K., Tavoni, M., Van Vuuren, et al
2014; 123 (3-4): 353-367
- **Energy efficiency potentials for global climate change mitigation** *CLIMATIC CHANGE*
Sugiyama, M., Akashi, O., Wada, K., Kanudia, A., Li, J., Weyant, J.
2014; 123 (3-4): 397-411
- **Bioenergy in energy transformation and climate management** *CLIMATIC CHANGE*
Rose, S. K., Kriegler, E., Bibas, R., Calvin, K., Popp, A., Van Vuuren, D. P., Weyant, J.
2014; 123 (3-4): 477-493
- **End use technology choice in the National Energy Modeling System (NEMS): An analysis of the residential and commercial building sectors** *ENERGY ECONOMICS*
Wilkerson, J. T., Cullenward, D., Davidian, D., Weyant, J. P.
2013; 40: 773-784
- **Electric sector investments under technological and policy-related uncertainties: a stochastic programming approach** *CLIMATIC CHANGE*
Bistline, J. E., Weyant, J. P.
2013; 121 (2): 143-160
- **Introduction to the EMF 29 special issue on the role of border carbon adjustment in unilateral climate policy Preface** *ENERGY ECONOMICS*
Boehringer, C., Balistreri, E. J., Rutherford, T. F., Weyant, J.
2012; 34: S95-S96
- **Regional energy system variation in global models: Results from the Asian Modeling Exercise scenarios** *ENERGY ECONOMICS*
Clarke, L., Krey, V., Weyant, J., Chaturvedi, V.
2012; 34: S293-S305
- **A special issue on the RCPs** *CLIMATIC CHANGE*
van Vuuren, D. P., Edmonds, J. A., Kainuma, M., Riahi, K., Weyant, J.
2011; 109 (1-2): 1-4
- **Competing or coordinating: IT R&D investment decision making subject to information time lag** *INFORMATION TECHNOLOGY & MANAGEMENT*
Yao, T., Weyant, J., Feng, B.
2011; 12 (3): 241-251
- **Accelerating the development and diffusion of new energy technologies: Beyond the "valley of death"** *ENERGY ECONOMICS*
Weyant, J. P.
2011; 33 (4): 674-682
- **EMF 25 Summary Report: Energy Efficiency and Climate Change Mitigation** *Energy Modeling Forum*
Weyant, J. P.
2011
- **The next generation of scenarios for climate change research and assessment** *NATURE*
Moss, R. H., Edmonds, J. A., Hibbard, K. A., Manning, M. R., Rose, S. K., Van Vuuren, D. P., Carter, T. R., Emori, S., Kainuma, M., Kram, T., Meehl, G. A., Mitchell, J. F., Nakicenovic, et al
2010; 463 (7282): 747-756
- **A perspective on integrated assessment** *CLIMATIC CHANGE*
Weyant, J. P.
2009; 95 (3-4): 317-323
- **Introduction to the EMF 22 special issue on climate change control scenarios** *ENERGY ECONOMICS*
Clarke, L., Weyant, J.
2009; 31: S63-S63

