**OVERVIEW** Climate change policy expert with over 26 years of international and New Zealandbased experience across sectors with delivering innovation in climate change mitigation policy design, evaluation, leadership, and engagement.

**SKILLS** *Policy innovation*: Development of government climate change policies, including emissions trading and national, subnational, and sectoral mitigation strategies.

**Negotiation:** Negotiations under the United Nations Framework Convention on Climate Change (UNFCCC) and between government and large industries.

**Engagement:** Strong technical and policy writing, public speaking, dialogue facilitation, and diplomatic skills with expertise in cross-sector consultation and engagement.

**Project management:** Project development, team management, fundraising, contract/grant management, and conference organising.

Languages: Native English speaker and conversational skills in French.

WORKMotu Economic and Public Policy Research, Wellington, New ZealandEXPERIENCE05/2012 - 12/2012 and 11/2013 - present. Policy Fellow/Research Analyst.

- Leading the programme "Shaping New Zealand's Low-Emission Future" to conduct research and cross-sector dialogue on emissions trading and lowemission transformation. Co-developed a groundbreaking and influential proposal for reforming the New Zealand Emissions Trading Scheme (NZ ETS). Co-authored multiple research papers, international profiles, and guidelines on the NZ ETS. Played a central role in Motu's Low-Emission Future Dialogue and ETS Dialogue.
- Co-authored a global handbook on emissions trading for the World Bank Partnership for Market Readiness (PMR) and International Carbon Action Partnership, and a roadmap for emissions trading in Chile for the PMR.
- Worked with Irish agriculture experts to develop a comparative briefing on mitigating livestock greenhouse gas emissions in New Zealand and Ireland.
- Conceived and helped implement three researcher workshops on improving economic modelling of New Zealand's climate change mitigation policies. Co-authored workshop papers and a synthesis report.
- Organised successful multi-sector engagement activities to build understanding across diverse and influential interest groups on sectoral and economy-wide climate change policy challenges and solutions. Examples include four e-Mission Possible Roundtables to support the Productivity Commission's Low-Emissions Economy inquiry and briefings for businesses on policy and legislation for the NZ ETS and Zero Carbon Bill.
- Conducted national surveys of climate change engagement activity and New Zealanders' climate change actions and beliefs.
- Engaged extensively with government officials, the Productivity Commission and Parliamentary Commissioner for the Environment, businesses, business associations, and environmental NGOs to help inform their climate change policy positions and strategies.
- Supported public education on climate change through frequent participation in conferences, articles in traditional and social media, and academic lectures.

### Silver Lining Global Solutions, Wellington, New Zealand

11/2010 – present. Sole-proprietor climate change consultant.

- For GLOBE-NZ (a cross-party group of Members of Parliament), conducted research and organised engagement for a high-profile study by Vivid Economics on New Zealand's low-emission pathways. Authored a paper on improving emission pricing in New Zealand.
- Researched Nationally Appropriate Mitigation Actions (NAMAs) in Asia.

### Wellington City Council, Wellington, New Zealand.

08/2012 – 11/2013. Principal Programme Advisor, Policy (fixed term).

- Helped develop the Council's Our Living City sustainability programme.
- Led development of Wellington City's 2013-2015 Climate Change Action Plan and a greenhouse gas inventory for the Greater Wellington Region.

**New Zealand Ministry of Foreign Affairs and Trade,** *Wellington, New Zealand* 06/2011 – 12/2011. Senior Policy Officer (fixed term).

• Advanced New Zealand's domestic and international climate change policy and contributed to the Global Research Alliance on Agricultural Greenhouse Gases.

### New Zealand Transport Agency, Wellington, New Zealand

11/2010 – 06/2011. Principal Advisor (contract).

• Assisted with restructuring the Public Transport Effectiveness Action Plan and preparing a public transport framework for New Zealand.

### New Zealand Ministry for the Environment, Wellington, New Zealand

09/2003 – 06/2010. Senior Analyst/Senior Operator. Secondment to the Emissions Trading Group at The Treasury (04/2007 – 10/2008).

