

Truth in Testimony Disclosure Form

In accordance with Rule XI, clause 2(g)(5)* of the *Rules of the House of Representatives*, witnesses are asked to disclose the following information. Please complete this form electronically by filling in the provided blanks.

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Are you representing yourself or an organization? Self Organization

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FOR WITNESSES APPEARING IN A NON-GOVERNMENTAL CAPACITY

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Are you a fiduciary—including, but not limited to, a director, officer, advisor, or resident agent—of any organization or entity that has an interest in the subject matter of the hearing? If so, please list the name of the organization(s) or entities.

Please list any federal grants or contracts (including subgrants or subcontracts) related to the hearing's subject matter that you or the organization(s) you represent have received in the past thirty-six months from the date of the hearing. Include the source and amount of each grant or contract.

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- I have attached a written statement of proposed testimony.
- I have attached my curriculum vitae or biography.

* Rule XI, clause 2(g)(5), of the U.S. House of Representatives provides:

(5)(A) Each committee shall, to the greatest extent practicable, require witnesses who appear before it to submit in advance written statements of proposed testimony and to limit their initial presentations to the committee to brief summaries thereof.

(B) In the case of a witness appearing in a non-governmental capacity, a written statement of proposed testimony shall include— (i) a curriculum vitae; (ii) a disclosure of any Federal grants or contracts, or contracts, grants, or payments originating with a foreign government, received during the past 36 months by the witness or by an entity represented by the witness and related to the subject matter of the hearing; and (iii) a disclosure of whether the witness is a fiduciary (including, but not limited to, a director, officer, advisor, or resident agent) of any organization or entity that has an interest in the subject matter of the hearing.

(C) The disclosure referred to in subdivision (B)(ii) shall include— (i) the amount and source of each Federal grant (or subgrant thereof) or contract (or subcontract thereof) related to the subject matter of the hearing; and (ii) the amount and country of origin of any payment or contract related to the subject matter of the hearing originating with a foreign government.

(D) Such statements, with appropriate redactions to protect the privacy or security of the witness, shall be made publicly available in electronic form 24 hours before the witness appears to the extent practicable, but not later than one day after the witness appears.

False Statements Certification

Knowingly providing material false information to this committee/subcommittee, or knowingly concealing material information from this committee/subcommittee, is a crime (18 U.S.C. § 1001). This form will be made part of the hearing record.



Witness signature

Date

Statement of Peter A. Erickson

Senior Scientist, Stockholm Environment Institute, U.S. Center

To be presented to:

United States House Committee on Oversight and Reform, Subcommittee on Environment
Hearing on The Role of Fossil Fuel Subsidies in Preventing Action on the Climate Crisis.

April 22, 2021

Thank you to Chairwoman Maloney, Chairman Khanna, Ranking Member Comer, and members of the subcommittee for this opportunity to testify today.

My name is Peter Erickson, and I am a senior scientist and the climate policy program director of the Stockholm Environment Institute's U.S. Center, a research affiliate of Tufts University. My research focuses on the economics and climate consequences of oil and gas extraction and use.

Today my testimony has three main points: (1) Fossil fuel subsidies are an inefficient means of supporting economic activity. (2) They undermine efforts to deal with climate change. And (3) they aggravate the need for improvements in public health.

First, fossil fuel subsidies are an inefficient means of supporting economic activity.

The United States government has subsidized fossil fuel production for more than a century, including by forgiving otherwise required tax payments, through the intangible drilling cost provision and the percentage depletion allowance in the Internal Revenue Code.

The ostensible rationale for these subsidies has been to promote increased production and jobs. However, the vast majority of the value of subsidies goes to new oil and gas wells that are already expected to be profitable and would be developed anyway.

For example, at recent average oil and gas prices (\$64 per barrel oil and \$2.60/mmBtu of gas), my colleagues and I estimate that over 96% of subsidy value would flow directly to excess profits, over and above the profits that would be required to satisfy minimum investment hurdles.¹

Most of the value of these subsidies is therefore not contributing to jobs on the ground.

Even in the few cases where subsidies do lead to increased investment, subsidizing fossil fuels is not an efficient means of creating jobs.

For example, a recent review of fiscal policy measures found that spending in renewables infrastructure would generate almost three times as many full-time jobs compared to spending on fossil fuels.² If job creation is the goal of subsidies, other industries, besides fossil fuels, are better job creators.

Second, fossil fuel subsidies undermine efforts to deal with climate change.³

The process of extracting and combusting oil and gas releases both carbon dioxide and methane emissions, both of which are greenhouse gases.

Addressing dangerous climate change requires winding down emissions from burning fossil fuels. In my research with colleagues, we have used energy scenarios compiled by the Intergovernmental Panel on Climate Change to evaluate how continued production and combustion of fossil fuels compares with the long-term emissions and temperature goals of the Paris Agreement.