- **The Energy Journal 2009 Special Issue: World Natural Gas Markets and Trade** *Association for Energy Economics*
Weyant, J. P., Huntington, H.
2009
- **Overview of EMF 22 US transition scenarios** *ENERGY ECONOMICS*
Fawcett, A. A., Calvin, K. V., de la Chesnaye, F. C., Reilly, J. M., Weyant, J. P.
2009; 31: S198-S211
- **Optimizing US Mitigation Strategies for the Light-Duty Transportation Sector: What We Learn from a Bottom-Up Model** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Yeh, S., Farrell, A., Plevin, R., Sanstad, A., Weyant, J.
2008; 42 (22): 8202-8210
- **On the sources of technological change: What do the models assume?** *ENERGY ECONOMICS*
Clarke, L., Weyant, J., Edmonds, J.
2008; 30 (2): 409-424
- **A Critique of the Stern Review's Mitigation Cost Analyses and Integrated Assessment** *REVIEW OF ENVIRONMENTAL ECONOMICS AND POLICY*
Weyant, J. P.
2008; 2 (1): 77-93
- **Comment on "Alternative measures of output in global economic-environmental models: Purchasing power parity or market exchange rates?" by William Nordhaus** *ENERGY ECONOMICS*
Weyant, J. P.
2007; 29 (3): 373-374
- **On the sources of technological change: Assessing the evidence** *Annual Workshop on Climate Change Impacts and Integrated Assessment*
Clarke, L., Weyant, J., Birky, A.
ELSEVIER SCIENCE BV.2006: 579-95
- **Optimal technology R&D in the face of climate uncertainty** *Conference on Adaptive Research and Governance in Climate Change*
Baker, E., Clarke, L., Weyant, J.
SPRINGER.2006: 157-79
- **Overview of EMF-21: Multigas mitigation and climate policy** *ENERGY JOURNAL*
Weyant, J. R., de la Chesnaye, F. C., Blanford, G. J.
2006: 1-32
- **EMF 21 Multi-Greenhouse Gas Mitigation and Climate Policy Francisco C.** *The Energy Journal Special Issue*
De La Chesnaye, C., Weyant, John, P.
2006
- **Multi-gas scenarios to stabilize radiative forcing** *ENERGY ECONOMICS*
Van Vuuren, D. P., Weyant, J., de la Chesnaye, F.
2006; 28 (1): 102-120
- **Climate suitability for stable malaria transmission in Zimbabwe under different climate change scenarios** *CLIMATIC CHANGE*
Ebi, K. L., Hartman, J., Chan, N., McConnell, J., SCHLESINGER, M., Weyant, J.
2005; 73 (3): 375-393
- **Energy economics** *ENERGY ECONOMICS*
Tol, R. S., Weyant, J. P.
2005; 27 (4): 551-552
- **Special Issue - EMF 19 Alternative Technology Strategies for Climate Change Policy** *ENERGY ECONOMICS*
Weyant, J. P.
2004; 26 (4): 501-515
- **Untitled** *ENERGY ECONOMICS*
Tol, R. S., Weyant, J. P.

2004; 26 (1): V-VI

- **EMF OP 54 Shares, Gaps, and Economy's Response to Oil Disruption** *Stanford University*
Weyant, John, P., Huntington, Hillard, G.
2004
- **EMF OP 57 After the Natural Gas Bubble: An Economic Evaluation of the Recent U.S. National Petroleum Council Study** *Stanford University and Energy Journal April 2005*
Weyant, John, P., Costello, K., Huntington, Hillard, G., Wilson, James, F.
2004
- **EMF OP 53 U.S. Carbon Emissions, Technological Process, and Economic Growth Since 1870** *Stanford University*
Weyant, John, P., Huntington, Hillard, G.
2004
- **Strategic decisions of new technology adoption under asymmetric information: A game-theoretic model** *DECISION SCIENCES*
Zhu, K., Weyant, J. P.
2003; 34 (4): 643-675
- **EMF WP 20.2 Valuing a Medium-Scale Gas Fired Power Plant with Capacity Expansion Options Under a Competitive Environment** *Central Research Institute for the Electric Power Industry*
Weyant, John, P., Takahashi, M., Hattori, T., Okada, K., Asano, H.
2003
- **EMF OP 55 Energy Security and Global Climate Change Mitigation** *Stanford University*
Weyant, John, P., Huntington, Hillard, G., Brown, Stephen, P. A.
2003
- **EMF 20 Report: Natural Gas, Fuel Diversity, and North American Energy Markets** *Energy Modeling Forum EMF 20 Working Group*
Weyant, John, P.
2003; 1
- **EMF WP 20.3 Fuel Switching Potential of Electric Generators: A Case Study** *Stanford University*
Pyrdol, J., Baron, B.
2003
- **EMF WP 19.2 Environmental Technology Policy and Emerging Technologies** *Stanford University*
Weyant, John, P., Clarke, L.
2002
- **EMF-17: Prices and Emissions in a Restructured Electricity Market** *Energy Modeling Forum Energy Modeling Forum*
Weyant, John, P.
2002; 1
- **EMF OP 52 Modeling Energy Markets and Climate Change Policy** *Stanford University and Encyclopedia of Energy*
Huntington, Hillard, G., Weyant, John, P.
2002
- **EMF WP 20.1 Study Design: Natural Gas, Fuel Diversity and American Energy Markets** *Stanford University*
Weyant, John, P., Huntington, H.
2002
- **EMF OP 51 Energy Disruptions, Interfirm Price Effects, and the Aggregate Economy** *Stanford University and Energy Economics March 2003*
Weyant, John, P., Huntington, Hillard, G.
2002; 25 (2)
- **Bn integrated assessment model to evaluate the potential effects of climate change on malaria in Zimbabwe**
Hartman, J., McConnell, J., Chan, N., Ebi, K., Weyant, J.
LIPPINCOTT WILLIAMS & WILKINS.2001: S29-S29
- **An integrated assessment model to evaluate the potential effects of climate change on malaria in Zimbabwe.**

