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## A LOOK INSIDE NEW YORK'S ANTI-FRACKING ECHO CHAMBER

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### AN ENERGY IN DEPTH WHITEPAPER

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## ABOUT ENERGY IN DEPTH

**E**nergy In Depth is a program of the Independent Petroleum Association of America. The IPAA represents thousands of independent oil and natural gas producers and service companies across the United States. Its members develop 95 percent of the nation's oil and gas wells.

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## EXECUTIVE SUMMARY

On Dec. 17, 2014, New York Gov. Andrew Cuomo (D) announced a ban on so-called high-volume hydraulic fracturing activities in the state of New York. The unprecedented decision overturned two earlier findings from New York state environmental regulators that hydraulic fracturing technology could be applied safely and should be allowed to proceed under stringent regulation.

The decision was at odds with broad agreement among scientists, engineers and regulators from state and federal environmental agencies that hydraulic fracturing has been conducted safely for decades – including, incidentally, in the state of New York. The “ban fracking” agenda endorsed by the Cuomo administration has also been rejected by leading national Democrats, including senior environmental officials in the Obama administration, as simply too extreme. So, how was Gov. Cuomo able to construct a justification for a decision that falls so far outside the mainstream?

This Energy In Depth whitepaper examines the 184-page “public health review,” prepared by Gov. Cuomo’s acting health commissioner to justify the ban, and finds strong evidence of political pressure from an organized and well-funded network of foundations and activist groups opposed to oil and gas development, and particularly shale development, in New York. Research papers praised by the Cuomo administration as “bona fide scientific literature” included reports that were financed and produced almost entirely by professional opposition groups. Moreover, the same group of foundations responsible for funding the research also had strong financial ties to several organizations that define themselves as media organizations which were used to promote the research, and the “ban fracking” campaign groups that, in turn, used the research to lobby and influence the Cuomo administration.

In effect, the foundations were marshaled to create an echo chamber of research, media and campaign activities that drowned out the facts in New York’s debate over hydraulic fracturing and Marcellus development. In particular, this whitepaper spotlights the Health and Environmental Funders Network (HEFN) – led by the Park Foundation – and the Sustainable Markets Foundation (SMF) and six key research studies cited by the Cuomo administration to justify the shale ban:

- Air Concentrations of Volatile Compounds Near Oil and Gas Production: a Community Based Exploratory Study (The Global Community Monitor Paper)
- Toward a Better Understanding and Quantification of Methane Emissions from Shale Gas Development (The Ingraffea & Howarth Paper)
- Environmental Public Health Dimensions of Shale and Tight Gas Development, by Shonkoff (The PSE Paper)
- Gas Patch Roulette: How Shale Gas Development Risks Public Health in Pennsylvania (The Earthworks Paper)
- Methane Contamination of Drinking Water Accompanying gas-well Drilling and Hydraulic Fracturing (The Nicholas School Paper I)
- Increased Stray Gas Abundance in a Subset of Drinking Water Wells Near Marcellus Shale Gas Extraction (The Nicholas School Paper II)

The whitepaper highlights and examines the many substantive issues that undermine the factual basis upon which these research papers are founded, and then maps out from there how the findings of this research are packaged up, sent out to, and promoted aggressively by various media platforms that, in many cases, receive funding from the same sources that underwrite both the development of the original research, and the activist-led advocacy work that amplifies it subsequent to its release.

At almost every turn, these research, media and campaign activities have financial ties to the HEFN and SMF.

For example, when acting New York health commissioner Howard Zucker held up a paper developed by a group called the Global Community Monitor (GCM) paper as an example of “bona fide” research, he failed to mention six of the study’s authors had ties to opposition groups. All three peer reviewers also failed to disclose their personal opposition to shale development, in violation of widely accepted codes of professional conduct. One of the reviewers, who later claimed she was unbiased, is literally the co-founder of New Yorkers Against Fracking.

HEFN and SMF’s financial ties to the groups that produced the GCM paper exceed \$3.7 million. Their ties to media outlets that promoted the GCM paper, including InsideClimate News, Grist and National Public Radio, exceed \$2.2 million. This research and media coverage directly benefited campaign organizations that have received in excess of \$16 million from the HEFN and SMF to build the political case for banning shale development in New York.