In particular, limiting warming to the 1.5°C goal of the Paris Agreement would see global coal, oil, gas production declining each year by about 11%, 4%, and 3%, respectively, over the next decade.⁶

Subsidies to fossil fuel producers work against this outcome, and against the emission reductions required to satisfy the Paris Agreement. They make production and combustion of fossil fuels higher than they would otherwise be, especially during periods of very low oil and gas prices when companies have little or no incentive to drill and pump without them.^{4,5} But whenever these subsidy-driven increases occur, even when relatively small, they still raise global greenhouse gas emissions, undercutting other hard won gains against climate threats.^{1,7}

In addition, besides the direct effects on production and emissions, fossil fuel subsidies also have other adverse impacts on attainment of climate goals. Extra cash flow made available by subsidies can be used not only for drilling, but also for promoting fossil fuels and for political activities that can result in further favoritism towards the fossil fuel industry.⁷

Subsidies can also have symbolic effects, since their continued existence may be read by other nations as a sign that the US government is not taking its commitments to subsidy reform, and consequently climate change action, as seriously as it should be.

For example, in May of 2016, with other G7 governments gathered in Japan, the US committed to eliminate “inefficient” fossil fuel subsidies by 2025^{8,9}. By following through on this commitment, the US would be encouraging other countries to do the same, which would therefore multiply the benefits.

Third, fossil fuel subsidies aggravate the need for improvements in public health.

Subsidies to fossil fuels also contribute to air and water pollution at the community level, working against important public health needs.

For example, my research has found that the intangible drilling cost and percentage depletion subsidies contributed billions of dollars to the valuations of new oil and gas fields in the Appalachian basin between 2008 and 2011, fueling a rapid increase of drilling for shale gas in that region.¹⁰

But, the cumulative costs of the ensuing damage to public health from air pollution in the region substantially outweighed benefits from oil and gas sector employment.¹¹ Further, the economic prosperity that was envisioned by promoters has not materialized.¹²

Exposure to air pollution from oil and gas drilling can also exacerbate socioeconomic inequalities. For example, in the Eagle Ford basin in Texas, it is low-income and Hispanic residents who have been disproportionately exposed to gas flaring.¹³

Closing thoughts

Opponents of fossil fuel subsidy reform often take the position that the long-recognized provisions in the US tax code, like the IDC and percentage depletion allowances, are not subsidies. These opponents often argue that these measures are not subsidies specifically *because* they have existed in the tax code for so long.

But that is wrong. Policy measures and other government support that change the balance sheet of companies at a cost to the public, whether provided through the tax code or otherwise, constitute just as much a subsidy as writing a check, if they provide financial benefits that are not generally available to other industries.^{14,15}

Not only do the IDC and percentage depletion measure meet that definition, but so do many other policy preferences that extend well beyond the tax code.⁴

Regulatory loopholes around cleaning up pollution from abandoned fossil fuel extraction sites, and exemptions from proper management and disposal of hazardous wastes, each provide targeted financial benefits to fossil fuels companies, while also leading to additional, indirect public health impacts.¹ Similarly, systematically inadequate fees for plugging and abandoning oil wells have led to an outstanding cleanup bill of hundreds of billions of dollars that may well be transferred from corporations to the public.^{1,16}

In summary, subsidies to fossil fuel producers hold back the low-carbon energy transition. Fossil fuel subsidies are an inefficient means of supporting economic activity, they undermine efforts to limit climate change, and they aggravate the need for improvements in public health. Government support would be better spent, helping both the economy and the climate, by instead advancing other public policy aims.

Removing fossil fuel subsidies can be an important part of addressing the climate crisis.

Thank you to the committee for this important hearing.

References cited

1. Achakulwisut, P., Erickson, P. & Koplow, D. Effect of subsidies and regulatory exemptions on 2020-2030 oil and gas production and profits in the United States. (in review).
2. Hepburn, C., O’Callaghan, B., Stern, N., Stiglitz, J. E. & Zenghelis, D. Will COVID-19 fiscal recovery packages accelerate or retard progress on climate change? *Oxf. Rev. Econ. Policy* **36(S1)**, (2020).
3. G20. *Leaders’ Statement: The Pittsburgh Summit*.
https://www.g20.org/Content/DE/StatischeSeiten/Breg/G7G20/Anlagen/G20-erklaerung-pittsburgh-2009-en.pdf?__blob=publicationFile (2009).
4. Erickson, P., Down, A., Lazarus, M. & Koplow, D. Effect of subsidies to fossil fuel companies on United States crude oil production. *Nat. Energy* **2**, 891–898 (2017).
5. Krueger, A. B. *Statement of Alan B. Krueger Assistant Secretary for Economic Policy and Chief Economist, US Department of Treasury, to Subcommittee on Energy, Natural Resources, and Infrastructure, United States Senate*. <https://www.treasury.gov/press-center/press-releases/Pages/tg284.aspx> (2009).
6. SEI, IISD, ODI, E3G, & UNEP. *The Production Gap: Special Report 2020*.
<http://productiongap.org/2020report> (2020).
7. Erickson, P. *et al.* Why fossil fuel producer subsidies matter. *Nature* **578**, E1–E4 (2020).
8. G7. *G7 Ise-Shima Leaders’ Declaration*. <https://obamawhitehouse.archives.gov/the-press-office/2016/05/27/g7-ise-shima-leaders-declaration> (2016).
9. Steenblik, R. & Erickson, P. Biden time on fossil fuel subsidies? *Trade Sustain. Rev.* **1**, (2021).