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- Hartman, J., McConnell, K. J., Chan, N., Ebi, K. L., Weyant, J.
OXFORD UNIV PRESS INC.2001: S136–S136
- **A report on the EMF 19 study on technology and global climate change policies** *5th International Conference on Greenhouse Gas Control Technologies*
Beecy, D., Richels, R., Weyant, J.
C S I R O.2001: 1026–1031
 - **EMF OP 50 The Asymmetric Effects of Changes in Price and Income on Energy and Oil Demand** *Stanford University and Energy Journal* 2002
Weyant, John, P., Gately, D., Huntington, Hillard, G.
2001; 1 (23)
 - **Approaches for performing uncertainty analysis in large-scale energy/economic policy models** *ENVIRONMENTAL MODELING & ASSESSMENT*
Kann, A., Weyant, J. P.
2000; 5 (1): 29-46
 - **EMF OP 49 Projecting Energy Trends Into the New Century** *Stanford University and Encyclopedia of Life Support Systems, EOLSS Publishers*
Weyant, John, P., Huntington, Hillard, G., Rodekoeh, M.
2000
 - **SPECIAL ISSUE THE COSTS OF THE KYOTO PROTOCOL: A MULTI-MODEL EVALUATION INTRODUCTION AND OVERVIEW** *ENERGY JOURNAL*
Weyant, J. P., Hill, J. N.
1999: VII-XLIV
 - **EMF WP 17.1 An International Comparison of Models for Measuring Market Power in Electricity** *Stanford University*
Weyant, John, P., Bushnell, J., Day, C., Duckworth, M., Green, R., Halseth, A.
1999
 - **EMF WP 14.5 Induced Technological Change in Climate Policy Modeling** *Stanford University and Environmental Modeling and Assessment*
Weyant, John, P., Olavson, T.
1999; 14 (2,3)
 - **Energy and Environmental Policy Modeling**
Weyant, John, P.
Kluwer Academic Press.1999
 - **EMF WP 14.4 Approaches for Performing Uncertainty Analysis in Large-Scale Energy/Economic Policy Models** *Stanford University and Environmental Modeling and Assessment* 2000
Kann, A., Weyant, John, P.
1999; 5 (1)
 - **Discounting and Intergenerational Equity**
Portney, Paul, R., Weyant, John, P.
edited by Portney, Paul, R., Weyant, John, P.
RFF Press.1999
 - **The Costs of the Kyoto Protocol** *Energy Journal (special issue)*
Weyant, John, P.
1999
 - **Reducing carbon emissions using clean distributed resources** *19th Annual North American IAEE/USAEE Conference on Technology Critical Role in Energy and Environmental Markets*
Hoff, T. E., Weyant, J. P., Herig, C.
INTERNATIONAL ASSOCIATION FOR ENERGY ECONOMICS.1998: 396–404
 - **EMF-15: A Competitive Electricity Industry** *Energy Modeling Forum Energy Modeling Forum*
Weyant, John, P.
1998; 1
 - **EMF OP 43 Crude Oil Prices and U.S. Economic Performance: Where Does the Asymmetry Reside?** *Stanford University*
Weyant, John, P., Huntington, Hillard, G.