## 1.0 BACKGROUND

In December 2014, New York Gov. Andrew Cuomo (D) made national<sup>1</sup> and international<sup>2</sup> headlines when he announced an effective ban on for shale development in the Empire State. At the time of the Cuomo administration's announcement, there had already been a de facto ban in place in New York for six years. This permitting moratorium, which started in 2008, was originally intended for New York's Department of Environmental Conservation (DEC) to conduct an environmental study of the horizontal drilling and hydraulic fracturing technologies necessary to develop the Marcellus Shale, a roughly 350 million-year-old geological formation located thousands of feet below the state's Southern Tier.<sup>3</sup>

N.Y. DEC said the study would build on New York's "rigorous regulatory process" for permitting shallower oil and natural gas wells, which have been routinely drilled in the state "since the 19<sup>th</sup> century."<sup>4</sup> DEC even noted these shallower wells are "so tightly regulated, with a full complement of environmental protections, many people don't even realize that there are approximately 13,000 active oil and gas wells in the state."<sup>5</sup>

In 2009, environmental regulators at DEC concluded<sup>6</sup> natural gas development from the Marcellus Shale could safely proceed in New York and proposed a series of updates to the state's existing oil and natural gas regulations to govern the permitting process. In 2011, the DEC reaffirmed this finding,<sup>7</sup> while adding special protections for the New York City and Syracuse watersheds. According to the DEC regime, these protections would still have allowed development across 85 percent of New York's shale region under "rigorous and effective" regulations.<sup>8</sup> These "state of the art controls" would "protect the state's environmentally sensitive areas while realizing the economic development and energy benefits of the state's natural gas resources," DEC said.<sup>9</sup>

But these draft DEC rules were never enacted. Under pressure from a well-funded<sup>10</sup> "ban fracking" campaign in New York, the Cuomo administration allowed the permitting moratorium to continue to drag on, ad infinitum. Gov. Cuomo called the activists' campaign to deny landowners the ability to develop their mineral rights "literally the most prevalent protest group in the state by far"<sup>11</sup> and in 2014, the incumbent drew a primary challenger whose platform called for a statewide ban on shale development.<sup>12</sup> Gov. Cuomo won the Sept. 9 primary, but his challenger, Fordham University law

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<sup>1</sup> "Cuomo Bans Fracking," *Wall Street Journal*, December 18, 2014, <http://www.wsj.com/articles/cuomo-bans-fracking-1418947374>.

<sup>2</sup> "New York governor Cuomo to ban fracking throughout state," *The Australian*, December 19, 2014, <http://www.theaustralian.com.au/business/wall-street-journal/new-york-governor-cuomo-to-ban-fracking-throughout-state/story-fnay3ubk-1227161065046>.

<sup>3</sup> New York Department of Environmental Conservation, "Draft SGEIS on the Oil, Gas and Solution Mining Regulatory Program: Well Permit Issuance for Horizontal Drilling and High-Volume Hydraulic Fracturing to Develop the Marcellus Shale and Other Low-Permeability Gas Reservoirs," September 30, 2009, [http://www.dec.ny.gov/docs/materials\\_minerals\\_pdf/ogdsgeischap4.pdf](http://www.dec.ny.gov/docs/materials_minerals_pdf/ogdsgeischap4.pdf), 4-15.

<sup>4</sup> New York Department of Environmental Conservation, "Commissioner's Editorial on Marcellus Shale," August 11, 2008, <http://www.dec.ny.gov/energy/46570.html>.

<sup>5</sup> Id.

<sup>6</sup> Jad Mouawad, "State Issues Rules on Upstate Natural Gas Drilling Near City's Water," *New York Times*, September 30, 2009, [http://www.nytimes.com/2009/10/01/nyregion/01drill.html?\\_r=1&](http://www.nytimes.com/2009/10/01/nyregion/01drill.html?_r=1&).

<sup>7</sup> Danny Hakim and Nicholas Confessore, "Cuomo Will Seek to Lift Ban on Hydraulic Fracturing," *New York Times*, June 30, 2011, <http://www.nytimes.com/2011/07/01/nyregion/cuomo-will-seek-to-lift-drilling-ban.html>.

<sup>8</sup> "Here's a preview of the state DEC recommendations for fracking," *The Post-Standard*, June 30, 2011, [http://www.syracuse.com/news/index.ssf/2011/06/heres\\_a\\_preview\\_of\\_the\\_state\\_d.html](http://www.syracuse.com/news/index.ssf/2011/06/heres_a_preview_of_the_state_d.html).

<sup>9</sup> Ibid.

<sup>10</sup> Jon Campbell, "Park Foundation funds anti-fracking groups," *Democrat & Chronicle*, April 15, 2012, <http://roc.democratandchronicle.com/article/20120415/NEWS01/304150016/Park-Foundation-funds-anti-fracking-groups>.