10. Erickson, P. & Achakulwisut, P. *How subsidies aided the US shale oil and gas boom*. (In review).
11. Mayfield, E. N., Cohon, J. L., Muller, N. Z., Azevedo, I. M. L. & Robinson, A. L. Cumulative environmental and employment impacts of the shale gas boom. *Nat. Sustain.* **2**, 1122–1131 (2019).
12. O’Leary, S. *Appalachia’s Natural Gas Counties: Contributing more to the U.S. economy and getting less in return*. <https://ohiorivervalleyinstitute.org/fracking-counties-economic-impact-report/> (2021).
13. Johnston, J. E., Chau, K., Franklin, M. & Cushing, L. Environmental Justice Dimensions of Oil and Gas Flaring in South Texas: Disproportionate Exposure among Hispanic communities. *Environ. Sci. Technol.* **54**, 6289–6298 (2020).
14. WTO. *Agreement on Subsidies and Countervailing Measures*. https://www.wto.org/english/tratop_e/scm_e/subs_e.htm (1994).
15. Koplow, D. Defining and Measuring Fossil Fuel Subsidies. in *The Politics of Fossil Fuel Subsidies and their Reform* (eds. van Asselt, H. & Skovgaard, J.) 23–46 (Cambridge University Press, 2018). doi:10.1017/9781108241946.004.
16. Schuwerk, R. & Rogers, G. *Billion Dollar Orphans: Why millions of oil and gas wells could become wards of the state*. (2020).

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Professional Summary

- Broad expertise in greenhouse gas abatement and policy analysis. Published first-author research articles in prominent journals, including *Climatic Change*, *Climate Policy*, *Energy Policy*, *Environmental Research Letters*, *Environmental Science and Technology*, *Nature*, *Nature Climate Change*, and *Nature Energy*.
- Twenty years experience in environmental policy research and consulting, supported by funders such as UNFCCC, European Commission, World Bank, U.S. EPA, Bloomberg Philanthropies, Energy Foundation, KR Foundation, Schmidt Family Foundation, C40 Cities, World Resources Institute, NRDC, SIDA, U.S. states of Washington and Oregon, Western Climate Initiative, City of Seattle, City of Chicago
- Skilled in economic and financial analysis, modeling, writing, public speaking, project management, communication

Professional Experience

**2008-Present STOCKHOLM ENVIRONMENT INSTITUTE – U.S., SEATTLE, WA
Scientist 2008-2011; Senior Scientist 2012-2021**

Selected Projects and Research

- **Oil market economics.** Leading long-term research into how supply and demand in oil markets interact, and with what CO₂ emissions implications. Major research publications in *Nature*, *Nature Climate Change*, *Nature Energy*, *Climatic Change*, and others. Popular commentary in the *New Yorker*, *Scientific American*, *Seattle Times*, *Salt Lake Tribune*, *Texas Tribune*, others.
- **Emissions implications of new fossil fuel supply infrastructure.** Researching the GHG implications and lock-in of investments in new infrastructure for supplying fossil fuels, such as oil pipelines, coal export facilities, and chemical facilities.
- **GHG emissions abatement potential of the world's cities.** Led a research effort, funded by Bloomberg Philanthropies, on the GHG emissions abatement potential of urban-scale policy levers worldwide.
- **Net emissions impact of the CDM.** Lead researcher for the UNFCCC's High Level Panel on the CDM Policy Dialogue focused on additionality and over- or under-crediting in the CDM. Contributed chapter to major research report.
- **Implications of international offsets on global climate mitigation.** Researched and modeled the supply and environmental efficacy of alternative sources and methods of crediting greenhouse gas offsets from developing countries.
- **Scenarios of domestic offset supply in a U.S. cap-and-trade system.** Lead researcher, with Michael Lazarus, on a partnership between SEI and the World Resources Institute on the economics and emissions implications of domestic greenhouse gas offsets.
- **Embodied emissions in international trade.** Led a research initiative on the embodied emissions in international trade and assessing opportunities to shift trade for both emissions and development benefits.

- **Emissions leakage and the CDM.** With Michael Lazarus, conducted an assessment of the potential for the CDM to induce activity or emissions leakage in the cement, steel, and aluminum sectors.
- **King County (WA) consumption-based GHG inventory and GHG measurement framework.** Led effort to conduct geographic and consumption-based greenhouse gas inventories and recommend a new measurement framework for King County.
- **Role of behavior and consumption in global climate mitigation.** Developed a method to estimate the GHG reductions for a nation or community due to shifts in consumption behaviors. Working paper published summer 2012.
- **City of Seattle (WA) carbon neutral scenario analysis.** Contributing to a technical scenario analysis of how the Seattle community could reduce greenhouse gas emissions to near zero in the next few decades, with a focus on the buildings and transportation sectors.
- **State of Oregon consumption-based GHG inventory.** Peter was the project manager on this effort to develop a consumption-based (rather than production- or geographic-based) GHG inventory for the State of Oregon. Published in *Environmental Science and Technology* in 2012.
- **Europe deep GHG emissions reduction scenario.** Peter developed a deep greenhouse gas reduction scenario for the EU-27's transportation, buildings, and agriculture sectors – the deepest reduction scenario proposed EU-wide at the time of its publication.
- **Greenhouse gas mitigation potential in developing countries (US EPA).** Peter was the lead researcher on a study of greenhouse gas mitigation potential and policies in six developing countries for the U.S. EPA. Published as working paper, June 2009.
- **Industry greenhouse gas benchmarking.** Peter led an assessment of benchmarking as a policy tool for reducing industrial GHGs. Funded by the Washington Department of Ecology and the Energy Foundation.
- **GHG and green energy planning in Mongolia.** Researcher on alternative scenarios of Mongolia's energy development.

