INVESTING IN A

HOW FAMILY OFFICES CAN CAPITALIZE ON CLIMATE INVESTMENT OPPORTUNITIES AND RISKS

February 25-26, 2015

Stanford Graduate School of Business 655 Knight Way Stanford, CA

AGENDA

Wednesday, February 25, 2015

9:00-9:10 am	Welcome <i>Alicia Seiger, Deputy Director, Steyer-Taylor Center for Energy Policy</i> <i>and Finance</i>
9:10-9:40 am	Setting the Stage—Climate Science and Economics for Investors Noah Diffenbaugh, Associate Professor, Environmental Earth System Science, Stanford University
9:40-10:00 am	<u>Conceptual Roadmap</u> Stefan Heck, Consulting Professor, Stanford Precourt Institute for Energy, Stanford University
10:00-10:30 am	<mark>Climate as a Financial Risk</mark> Bob Litterman, Chairman of Risk Committee, Kepos Capital
10:30-10:50 am	Break
10:50-11:50 am	What Investors Need to Know About Energy Policy Moderator: <u>Thomas Heller, Executive Director, Climate Policy Initiative</u> <u>and Professor Emeritus, Stanford University</u> Stefan Reichelstein, William R. Timken Professor of Accounting, Stanford Graduate School of Business Michael Wara, Associate Professor of Law, Stanford University Dan Reicher, Executive Director, Steyer-Taylor Center for Energy Policy and Finance

11:50-1:15 pm	Lunch
1:15-2:15 pm	The Landscape of Climate Exposure for Investors Barbara Buchner, Senior Director, Climate Policy Initiative Dario Abramskiehn, Analyst, Climate Policy Initiative
2:15-3:10 pm	Putting Today's Tools in Practice to Make Climate-Wise InvestmentsPresenter and Moderator: Donna Bebb, Research Fellow, Steyer-Taylor Center for Energy Policy and FinanceLee O'Dwyer, CFA, Equity Market Specialist, Bloomberg LP Douglas Cogan, Vice President and Asset Owner Consultant ESG Research, MSCI Inc.Jerome Lavigne-Delville, Chief of Standards Development, Sustainability Accounting Standards Board (SASB)
3:10-3:30 pm	Break
3:30-4:30 pm	<u>Structuring Resilient Partnerships</u> Suz MacCormac, Partner, Morrison and Foerster Will Fitzpatrick, General Counsel, Omidyar Network
4:30-5:30 pm	Break/Travel to Dinner
5:30-8:00 pm	Drinks and Dinner
	Realizing the Promise of Long-Term Investing Ashby Monk, Executive Director, Global Projects Center, Stanford University

Thursday, February 26, 2015

9:00-10:00 am	Resource Revolution—How to Capture the Biggest Business <u>Opportunity in a Century</u> Stefan Heck, Consulting Professor, Precourt Institute for Energy, Stanford University
10:00-11:00 am	Ideas in Practice—Investing in Deployment at Scale Moderator: Dan Reicher, Executive Director, Steyer-Taylor Center for Energy Policy and Finance Jonathan Silver, President and CEO, Greenbanc Global, former Executive Director Loan Programs Office, Department of Energy Jeff Eckel, President and CEO, Hannon Armstrong Jim Hourdequin, Managing Director, The Lyme Timber Company LP