1998

- **Designing Competitive Electricity Markets** *Designing Competitive Electricity Markets*
Weynat, John, P.
edited by Chao, H., Huntington, H.
1998: 228
- **Transmission Pricing** *Energy Modeling Forum Utilities Policy (Elsevier Science Ltd.)*
Weyant, Jonh, P.
1997; 3 (6)
- **EMF SR 7 Quantifying Oil Disruption Risks Through Expert Judgment** *Stanford University*
Huntington, Hillard, G., Kann, A., Weyant, John, P.
1997
- **EMF OP 47 The IPCC Energy Assessment** *Stanford University and Energy Policy Special Issue: Energy and Greenhouse Has Mitigation: The IPCC Report and Beyond*
Weyant, John, P.
1997; 24 (10/11)
- **EMF OP 48 Preliminary Results from EMF 14 on Integrated Assessment of Climate Change** *Stanford University*
Weyant, John, P.
1997
- **The IPCC energy assessment - Commentary** *ENERGY POLICY*
Weyant, J. P.
1996; 24 (10-11): 1005-1008
- **EMF SR 6 Computation of Electric Power Production Cost with Transmission Constraints** *Stanford University*
Weyant, John, P., Earle, Robert, L.
1996
- **EMF-13: Markets for Energy Efficiency** *Energy Modeling Forum Energy Modeling Forum*
Weyant, John, P.
1996; 1
- **EMF OP 44 Some Implications of Increased Cooperation in World Oil Conservation** *Stanford University; Federal Reserve Bank of Dallas Economic Review, Second Quarter*
Weyant, Jonh, P., Brown, Stephen, P. A., Huntington, Hillard, G.
1996
- **EMF WP 14.2 Hedging Stratgies for Global Dioxide Abatement: A Summary of Pull Results - EMF 14 Subgroup Analysis for Decisions Under Uncertainty** *Stanford University*
Weyant, John, P., Manne, Alan, S.
1996
- **EMF WP 14.3 The Berlin Mandate: The Design of Cost-Effective Mitigation Strategies** *Stanford University*
Weyant, John, P., Richls, R., Edmonds, J., Gruenspecht, H., Wigley, T.
1996
- **EMF OP 46 Insights from Integrated Assessment** *Stanford University*
Weyant, John, P.
1996
- **EMF OP 45 Testimony at the Hearings on U.S. Climate Change** *Stanford University*
Weyant, John, P.
1996
- **EMF WP 14.1 Second Round Study for EMF 14: Integrated Assessment of Global Climate Change** *Energy Modeling Forum Stanford University*
Weyant, John, P.
1995

- **EMF OP 42 LDC Cooperation in World Oil Conservation Policies** *Stanford University; The Energy Journal Special*
Weyant, John, P., Brown, Stephen, P.A., Huntington, Hillard, G.
1994
- **EMF-13: Markets for Energy Efficiency** *Energy Modeling Forum*
Weyant, John, P.
1994; 2
- **EMF OP 34 Oil Price Forecasting During the 1980s: What Went Wrong?** *Energy Journal*
Weyant, John, P., Huntington, Hillard, G.
1994; 2 (15)
- **EMF OP 41 Been Top Down So Long It Looks Like Bottom Up** *Stanford University; Energy Policy*
Weyant, John, P., Huntington, Hillard, G.
1994; 10 (22)
- **EMF OP 40 Assessing the Economic Cost of U.S. Oil Conservation** *Stanford University*
Weyant, John, P., Brown, Stephen, P.A., Huntington, Hillard, G.
1994
- **COSTS OF REDUCING GLOBAL CARBON EMISSIONS** *JOURNAL OF ECONOMIC PERSPECTIVES*
Weyant, J. P.
1993; 7 (4): 27-46
- **MODEL COMPARISONS OF THE COSTS OF REDUCING CO2 EMISSIONS** *105th Annual Meeting of the American-Economic-Association*
GASKINS, D. W., Weyant, J. P.
AMER ECON ASSN.1993: 318-23
- **EMF SR 5 Comparative Analysis of Energy Intensity Between the U.S. and Japan** *Stanford University*
Weyant, John, P., Nagata, Y.
1993
- **EMF WP 12.14 Results from the Jorgensen-Wilcoxon Model - Reducing U.S. Carbon Emissions: An Econometric General Equilibrium Assessment** *Stanford University*
Weyant, John, P., Jorgensen, Dale, W., Wilcoxon, Peter, J.
1993
- **EMF WP 12.4 Decomposition of Carbon Emission Reduction Projections** *Stanford University*
Weyant, John, P., Sit, M.
1993
- **EMF WP 12.2 Study Design for EMF 12 Global Climate Change: Energy Sector Impacts of Greenhouse Gas Emission Control Strategies** *Energy Modeling Forum Stanford University*
Weyant, John, P.
1993
- **EMF OP 38 Costs of Reducing Global Carbon Emissions: An Overview** *Stanford University*
Weyant, John, P.
1993
- **EMF WP 12.7 Cost-Benefit Analysis and Climate Change** *Stanford University*
Weyant, John, P., Peck, S., Teisberg, Thomas, J.
1993
- **EMF WP 12.5 The Technology Group Analysis** *Stanford University*
Weyant, John, P., Friedman, R., Newman, J., Belanger, S., Diener, A., Morris, S.
1993
- **EMF WP 12.3 Structural Comparison of EMF 12 Models** *Stanford University*
Weyant, John, P., Beaver, R.