- Led negotiation of the Kyoto Protocol's market mechanisms in the New Zealand delegation to the UNFCCC negotiations (12/2008 12/2009).
- Helped to design the innovative policy and legislation for the NZ ETS. Was a core member of the Emissions Trading Group, managed preparation of the government's consultation document, advised the select committee, and contributed to the departmental report.
- Led preparation of the government's consultation document and engagement on post-2012 measures on climate change mitigation.
- Assisted with preparation of New Zealand's national communications to the UNFCCC.
- Led Negotiated Greenhouse Agreements with multiple major-emitting industries, including the only one completed under the formal policy.

#### Center for Clean Air Policy (CCAP), Washington, DC, USA

07/1999 – 08/2003. Senior Policy Analyst and Manager of the Economies in Transition Program.

- Managed an International Dialogue on the Clean Development Mechanism and the first stage of the Future Actions Dialogue to support UNFCCC negotiators.
- Managed a team building domestic capacity on GHG emissions trading and Joint Implementation in Eastern European countries.
- Co-managed a State Roundtable on Global Climate Change to build momentum for leadership by state government.
- Advised two states on their climate change mitigation action plans.

ICF International (formerly ICF Incorporated), Washington, DC, USA

08/1995 – 07/1999. Associate/Analyst.

- Evaluated international GHG mitigation projects for the US Initiative on Joint Implementation.
- Helped prepare the US GHG inventory and co-authored GHG accounting guidelines for USEPA and the World Bank.
- Reviewed GHG inventory/mitigation reports for developing countries.
- Evaluated state government response strategies to accelerated sea level rise.
- Analyzed environmental technology markets for USEPA and USDOE.

# **International City/County Management Association,** *Washington, DC, USA* 10/1993 – 08/1995. Assistant Project Manager/Research Assistant.

• Educated local governments on pollution prevention, watershed management, and environmental justice.

### OTHER ROLES New Zealand Climate Change Commission

• Appointed as a Climate Change Commissioner in December 2019

### **New Zealand Centre for Global Studies**

• Appointed to the Board of Trustees in November 2019

## **EDUCATION Duke University**, Durham, NC, USA

- BS, biology and French, *cum laude* with distinction in biology, 1993.
- Recipient of the merit-based Angier B. Duke Memorial Scholarship.
- Semester programs at the Duke University Marine Laboratory, Oxford University and the Université de Paris I, VII.

### **Other Professional Training**

• Team management, policy leadership, negotiation, machinery of government, speech writing, influencing skills, media interviews and meeting facilitation.

## **PERSONAL** • Trained as a Climate Leader under Al Gore's Climate Reality Project.

- Opera singer.
- Walked 472 km of the Camino in Spain in 2013.