11:00-11:20 am Break

11:20-12:20 pm	Ideas in Practice—Private Equity Moderator: <u>Stephan Dolezalek, Managing Director, VantagePoint Capital</u> <u>Partners</u> Ali Partovi, Investor, Farmland LP Reuben Munger, Managing Partner, Vision Ridge Partners LLC Scott Jacobs, CEO, Generate Capital, and Managing Director, EFW Partners
12:20-1:15 pm	Lunch
	Clean Energy Investment Initiative John J. MacWilliams, Senior Advisor to the Secretary of Energy at the U.S. Department of Energy
1:15-2:00 pm	Oil and Natural Gas Prices—Fireside Chat Moderator: Cathy Zoi, Consulting Professor, Precourt Institute for Energy, Stanford University Michael Levi, Senior Fellow, Council on Foreign Relations
2:00-3:00 pm	Ideas in Practice—Portfolio Management Moderator: Sarah Stein, President, Hall Capital Partners, LLC Michelle Edkins, Managing Director, Blackrock Raj Agrawal, Member, KKR Kevin Johnson, Vice President and Portfolio Manager, Dodge & Cox
3:00-3:20 pm	Break
3:20-4:40 pm	Group Workshop: Integrating Climate Considerations into Everyday Investment Decisions <i>Stefan Heck, Consulting Professor, Stanford Precourt Institute for</i> <i>Energy, Stanford University</i>
	Based on key questions identified by participants prior to attendance, attendees will break up into issue-themed groups to work through the practical realities of implementing climate-wise investing tactics, before coming together to discuss next steps.
4:40-4:45 pm	Closing Remarks <i>Alicia Seiger, Deputy Director, Steyer-Taylor Center for Energy Policy</i> <i>and Finance</i>

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Suggested Reading

Climate Science

<u>"Changes in Ecologically Critical Terrestrial Climate Conditions"</u> Noah S. Diffenbaugh and Christopher B. Field, Stanford University Science August 2013

Energy Finance Policy

"Modifying the U.S. Investment Tax Credit for Solar Energy: Alternatives to the Anticipated 2017 Step-Down" Stefan J. Reichelstein and Stephen D. Comello, Stanford Graduate School of Business January 2015 (See Program Briefing Book)

<u>"Smarter Finance for Cleaner Energy: Open up Master Limited Partnerships (MLPs) and Real</u> <u>Estate Investment Trusts (REITs) to Renewable Energy Investment"</u> Felix Mormann and Dan Reicher, Stanford University Brookings November 2012

<u>"An Economic Perspective on the EPA's Clean Power Plan"</u> Meredit Fowlie, Lawrence Goulder, Matthew Kotchen, et. al. Science November 2014

Conceptual Frameworks

"Climate Investing Scope Definitions and Framework" Stefan Heck, Stanford University Presentation to *Investing in a New Climate*, Stanford University 2015 (See Program Briefing Book)

"The New Climate Economy" Jeremy Oppenheim The Global Commission on the Economy and Climate, Presentation 2014 (See Program Briefing Book) "The Global Landscape of Climate Finance 2014"

Barbara Buchner, Martin Stadelmann, Jane Wilkinson, et. al., Climate Policy Initiative Climate Policy Initiative November 2014

Climate Exposure Tools

<u>"Climate Exposure Impact on Equity Valuation: Case Study of Vail Resorts"</u> Donna Bebb, Steyer-Taylor Center for Energy Policy and Finance Presentation to *Investing in a New Climate*, Stanford University 2015

<u>"Corporate Bonds: Spotlight on ESG Risks"</u> Mark Nicholls, MRG Comms United Nations Principles for Responsible Investment Initiative 2013

"Integrated Analysis: How Investors are Addressing Environmental, Social, and Governance Factors in Fundamental Equity Valuation"

ESG Working Group United Nations Principles for Responsible Investment Initiative February 2013

<u>"Mapping the World Bank Group Risk Mitigation Instruments for Climate Change"</u> Valerio Micale, Gianleo Frisari, and Federico Mazza, Climate Policy Initiative Climate Policy Initiative September 2013

<u>"The Landscape of Climate Exposure for Investors"</u> Barbara Buchner and Dario Abramskiehn, Climate Policy Initiative Presentation to *Investing in a New Climate*, Stanford University

2015

<u>"Risk Gaps"</u> Gianleo Frisari, Morgan Herve-Mignucci, Valerio Micale, Federico Mazza, Climate Policy Initiative. Climate Policy Initiative January 2013

Structuring Resilient Partnerships

<u>"How I Did It: EBay's Founder on Innovating the Business Model of Social Change"</u> Pierre Omidyar, Omidyar Network Harvard Business Review September 2011

Resource Revolution

"Resource Revolution: How to Capture the Biggest Business Opportunity in a Century"

Stefan Heck, Stanford University, and Matt Rogers, McKinsey New Harvest 2014

"Resource Revolution: Investor Opportunities in a New Climate" Stefan Heck, Stanford University Presentation to *Investing in a New Climate*, Stanford University 2015 (See Program Briefing Book)