2000-2008 CASCADIA CONSULTING GROUP, SEATTLE, WA

Senior Associate (2006-2008); Associate (2002-'05); Project Assistant ('00-'01)

Selected Projects - 2008

- **Climate Change Policy Initiatives (Seattle City Council).** Peter led the development of a legislative agenda to address climate change
- **Energy Efficiency Policy Study (Seattle Office of Sustainability and Environment).** Led a study of energy efficiency policies for existing buildings in Seattle to support Mayor Greg Nickels' Green Building Task Force.
- **Carbon Footprint Calculator (Seattle Office of Sustainability and Environment)** Updated the City of Seattle's greenhouse gas footprint tool for businesses to include a greater focus on business supply chain (included upstream, embedded emissions) and year-to-year tracking.
- **Greenhouse Gas Inventory (Pierce County, Washington).** Oversaw Pierce County's greenhouse gas inventory process.

Selected Projects – Pre-2008

- **Carbon Footprint Calculator (Seattle Office of Sustainability and Environment)** Peter created the City of Seattle's greenhouse gas footprint tool for businesses
- **Other Carbon Footprint Calculators (Various clients).** Peter adapted the Seattle carbon footprint calculator for use by several other state and local jurisdictions

- **Oregon Waste Prevention Strategy (Oregon Department of Environmental Quality).** Peter contributed to research in support of DEQ's Waste Prevention Strategy.
- **Zero Waste Plan (City of Chicago).** Led several tasks of the development of a Zero Waste Plan for the City of Chicago.

Committees

- 2015** Compact of Mayors, City Mitigation Goals – Member of aggregation technical advisory group.
- 2012-2014** WRI GHG Protocol Mitigation Accounting Initiative. Member of the mitigation goals accounting technical working group.
- 2010-2012** ICLEI-US Community Greenhouse Gas Protocol. Member of the lifecycle technical advisory committee

Education

- 1994-1998** Carleton College, Northfield, Minnesota, USA
B.A with major in geology and extensive studies in mathematics, studio art
Magna Cum Laude, Phi Beta Kappa, with distinction in major; GPA: 3.83

Selected Recent (2009-2021) Publications

- Achakulwisut, P., & **Erickson, P.** (2021). Trends in fossil fuel extraction: Implications for a shared effort to align fossil fuel production with climate limits. Stockholm Environment Institute.
- Erickson, P.**, & Achakulwisut, P. (2021). Risks for New Natural Gas Developments in Appalachia. Ohio River Valley Institute.
- Achakulwisut, P., **Erickson, P.**, & Koplow, D. (in review, 2021). Effect of subsidies and regulatory exemptions on 2020-2030 oil and gas production and profits in the United States.
- SEI, IISD, ODI, E3G and UNEP (2020). The Production Gap: Special Report 2020. <http://productiongap.org/> [I was a lead author of Chapter 2 and contributing author to other chapters.]
- Erickson, P.** and Lazarus, M. (2020). Examining Risks of New Oil and Gas Production in Canada. SEI report. Stockholm Environment Institute, US Center, Seattle. <https://www.sei.org/publications/examining-risks-of-new-oil-and-gas-production-in-canada/>
- Erickson, P.** et al. (2020). Why fossil fuel producer subsidies matter. *Nature* 578, E1–E4.
- SEI, IISD, ODI, Climate Analytics, CICERO, & UNEP. (2019). The Production Gap Report 2019. Retrieved from <http://productiongap.org/> [I was the lead author of Chapter 2 and contributing author to other chapters.]
- Koski, J., Kartha, S., & **Erickson, P.** (2019). Principles for aligning US fossil fuel extraction with climate goals. <https://www.sei.org/publications/principles-for-aligning-fossil-fuel-extraction-with-climate-limits/>
- Broekhoff, D., Piggot, G., & **Erickson, P.** (2019). Estimating consumption-based greenhouse gas emissions at the city scale [SEI Report]. <https://www.sei.org/publications/consumption-based-greenhouse-gas-emissions-city-scale/>
- Erickson, P.**, Lazarus, M., & Piggot, G. (2018). Limiting fossil fuel production as the next big step in climate policy. *Nature Climate Change*, 8, 1037–1043. <https://doi.org/10.1038/s41558-018-0337-0>
- Erickson, P.**, & Lazarus, M. (2018). Would constraining US fossil fuel production affect global CO₂ emissions? A case study of US leasing policy. *Climatic Change*, 150, 29–42. <https://doi.org/10.1007/s10584-018-2152-z>