#### PUBLICATIONS AND PRESENTATIONS

- Leining, C., S. Kerr and B. Bruce-Brand. Forthcoming. "The New Zealand Emissions Trading Scheme: Critical Review and Future Outlook for Three Design Innovations." Accepted by *Climate Policy* in November 2019.
- Convery, F., B. Bruce-Brand, T. Donnellan, C. Leining, A. Matthews, and F. O'Mara. 2019. "Climate Policy and Ruminant (Cattle and Sheep) Farming: A New Zealand-Ireland Comparison." Dublin: EnvEcon.
- Leining, C. 2019. "A Community of Practice: Implementation Options." Presentation at Motu's workshop A Community of Practice for New Zealand's Economic Modelling of Climate Change Mitigation, Wellington, 6 March 2019.
- Leining, C. 2019. "A First Step to Pricing Agricultural Emissions." Newsroom, 23 July 2019.
- Leining, C. 2019. "Business Briefing on the Zero Carbon Bill." Presentation at a Motu workshop, Wellington and Auckland, 27 June and 4 July 2019.
- Leining, C. 2019. "Climate Change Mitigation and Emissions Trading." Lecture at Victoria University of Wellington, Wellington, 20 November 2019.
- Leining, C. 2019. "Climate Change Mitigation: New Zealand Policy Context." Presentation to the Department of Conservation, 17 October 2019.
- Leining, C., B. Bruce-Brand, and C. Roberts. 2019. "Climate Explained: How Emissions Trading Schemes Work and They Can Help Us Shift to a Zero Carbon Future. *The Conversation*, 28 August 2019.
- Leining, C. 2019. "Commentary on Introduction of the Zero Carbon Amendment Bill." *New Zealand's Low-Emission Future Blog*, 9 May 2019.
- Leining, C. 2019. "Commentary on Tranche Two Decisions on the New Zealand Emissions Trading Scheme." *New Zealand's Low-Emission Future Blog*, 17 May 2019.
- Leining, C. 2019. "ETS Architecture for Managing Unit Supply and Prices." Presentation at Motu's ETS Dialogue, Wellington, 3 December 2019.
- Leining, C. 2019. "For Emissions Targets to Work, They Need to Be a Catalyst for Action." *The Spinoff*, 18 September 2019.
- Leining, C. 2019. "Forging New Zealand's Pathway to a Low-Emission Economy." Presentation at the 54th University of Otago Foreign Policy School, Dunedin, 30 June 2019.
- Leining, C. 2019. "Greenhouse Gas Recommendations from the Government's Tax Working Group." *New Zealand's Low-Emission Future Blog*, 25 February 2019.
- Leining, C. 2019. "Integrating Climate with Economy Needs to Extend beyond Government." *Spinoff*, 30 May 2019.
- Leining, C. 2019. "PCE Report on 'Farms, Forests and Fossil Fuels': One Lump or Two?" New Zealand's Low-Emission Future Blog, 26 March 2019.
- Leining, C. 2019. "Shaping New Zealand's Low-Emission Future." *EIANZ Climate Change Forum for Environmental Practitioners*, Adelaide, 6 November 2019 (by videoconference).
- Leining, C. 2019. "State of the Nation: The Emission Reduction Landscape." Presentation at *Net Zero New Zealand: The Emissions Workshop*, Wellington, 4 December 2019.
- Leining, C. 2019. "The Future of Natural Gas in New Zealand: Policy Considerations." Presentation at a GNS workshop *The Role of Natural Gas Resources on the Path to a Low-Carbon Economy*, Dunedin, 7 August 2019.
- Leining, C. 2019. "The NZ ETS and Revenue Recycling." Presentation at a Victoria University of Wellington seminar *The Grass Can Be Greener: Sharing the Cost of the Climate*, Wellington, 24 September 2019.