Putting Capital to Work

<u>"A Deeper Look into Yieldco Structuring"</u> Marley Urdanick, National Renewable Energy Laboratory National Renewable Energy Laboratory September 2014

<u>"Creating Climate Wealth: Unlocking the Impact Economy"</u> Jigar Shah, Generate Capital 2013

"FACT SHEET: Obama Administration Announces Initiative to Scale Up Investment in Clean Energy Innovation" The White House: Office of the Press Secretary February 2015

"Food is the New Frontier in Greentech"

Ali Partovi, Partovi Investments TechCrunch April 24, 2011

"Global Resource Risk and Opportunities" Stephan Dolezalek, Lee Burrows, Stefan Heck, Martin Lagod, Peter Shannon, and Andrew Shapiro, Resource Productivity Capital 2015 (See Program Briefing Book)

<u>"Growing the Role of US Forests in the Climate Movement"</u> Brian Kittler, Pinchot Institute for Conservation Pinchot Institute for Conservation 2015

"Impact Investing in the Energy Sector: How Federal Action Can Galvanize Private Support for Energy Innovation and Deployment" Alicia Seiger, Steyer-Taylor Center for Energy Policy and Finance Sarah Kearney, PRIME Coalition Peter Berliner, Mission Investors Exchange October 2014

<u>"Sustainable Investing: Establishing Long-Term Value and Performance</u>" Mark Fulton, Bruce Kahn, and Camilla Sharples, Deutsche Bank Group Deutsche Bank Group June 2012

"The DOE Loan Program is a Winner: Here's Why the Critics Were Wrong"

Jonathan Silver, Greenbanc Global Huffington Post December 5, 2014

"The Next YieldCo: Charting New Waters" Julien Dumoulin-Smith, Michael Weinstein, and Paul Zimbardo, UBS UBS February 4, 2015

<u>"Venture Investment's Potential to Further Mission Impact for Charitable Foundations"</u> Kiki Tidwell, Tidwell Idaho Foundation Kauffman Fellows Press 2012

Fossil Fuel Prices

"A Cheat Sheet on Lower Oil Prices"

Scott Nyquist, McKinsey&Company McKinsey&Company February 2015

"As Oil Prices Plunge the Politics are Pivotal"

Michael Levi, Council on Foreign Relations Financial Times January 19, 2015

"Vindicating Volatility: Why Fluctuating Oil Prices Are Here to Stay"

Robert McNally and Michael Levi, Council on Foreign Relations Foreign Affairs November 4, 2014

"Why Falling Oil Prices Don't Hurt Demand for Renewable Energy"

Victor Rojas and Paul Stinson, Environmental Defense Fund Environmental Defense Fund January 2015

"Why the World Missed the Oil Price Crash"

Michael Levi, Council on Foreign Relations Washington Post December 5, 2014

Portfolio Management Strategies

"Building a Carbon-Free Equity Portfolio"

Patrick Geddes, Lisa Goldberg, Robert Tymoczko, and Michael Branch, Aperio Group Aperio Group 2014 <u>"Climate Change Scenarios—Implications for Strategic Asset Allocation"</u> Mercer LLC, Carbon Trust, and International Finance Corporation 2011

<u>"Fossil Fuels: Exploring the Stranded Assets Debate"</u> Jane Goodland, Towers Watson Towers Watson 2014

"How to Use Your Risk Budget Sustainably"

Ashby Monk, Stanford University Institutional Investor Blog July 2014

<u>"Inside Stanford's Coal Divestment Decision"</u> Alicia Seiger, Steyer-Taylor Center for Energy Policy and Finance Institutional Investor Blog May 2014

"Navigating Climate Risk: Ceres' Primer for Family Offices"

Lindsey E. White, Ceres Ceres September 2013

"The 21st Century Investor: CERES Blueprint for Sustainable Investing"

Peter Ellsworth and Kirsten Snow Spaulding, Ceres Ceres June 2013

<u>"The New Dawn of Financial Capitalism"</u> Ashby Monk, Stanford University Institutional Investor September 2014

<u>"Towards Sustainable Investment: Taking Responsibility"</u> CalPERS 2012