- Broekhoff, D., Piggot, G., & **Erickson, P.** (2018). Building thriving, low-carbon cities: the role of national policies. Stockholm Environment Institute / Coalition for Urban Transitions. Retrieved from <https://www.sei.org/about-sei/press-room/press-releases/low-carbon-cities-policy-options/>
- Erickson, P.** (2018). Confronting carbon lock-in: Canada's oil sands. (Discussion Brief). Seattle: Stockholm Environment Institute. Retrieved from <https://www.sei.org/featured/continued-canadian-oil-sands-production-frustrate-global-climate-goals/>
- Erickson, P.** (2018). Boom or Bust. *The New Yorker*. Retrieved from <https://www.newyorker.com/magazine/2018/01/29/letters-from-the-january-29-2018-issue>
- Erickson, P.** (2018). One of Trump's biggest scandals is happening in Utah. *Salt Lake Tribune*. Retrieved from <https://www.sltrib.com/opinion/commentary/2018/03/08/commentary-one-of-trumps-biggest-scandals-is-happening-in-utah/>
- Erickson, P.,** & Lazarus, M. (2018). How limiting oil production could help California meet its climate goals. Stockholm Environment Institute. Retrieved from <https://www.sei.org/publications/limiting-oil-production-california/>
- Erickson, P.,** & Lazarus, M. (2018). Towards a climate test for industry: Assessing a gas-based methanol plant. Seattle, WA: Stockholm Environment Institute. Retrieved from <https://www.sei.org/publications/assessing-gas-methanol-plant/>
- Erickson, P.,** & Lazarus, M. (2018). One way to break oil dependence: don't drill. *Los Angeles Times*. Retrieved from <http://www.latimes.com/opinion/readersreact/la-ol-le-california-oil-20180817-story.html>
- Erickson., P** (2018). Global impact of oilsands growth could counteract Canada's promised carbon cuts. *National Observer*. Retrieved from <https://www.nationalobserver.com/2018/06/13/analysis/global-impact-oilsands-growth-could-counteract-canadas-promised-carbon-cuts>
- Piggot, G., **Erickson, P.**, van Asselt, H., & Lazarus, M. (2018). Swimming upstream: Addressing fossil fuel supply under the UNFCCC. *Climate Policy*, 18(9), 1189–1202. <https://doi.org/10.1080/14693062.2018.1494535>
- Verkuijl, C., Piggot, G., Lazarus, M., van Asselt, H., & **Erickson, P.** (2018). Aligning fossil fuel production with the Paris Agreement: Insights for the UNFCCC Talanoa Dialogue (Policy Brief). Retrieved from <https://www.sei.org/publications/aligning-fossil-fuel-production-paris-agreement/>

- Down, A., & **Erickson, P.** (2017). Norwegian oil production and keeping global warming 'well below 2°C' (Discussion Brief). Stockholm Environment Institute. Retrieved from <https://www.sei.org/publications/norwegian-oil-production-and-keeping-global-warming-well-below-2c/>
- Erickson, P.** (2017). Obama's Arctic oil ban advances key climate test. *Seattle Times*. Retrieved from <http://www.seattletimes.com/opinion/obamas-arctic-oil-ban-advances-key-climate-test/>
- Erickson, P.** (2017). Final Obama administration analysis shows expanding oil supply increases CO2. Retrieved February 23, 2017, from <https://www.sei-international.org/blog-articles/3617>
- Erickson, P.** (2017). Carbon tangle: Norway must put oil ventures to a "climate test." Retrieved March 20, 2017, from <http://www.climatechangenews.com/2017/03/20/carbon-tangle-norway-must-put-oil-ventures-climate-test/>
- Erickson, P.** (2017). Norway's elections put oil in the spotlight – now what? Retrieved September 21, 2017, from <https://energiogklima.no/kommentar/norways-elections-put-oil-in-the-spotlight-now-what/>
- Erickson, P.** (2017). Rebuttal: Oil Subsidies – More Material for Climate Change Than You Might Think. Retrieved from <https://www.cfr.org/blog/rebuttal-oil-subsidies-more-material-climate-change-you-might-think>
- Erickson, P.** (2017). Texas oil subsidies, at a crossroads. *Texas Tribune*. Retrieved from <https://www.tribtalk.org/2017/11/13/texas-oil-subsidies-at-a-crossroads/>
- Erickson, P.,** & Broekhoff, D. (2017). Baselines for assessing urban GHG abatement need to be transparent. Retrieved from <https://www.sei.org/perspectives/urban-ghg-abatement-baseline-transparency/>
- Erickson, P.,** & Down, A. (2017). How tax support for the petroleum industry could contradict Norway's climate goals (Discussion Brief). Stockholm Environment Institute. Retrieved from <https://www.sei.org/publications/tax-petroleum-norways-climate-goals/>
- Erickson, P.,** Down, A., & Lazarus, M. (2017). How would eliminating subsidies to the U.S. oil industry affect potential oil production and CO2 emissions? (SEI Policy Brief). SEI. Retrieved from <https://www.sei-international.org/publications?pid=3068>
- Erickson, P.,** Down, A., Lazarus, M., & Koplow, D. (2017). Effect of government subsidies for upstream oil infrastructure on U.S. oil production and global CO2 emissions (Working Paper). Seattle, WA: Stockholm Environment Institute (U.S.). Retrieved from <https://www.sei-international.org/publications?pid=3036>