- Leining, C. 2019. "Transitioning toward a Low-Emissions Economy." Presentation at the *Tairāwhiti* Gisborne Circular Economy Conference, Gisborne, 7 May 2019.
- Leining, C. and J. McDermott. 2019. "Climate Change Response (Zero Carbon) Amendment Bill: Submission to the Environment Select Committee," July 2019. (Individual capacity)
- Leining, C. and S. Kerr. 2019. "Outfitting the NZ ETS in Post-Paris Style: 'Top Ten' List for 2019." Motu Note 34. Wellington: Motu Economic and Public Policy Research.
- Kerr, S. and C. Leining. 2019. "Paying for Mitigation: How New Zealand Can Contribute to Others' Efforts." Motu Working Paper 19-09. Wellington: Motu Economic and Public Policy Research.
- Kerr, S. and C. Leining. 2019. "Uncertainty, Risk and Investment and the NZ ETS." Motu Working Paper 19-08. Wellington: Motu Economic and Public Policy Research.
- Leining, C. and S. Kerr. 2019. "Scarcity and Ambition in the NZ ETS." Motu Working Paper 19-07. Wellington: Motu Economic and Public Policy Research.
- Winchester, N., D. White and C. Leining. 2019. "A Community of Practice for Economic Modelling of Climate Change Mitigation in New Zealand." Motu Working Paper 19-12. Wellington: Motu Economic and Public Policy Research.
- Hendy, J., A. Ausseil, I. Bain, E. Blanc, D. Fleming, J. Gibbs, A. Hall, A. Herzig, P. Kavanagh, S. Kerr, C. Leining, L. Leroy, E. Lou, J. Monge, A. Reisinger, J. Risk, T. Soliman, A. Stroombergen, L. Timar, T. van der Weerdan, D. White and C. Zammit. 2018. "Land-Use Modelling in New Zealand: Current Practice and Future Needs." Motu Working Paper 18-16. Wellington: Motu Economic and Public Policy Research.
- Kerr, S. and C. Leining. 2018. "Why NZ's Emissions Trading Scheme Should Have an Auction Reserve Price." *The Conversation*, 18 September 2018.
- Leining, C. 2018. "Beyond the Barricade' The Backstory from a Musical Tribute to Emissions Trading." New Zealand's Low-Emission Future Blog, 23 October 2018.
- Leining, C. 2018. "Emissions Trading and New Zealand's Low-Emission Transition." Lecture at Victoria University of Wellington, 28 November 2018.
- Leining, C. 2018. "Looking beyond Net Zero Targets to Pathways." Conference presentation at *Wellington after Paris: Zero Carbon Capital City*. Wellington, 15 September 2018.
- Leining, C. 2018. "Looking beyond Net-Zero Targets to Pathways." Conference presentation at the ONE New Zealand Summit: This is Why - Our Path to Carbon Zero, Wanaka and Queenstown, 26-27 October 2018.
- Leining, C. 2018. "Making Progress on Climate Change." Presentation at the *Bluegreens Forum*, Darfield, 28 April 2018.
- Leining, C. 2018. "NZ Emissions Trading Scheme: Beyond the Barricade." A musical tribute to the first decade of the New Zealand Emissions Trading Scheme. October 2018. Available <u>online</u>.
- Leining, C. 2018. "Scoping Low-Emission Pathways for New Zealand." Business lunch presentation at MAD4CO's *Thinking for the Future*, Cromwell, 19 March 2018.
- Leining, C. 2018. "This Must Be the Last Budget Where Climate Change Isn't a Top Priority." *The Spinoff*, 17 May 2018.
- Leining, C. 2018. "Transitioning toward a Low-Emissions Economy." Conference presentation at *Net Carbon Neutral Towns*, Christchurch, 23 November 2018.
- Leining, C. 2018. "Understanding and Improving the New Zealand Emissions Trading Scheme." *Sciblogs*, 14 August 2018.
- Leining, C. 2018. "Where to Next for the NZ ETS?" Conference presentation at *New Zealand Environmental Management*, Wellington, 12 April 2018.
- Leining, C. and L. Timar. 2018. "Where to Next for the NZ ETS?" Presentation at the Dairy NZ Climate Change Ambassador Workshop, Wellington, 16 May 2018.