1993

- **EMF WP 12.13 Results from the Edmonds-Reilly Model** *Stanford University*
Weyant, John, P., Edmonds, J.
1993
- **EMF WP 12.8 The Efficiency Value of Carbon Tax Revenues** *Stanford University*
Weyant, John, P., Shackleton, R., Shelby, M., Cristofaro, A., Brinner, R., Yanchar, J.
1993
- **EMF OP 37 EMF 12: Model Comparisons of the Costs of Reducing CO2 Emissions Darius** *Stanford University*
Gaskins, W., Weyant, John, P.
1993
- **EMF OP 35 Limiting Oil Imports: Cost Estimates From a Range of U.S. Model Projections** *Stanford University*
Weyant, John, P., Huntington, Hillard, G.
1993
- **EMF WP 13.3 Modeling Energy Technology Choices: Which Finance Tools Are Appropriate?** *Stanford University*
Weyant, John, P., Johnson, B.
1993
- **EMF WP 12.20 The Value of Cooperation in Abating Climate Change** *Stanford University*
Weyant, John, P., Hammitt, J., Adams, J.
1993
- **EMF WP 12.19 Sorting Out Facts and Uncertainties in Economic Response** *Stanford University*
Weyant, John, P., Yohe, Gary, W.
1993
- **EMF WP 12.18 Results from the Gemini-Energy Environmental Model - Analyzing Strategies for Reducing Greenhouse Gas Emissions** *Stanford University*
Weyant, John, P., Cohan, D., Deiner, A., Drozd, M., Gjerde, A., Haas, S.
1993
- **EMF WP 12.17 Results from the ICF Global-Macro Model: Estimation of Costs to Meet the CO2 Emission Targets in the Energy Sector** *Stanford University*
Weyant, John, P., Pepper, W.
1993
- **EMF WP 12.16 Results from the TGAS Model - Is the Forecast for Carbon Taxes Forecast by TGAS an Outlier: Why the Forecasts by Other Models are Too Low** *Stanford University*
Weyant, John, P., Kaufmann, Robert, T.
1993
- **EMF WP 12.15 Results from the U.S. Markal Model for EMF 12** *Stanford University*
Weyant, John, P., Morris, S., C., Lee, J., Goldstein, G.
1993
- **EMF WP 12.12 Lessons for the Implementation of Policies to Mitigate Carbon Dioxide Emissions** *Stanford University*
Weyant, John, P., Leary, Neil, A., Scheraga, Joel, D.
1993
- **EMF WP 12.6 The Transition to Reduced Levels of Carbon Emissions** *Stanford University*
Weyant, John, P., Peterson, E., Belanger, S., Cohan, D., Diener, A., Drozd, J., Michael
1993
- **EMF WP 12.21 Carbon Coalitions: The Cost and Effectiveness of Energy Agreements to Alter Trajectories of Atmospheric Carbon Dioxide Emission** *Stanford University*
Edmonds, J., Barns, David, W., Ton, M.
1993

- **EMF WP 12.10 Energy Security Impacts of Carbon Emission Reduction** *Stanford University*
Weyant, John, P., Rosenthal, D., Haspel, A., Lewis, H.
1993
- **EMF WP 12.9 The Distributional Impacts of a Carbon Tax** *Stanford University*
Weyant, John, P., Schillo, B., Giannarelli, L., Kelly, D., Swanson, S., Wilcoxon, P.
1993
- **EMF WP 13.4 Models of Individual Energy Technology Choice: Their Implications for Energy Technology Market Participants and Policy-Makers** *Stanford University*
Weyant, John, P., Johnson, B.
1993
- **EMF WP 12.1 Global Climate Change: Impacts of Greenhouse Gas Control Strategies, Executive Summary** *Energy Modeling Forum Stanford University*
Weyant, John, P.
1993
- **EMF OP 39 Structural Comparison of the Models in EMF 12** *Stanford University; Energy Policy*
Weyant, John, P., Beaver, R.
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