Erickson, P., Down, A., Lazarus, M., & Koplow, D. (2017). Effect of subsidies to fossil fuel companies on United States crude oil production. *Nature Energy*, 2(11), 891–898. <https://doi.org/10.1038/s41560-017-0009-8>

Lee, C. M., & **Erickson, P.** (2017). How does local economic development in cities affect global GHG emissions? *Sustainable Cities and Society*, 35(Supplement C), 626–636. <https://doi.org/10.1016/j.scs.2017.08.027>

Piggot, G., **Erickson, P.**, Lazarus, M., & van Asselt, H. (2017). Addressing fossil fuel production under the UNFCCC: Paris and beyond (Working Paper). Seattle, WA: Stockholm Environment Institute. Retrieved from <https://www.sei.org/publications/fossil-fuel-production-unfccc/>

Piggot, G., **Erickson, P.**, Lazarus, M., & van Asselt, H. (2017). How to address fossil fuel production under the UNFCCC (Policy Brief). Stockholm Environment Institute. Retrieved from <https://www.sei.org/publications/fossil-fuel-production-paris-agreement/>

Erickson, Peter, Adrian Down, Michael Lazarus, Andrew Grant, James Leaton, and Mark Fulton. “Making Future U.S. Offshore Oil Leasing More Consistent with Climate Goals.” Discussion Brief. Seattle, WA: Stockholm Environment Institute, December 2016. <https://www.sei-international.org/publications?pid=3049>

Erickson, Peter, and Tracy Morgenstern. “Fixing Greenhouse Gas Accounting at the City Scale.” *Carbon Management* 0, no. 0 (October 31, 2016): 1–4. doi:10.1080/17583004.2016.1238743.

Erickson, Peter, and Michael Lazarus. “Will the US Align Fossil Fuel Production with Climate Goals?” *Climate Home - Climate Change News*, October 7, 2016. <http://www.climatechangenews.com/2016/10/07/will-the-us-align-fossil-fuel-production-with-climate-goals/>

Erickson, Peter, and Michael Lazarus. “Nailing Down the Numbers on Impacts of Oil and Gas Subsidy Reform,” August 29, 2016. <http://www.theenergycollective.com/petesei/2386636/nailing-down-the-numbers-on-impacts-of-oil-and-gas-subsidy-reform>.

Erickson, Peter, Adrian Down, and Derik Broekhoff. “2014 Seattle Community Greenhouse Gas Emissions Inventory.” Seattle OSE, August 2016. http://sei-us.org/Publications_PDF/Seattle-2012-GHG-inventory-report.pdf.

Erickson, Peter, and Michael Lazarus. “How Would Phasing out U.S. Federal Leases for Fossil Fuel Extraction Affect CO₂ Emissions and 2°C Goals?” Working Paper. Seattle, WA: Stockholm Environment Institute, May 2016. <https://www.sei-international.org/publications?pid=2937>.

- Erickson, Peter.** “U.S. Again Overlooks Top CO2 Impact of Expanding Oil Supply... but That Might Change.” Stockholm Environment Institute, April 30, 2016. <https://www.sei-international.org/blog-articles/3388-us-again-overlooks-top-co2-impact-of-expanding-oil-supply-but-that-might-change>.
- Broekhoff, Derik, **Peter Erickson**, and Carrie Lee. “What Cities Do Best: Piecing Together an Efficient Global Climate Governance.” SEI Working Paper. Seattle, WA, US: Stockholm Environment Institute, November 2015. <https://www.sei-international.org/publications?pid=2862>
- Erickson, Peter**, and Michael Lazarus. “Oil Supply’s Effect on Climate Policy.” Seattle Times. November 12, 2015, sec. A.
- Lazarus, Michael, **Peter Erickson**, and Kevin Tempest. “Supply-Side Climate Policy: The Road Less Taken.” Working Paper. Stockholm Environment Institute, October 2015. <http://www.sei-international.org/publications?pid=2835>.
- Erickson, Peter**, and Kevin Tempest. “Keeping Cities Green: Avoiding Carbon Lock-in due to Urban Development.” Seattle, WA, US: Stockholm Environment Institute, October 2015. <http://www.sei-international.org/publications?pid=2829>.
- Erickson, Peter**, and Michael Lazarus. “Global Emissions: New Oil Investments Boost Carbon Lock-In.” *Nature* 526, no. 7571 (October 1, 2015): 43–43. doi:10.1038/526043c.
- Erickson, Peter**, and Michael Lazarus. “Today’s Oil Drilling Fuels Tomorrow’s Political and Economic Problems.” *The Guardian*, September 28, 2015, sec. Guardian Sustainable Business. <http://www.theguardian.com/sustainable-business/2015/sep/28/arctic-oil-drilling-carbon-obama-shell-goldman-sachs>.
- Erickson, Peter**, Michael Lazarus, and Kevin Tempest. “Carbon Lock-in from Fossil Fuel Supply Infrastructure.” Seattle, WA, US: Stockholm Environment Institute, September 2015. <http://www.sei-international.org/publications?pid=2805>.
- Erickson, Peter**, Sivan Kartha, Michael Lazarus, and Kevin Tempest. “Assessing Carbon Lock-In.” *Environmental Research Letters* 10, no. 8 (2015): 084023. doi:10.1088/1748-9326/10/8/084023.
- Erickson, Peter**, Sivan Kartha, Michael Lazarus, and Kevin Tempest. “Leaving Room for Green Growth: Identifying near-Term Actions to Avoid Long-Term Carbon Lock-In.” Seattle, WA, US: Stockholm Environment Institute, June 2015. <http://www.sei-international.org/publications?pid=2774>.
- Erickson, Peter**, and Michael Lazarus. 2014. “Impact of the Keystone XL Pipeline on Global Oil Markets and Greenhouse Gas Emissions.” *Nature Climate Change* 4 (9): 778–81. doi:10.1038/nclimate2335.