- Leining, C. and S. Kerr. 2018. "A Guide to the New Zealand Emissions Trading Scheme." Wellington: Motu Economic and Public Policy Research.
- Leining, C. and S. Kerr. 2018. "Clear Price Signals in the NZ ETS." Presentation at Motu's *E-Mission Possible Roundtable on Low-Emission Investment and ETS Reform*, Wellington, 14 February 2018.
- Leining, C. and S. Kerr. 2018. Submission on the Ministry for the Environment's discussion document Our Climate Your Say: Consultation on the Zero Carbon Bill, July 2018. (Individual capacity)
- Leining, C., S. Kerr and N. Winchester. 2018. "ETS Consultation Issues: Unit Supply, Prices, Purchasing and Free Allocation." Briefings to participants in the ETS Dialogue and to additional stakeholders. Wellington, 28 August and 11-14 September 2018.
- Leining, Catherine, S. Kerr and N. Winchester. 2018. "Improvements to the New Zealand Emissions Trading Scheme: Submission to the Ministry for the Environment," September 2018. (Individual capacity)
- White, D., N. Winchester, M. Atkins, J. Ballingall, S. Coates, F. de Miguel Mercader, S. Greenhalgh,
  A. Kerr, S. Kerr, J. Leaver, C. Leining, J. Monge, J. Neale, A. Philpott, V. Smart, A. Stroombergen,
  and K. Suomalainen. 2018. "Energy- and Multi-Sector Modelling of Climate Change Mitigation
  in New Zealand: Current Practice and Future Needs." Motu Working Paper 18-15. Wellington:
  Motu Economic and Public Policy Research.
- Kerr, S., C. Leining, J. Silver, P. Brown, N. Brunel, S. Cortes-Acosta, S. Frazer, A. Macey, G. Salmon and P. Young. 2017. "An Effective NZ ETS: Clear Price Signals to Guide Low-Emission Investment." Motu Note 27. Wellington: Motu Economic and Public Policy Research.
- Kerr, S., C. Leining and C. Roberts. 2017. "A New Approach to Emissions Trading in a Post-Paris Climate." *The Conversation*, 6 July 2017.
- Kerr, S., and C. Leining. 2017. "Clear Price Signals in the NZ ETS: Briefing to Accompany Motu Note 27." Presentation slides and videoconference recording. Wellington: Motu Economic and Public Policy Research.
- Leining, C. 2017. "Climate Change: Sparking Transformation." Presentation at the Sustainable Business Council's Climate Action Workshop, AUT, Auckland, 16 February 2017.
- Leining, C. 2017. "Emissions Trading: Why and How?" Presentation to Z Energy, 9 August 2017.
- Leining, C. 2017. "Improving Emission Pricing in New Zealand." Wellington: GLOBE-NZ.
- Leining, C. 2017. "Low-Emission Pathways." Presentation at Motu's *E-Mission Possible Roundtable on Unlocking our Low-Emission Future*, Wellington, 29 November 2018.
- Leining, C. 2017. "New Zealand Emissions Trading Scheme." *Carbon Markets Almanac 2017*. London: ICIS.
- Leining, C. 2017. "The ETS Is Ready to Reduce New Zealand's Emissions." *The Spinoff*, 17 August 2017.
- Leining, C. and S. Kerr. 2017. "A Guide to the New Zealand Emissions Trading Scheme." *Climate Change Issues Paper 2017*. Government of Korea.
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- Leining C., J. Ormsby and S. Kerr. 2017. "Evolution of the New Zealand Emissions Trading Scheme: Linking." Motu Working Paper 17-06. Wellington: Motu Economic and Public Policy Research.
- Motu Economic and Public Policy Research. 2017. "How Does the Emissions Trading Scheme Help NZ Reduce Climate Change?" <u>Video series</u> featuring Suzi Kerr and Catherine Leining. October 2017.
- Motu Economic and Public Policy Research. 2017. "Emissions Pricing in NZ: Tax or Trading?" <u>Video</u> <u>discussion</u> featuring Suzi Kerr and Catherine Leining. July 2017.
- Leining, C. 2016. "Assessing New Zealand's Climate Target Ambition." *New Zealand International Review* 41:2.

- Leining, C. 2016. "Climate Change: Sparking Transformation." Presentation at the Wellington *Low Carbon* Challenge Launch Event, Wellington City Gallery, Wellington, 4 May 2016.
- Leining, C. 2016. "A Timeline of the New Zealand Emissions Trading Scheme." Interactive online information tool. Wellington: Motu Economic and Public Policy Research. Available <u>online</u>.
- Leining, C. 2016. "Latest Updates on the NZ ETS." <u>Video presentation</u> at the *IETA Asia-Pacific Carbon Forum*, Jeju Island, Republic of Korea, 7 September 2016.
- Leining, C. 2016. "Legislative Evolution of the New Zealand Emissions Trading Scheme." Wellington: Motu Economic and Public Policy Research.
- Leining, C., S. Kerr, R. Lubowski, J. Swartz and S. De Clara. 2016. *New Zealand: An Emissions Trading Case Study*. Brussels: IETA.
- Leining, C. 2016. Panel discussion at Wellington premiere of "Ice and Sky" documentary, Te Papa National Museum, Wellington, 20 April 2016.
- Leining, C. 2016. "Time Travelling on the New Zealand Emissions Trading Scheme." Motu Note 22. Wellington: Motu Economic and Public Policy Research.
- Leining, C. and S. Kerr. 2016. "Lessons Learned from the New Zealand Emissions Trading Scheme." Motu Working Paper. Wellington: Motu Economic and Public Policy Research.
- Leining, C. et al. 2016. "Idea Bank of Pathway Milestones for New Zealand's Low-Emission Future." Wellington: Motu Economic and Public Policy Research.
- Leining, C. et al. 2016. "New Zealand's Low-Emission Future: Transformational Pathways." Motu Note 23. Wellington: Motu Economic and Public Policy Research.
- Partnership for Market Readiness (PMR) and International Carbon Action Partnership (ICAP). 2016. *Emissions Trading in Practice: A Handbook on Design and Implementation*. Washington, DC: World Bank. (Contributing author)
- Leining, C. 2015. "Motu's Low-Emission Future Dialogue: Work in Progress." Presentation at the Climate Change Roundtable by the Institute for Governance and Policy Studies at Victoria University, Wellington, 5 November 2015.
- Leining, C. 2015. "New Zealand's Climate Change Landscape." Presentation at the *Wellington Climathon* organised by Climate-KIC, Wellington, 19 June 2015.
- Leining, C. 2015. "New Zealand's Climate Change Landscape." Presentation to foreign diplomats attending the English Language Training for Senior Officials (ELTSO) programme at Victoria University. Wellington, 5 August 2015 and 28 May 2015.
- Leining, C. 2015. "New Zealand's Journey toward a Low-Emission Future: Today's Climate Change Landscape." Motu Note 16. Wellington: Motu Economic and Public Policy Research.
- Leining, C. 2015. "Not a Problem, Someone Else's Problem, My Problem or Our Opportunity? Shifting Attitudes and Behaviour on Mitigating Climate Change." Motu Note 18. Wellington: Motu Economic and Public Policy Research.
- Leining, C. 2015. Panelist at *Keep a Cool World,* a 350.org public information event, Wellington, 9 September 2015.
- Leining, C. 2015. Respondent at the Parliamentary Climate Change Conference *Feasible Ambition: Climate Goals for New Zealand in 2030*, Wellington, 25 September 2015.
- Leining, C., and S. White. 2015. "From Fact to Act: New Zealanders' Beliefs and Actions on Climate Change." Motu Note 19. Wellington: Motu Economic and Public Policy Research.
- Leining, C. 2014. "Shaping Personal Beliefs and Personal Action to Reduce Emissions." Speech at a *Generation Zero Friends for the Future* event, Wellington, 1 September 2014.
- Wellington City Council. 2013. *Wellington City's 2013 Climate Change Action Plan*. Wellington: Wellington City Council. (Project manager and contributing author)

- Motu Economic and Public Policy Research. 2012. Roadmap for Implementing a Greenhouse Gas Emissions Trading System in Chile: Core Design Options and Policy Decision-Making Considerations. Washington, DC: World Bank. (Contributing author and editor)
- Leining, C. 2011. "International Climate Change Negotiations: A Copenhagen Case Study." Guest lecture at Victoria University, Wellington, 5 August 2011.
- Leining, C. 2011. Framework and Roadmap for the NZTA's Public Transport Planning and Investment Activity. Internal working document. Wellington: New Zealand Public Transport Agency. (Manager and lead author)
- Leining, C. 2009. "New Market Mechanisms." Presentation at the International Climate Change Architecture Seminar, Bangkok, 27 September 2009.
- Leining, C. 2009. "The New Zealand Emissions Trading Scheme: Considerations for Linking." Presentation at the UNFCCC side event *Linking of National and Regional Emissions Trading Systems*, Bonn, 10 June 2009.
- Leining, C. 2008. "Linking Emissions Trading Schemes." Panel discussion at the Australia-New Zealand Climate and Business Conference. Auckland, August 2008.
- New Zealand Ministry for the Environment and The Treasury. 2007. *The Framework for a New Zealand Emissions Trading Scheme*. Wellington: MfE. (Manager and contributing author)
- New Zealand Ministry for the Environment. 2006. *Discussion Paper on Measures to Reduce Greenhouse Gas Emissions in New Zealand Post-2012*. Wellington: MfE. (Manager and contributing author)
- New Zealand Ministry for the Environment. 2006. *New Zealand's Fourth National Communication to the United Nations Framework Convention on Climate Change*. Wellington: MfE. (Contributing editor)
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