- Erickson, Peter**, Michael Lazarus, and Randall Spalding-Fecher. 2014. "Net Climate Change Mitigation of the Clean Development Mechanism." *Energy Policy* 72 (September): 146–54. doi:10.1016/j.enpol.2014.04.038.
- Erickson, Peter**, and Kevin Tempest. 2014. Advancing Climate Ambition: How City-Scale Actions Can Contribute to Global Climate Goals. SEI Working Paper No. 2014-06. Seattle, WA, US: Stockholm Environment Institute. <http://sei-international.org/publications?pid=2582>.
- Erickson, Peter**, and Kevin Tempest. 2014. Advancing Climate Ambition: Cities as Partners in Global Climate Action. New York: A report to the UN Secretary-General from the UN Secretary General's Special Envoy for Cities and Climate Change, in partnership with the C40 Cities Climate Leadership Group. <http://unenvoy.mikebloomberg.com/>.
- Erickson, Peter**, and Kevin Tempest. 2014. 2012 Seattle Community Greenhouse Gas Emissions Inventory. Seattle OSE. http://sei-us.org/Publications_PDF/Seattle-2012-GHG-inventory-report.pdf.
- Lee, Carrie M., and **Peter Erickson**. 2014. What Impact Can Local Economic Development in Cities Have on Global GHG Emissions? Assessing the Evidence. Working Paper. The New Climate Economy: The Global Commission on the Economy and Climate. Stockholm Environment Institute.
- Von Hippel, David, **Peter Erickson**, Kevin Tempest, and Michael Lazarus. 2014. Strategies for Development of Green Energy Systems in Mongolia Final Report. Seoul: Global Green Growth Institute. www.gggi.org.
- Erickson, Peter**, Xiaodong Wang, Yun Wu, Marcus Lee, and Jeanette Lim. 2013. "Proceedings of the International Workshop on Best Practice of Climate Change Action Plan of C40 Cities in East Asia". The World Bank and the Centre for Liveable Cities.
- Lazarus, Michael, and **Peter Erickson**. 2013. "Greenhouse Gas Emissions Implications of the Keystone XL Pipeline". 2013-11. Stockholm Environment Institute Working Paper. Somerville, MA: Stockholm Environment Institute (U.S.). <http://sei-international.org/publications?pid=2450>
- Erickson, Peter**, and Michael Lazarus. 2013. "Accounting for Greenhouse Gas Emissions Associated with the Supply of Fossil Fuels". SEI discussion brief. Seattle, WA, US: Stockholm Environment Institute. <http://www.sei-international.org/publications?pid=2419>.
- Erickson, Peter**, and Michael Lazarus. 2013. "Assessing the Greenhouse Gas Emissions Impact of New Fossil Fuel Infrastructure". SEI discussion brief. Seattle, WA, US: Stockholm Environment Institute. <http://www.sei-international.org/publications?pid=2384>.

- Erickson, Peter A.**, Michael Lazarus, Chelsea Chandler, and Seth Schultz. 2013. "Technologies, Policies, and Measures for GHG Abatement at the Urban Scale." *Greenhouse Gas Measurement and Management*. doi:10.1080/20430779.2013.806866.
- Lazarus, Michael, Chelsea Chandler, and **Peter Erickson**. 2013. "A Core Framework and Scenario for Deep GHG Reductions at the City Scale." *Energy Policy* 57: 563–574. doi:10.1016/j.enpol.2013.02.031.
- Erickson, Peter A.**, and Michael Lazarus. 2013. "Implications of International GHG Offsets on Global Climate Change Mitigation." *Climate Policy* 13 (4): 433–450. doi:10.1080/14693062.2013.777632.
- Erickson, Peter**, and Chelsea Chandler. 2013. "The Rio Numbers: C40 Cities Can Reduce Greenhouse Gas Emissions by over a Billion Tons per Year in 2030". New York, NY: Stockholm Environment Institute - U.S. for C40 Cities Climate Leadership Group. <http://www.c40.org/research>.
- Lazarus, Michael, **Peter Erickson**, and Randal Spalding-Fecher. 2012. Transitioning away from large-scale power projects: A simple and effective fix for the CDM?. SEI Policy Brief. <http://www.sei-international.org/publications?pid=2204>
- Spalding-Fecher, Randall, Amrita Narayan Achanta, **Peter Erickson**, Erik Haites, Michael Lazarus, Neha Pahuja, Nimisha Pandey, Stephen Seres, and Ritika Tewari. 2012. Assessing the Impact of the Clean Development Mechanism. Report commissioned by the High Level Panel on the CDM Policy Dialogue. UNFCCC CDM Policy Dialogue. http://www.cdmpolicydialogue.org/research/1030_impact.pdf
- Erickson, Peter**, Chelsea Chandler, and Michael Lazarus. 2012. Reducing Greenhouse Gas Emissions Associated with Consumption: A Methodology for Scenario Analysis. Working Paper. Stockholm Environment Institute (U.S.)
- Erickson, Peter**, and Michael Lazarus. 2012. "Revisiting Community-Scale Greenhouse Gas Inventories." *Environ. Sci. Technol.* doi:10.1021/es301366b. <http://dx.doi.org/10.1021/es301366b>.
- Erickson, Peter**, Anne Owen, and Elena Dawkins. 2012. Low-GHG Consumption Strategies and Impacts on Developing Countries. Stockholm, Sweden: Stockholm Environment Institute. <http://www.sei-international.org/publications?pid=2082>.
- Erickson, Peter**, David Allaway, Michael Lazarus, and Elizabeth A. Stanton. 2012. "A Consumption-Based GHG Inventory for the U.S. State of Oregon." *Environ. Sci. Technol.* doi:10.1021/es203731e. <http://pubs.acs.org/doi/abs/10.1021/es203731e>.

- Erickson, Peter**, Michael Lazarus, and Chelsea Chandler. (2012). *Greenhouse Gas Emissions in King County*. Seattle, WA: Stockholm Environment Institute-U.S. Center for the King County Department of Natural Resources and Parks. <http://www.sei-us.org>.
- Erickson, Peter**, Michael Lazarus, Elizabeth A. Stanton, and Frank Ackerman. (2011). Local Consumption, Global Impact: Greenhouse Gas Emissions from Consumption in Oregon. Stockholm Environment Institute (U.S.) for the Oregon Department of Environmental Quality, August 2. www.sei-us.org.
- Erickson, Peter**, Michael Lazarus, Chelsea Chander, and Christian Egenhover (2011). Scoping paper: The potential for CDM induced leakage in energy intensive sectors. Study on the Integrity of the Clean Development Mechanism.
- Kartha, Sivan and **Peter Erickson** (2011). Comparison of Annex 1 and non-Annex 1 pledges under the Cancun Agreements. SEI Working Paper. <http://sei-us.org/publications/id/393>.
- Erickson, Peter** and Michael Lazarus. (2011). The Implications of International Greenhouse Gas Offsets on Global Climate Mitigation. SEI Working Paper. <http://sei-us.org/publications/id/380>.
- Lazarus, Michael, **Peter Erickson**, and Chelsea Chandler. (2011). Getting to Zero: A Pathway to a Carbon Neutral Seattle. SEI, with support from ICF International and Cascadia Consulting Group, for the City of Seattle Office of Sustainability and Environment. http://www.seattle.gov/environment/documents/CN_Seattle_&appendices.pdf
- Erickson, Peter.**, Michael Lazarus, and Alexia Kelly. (2011). The Importance of Programme Design for Potential US Domestic GHG Offset Supply and Quality. *Climate Policy*. doi:10.1080/14693062.2011.579314.
- Lee, Carrie, **Peter Erickson**, Michael Lazarus, and Gordon Smith. (2010). *Greenhouse gas and air pollutant emissions of alternatives for woody biomass residues: Final Draft Version 2.0*. Stockholm Environment Institute - U.S. Center for the Olympic Region Clean Air Agency, November.
- Erickson, Peter**, Chelsea Chandler, and Michael Lazarus. (2010). Considerations of Global Equity and Burden-Sharing in Community-Scale Climate Action Planning. Working Paper. Stockholm Environment Institute - U.S. Center.
- Erickson, Peter**, Michael Lazarus, and Hauke Hermann. (2010). Issues and Options for Benchmarking Industrial GHG Emissions. White Paper. SEI with support from Öko-Institut and Ross & Associates Environmental Consulting Ltd. for the Washington Department of Ecology, June 30. http://www.ecy.wa.gov/climatechange/docs/Benchmarking_White_Paper_Final.pdf.
- Erickson, Peter**, Michael Lazarus, and Alexia Kelly. 2010. Estimates of future supply of international greenhouse gas offsets: a critical review. Project Report. SEI, August. <http://sei-international.org/publications?pid=1583>.

Erickson, Peter, Charles Heaps and Michael Lazarus (2009). *Greenhouse Gas Mitigation in Developing Countries: Promising Options in China, Mexico, India, Brazil, South Africa, and South Korea*. SEI, Somerville (U.S.). 116 pp. SEI Working Paper WP-US-0903.
<http://www.sei-us.org/WorkingPapers/WorkingPaperUS09-03.pdf>

Erickson, Peter, Michael Lazarus, and Alexia Kelly (2009). *How Realistic Are Expectations for the Role of Greenhouse Gas Offsets in U.S. Climate Policy? An Examination of Offset Supply Analyses*. WRI, Washington D.C. (U.S.). 8 pp. World Resources Institute Working Paper.
http://pdf.wri.org/working_papers/greenhouse_gas_offsets_in_us_climate_policy_phase1.pdf

Heaps, Charles, **Peter Erickson**, Sivan Kartha, and Eric Kemp-Benedict (2009). *Europe's Share of the Climate Challenge: Domestic Actions and International Obligations to Protect the Planet*.