<sup>11</sup> Jon Campbell, "Cuomo: Fracking protestors are everywhere," *Press & Sun-Bulletin*, September 10, 2014, <http://www.pressconnects.com/story/news/local/new-york/2014/09/09/new-york-fracking-cuomo-protest/15351419/>.

<sup>12</sup> Monica Sandreczki, "Teachout a hit among fracking opponents," *North Country Public Radio*, August 12, 2014, <http://www.northcountypublicradio.org/news/story/25715/20140812/teachout-a-hit-among-fracking-opponents>.

professor Zephyr Teachout, took 34 percent of the primary vote.<sup>13</sup> In the Nov. 4 general election, Gov. Cuomo went on to win a second term. Unlike most states, governors in New York do not face term limits,<sup>14</sup> so Gov. Cuomo may run for a third term in 2018.

Six weeks after the election, the Cuomo administration announced on Dec. 17 that it would reject the earlier conclusions of New York's environmental regulators and institute a ban on the issuance of the permits needed to develop oil and gas from shale in New York. Gov. Cuomo's decision to endorse the "ban fracking" agenda broke with two separate findings from his own DEC. It also broke with the conclusions of federal environmental regulators under Democratic<sup>15</sup> and Republican<sup>16</sup> presidents – along with regulators in dozens of oil and gas producing states<sup>17</sup> – which have rejected the "ban fracking" agenda in its entirety. In fact, Gov. Cuomo's decision to adopt the "ban fracking" agenda as official policy was unprecedented and made New York "the first state with significant potential to become a major natural-gas producer to ban fracking."<sup>18</sup>

Gov. Cuomo's endorsement of the fringe "ban fracking" agenda brings New York policy into alignment with the demands of fringe environmental groups.



The "ban fracking" group Food & Water Watch celebrates the New York ban. (Food and Water Watch, <http://www.foodandwaterwatch.org/wp-content/uploads/2014/12/CuomoBan.jpg>.)

It has drawn criticism from inside the mainstream environmental movement and from prominent members of the Democratic Party, where officials – including President Obama<sup>19</sup> – have acknowledged for years that shale development makes energy and environmental goals easier, not harder, to reach.

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<sup>13</sup> Laura Nahmias, "Cuomo's (very) low-turnout primary win," *Capital New York*, September 10, 2014, <http://www.capitalnewyork.com/article/albany/2014/09/8552295/cuomos-very-low-turnout-primary-win>.

<sup>14</sup> The Council of State Governments, "The Book of the States 2013," July 1, 2013, [http://knowledgecenter.csg.org/kc/system/files/4.9\\_2013.pdf](http://knowledgecenter.csg.org/kc/system/files/4.9_2013.pdf).

<sup>15</sup> Carol M. Browner, letter to David A. Ludder, May 5, 1995, <http://energyindepth.org/docs/pdf/Browner-Letter-Full-Response.pdf>.

<sup>16</sup> United States Environmental Protection Agency, "Evaluation of Impacts to Underground Sources of Drinking Water by Hydraulic Fracturing of Coalbed Methane Reservoirs," June 2004, [http://www.epa.gov/ogwdw/uic/pdfs/cbmstudy\\_attach\\_uic\\_exec\\_summ.pdf](http://www.epa.gov/ogwdw/uic/pdfs/cbmstudy_attach_uic_exec_summ.pdf).

<sup>17</sup> Interstate Oil and Gas Compact Commission, "Hydraulic Fracturing," <http://iogcc.publishpath.com/hydraulic-fracturing>.

<sup>18</sup> Erica Orden and Lynn Cook, "New York Moves to Ban Fracking," *Wall Street Journal*, December 18, 2014, <http://www.wsj.com/articles/new-york-gov-andrew-cuomo-administration-moves-to-ban-fracking-1418839033>.

<sup>19</sup> Sean Cockerham, "Obama position on fracking leaves both sides grumbling," *McClatchy DC*, August 23, 2013, <http://www.mcclatchydc.com/2013/08/23/200205/obama-position-on-fracking-leaves.html>.



Former New York City mayor Michael Bloomberg, a major ally of and donor to environmental groups<sup>20</sup> and a United Nations climate envoy,<sup>21</sup> called Gov. Cuomo's decision a "misguided policy" that "doesn't make any sense at all."<sup>22</sup> U.S. Interior secretary Sally Jewell, an avowed and well-known environmentalist,<sup>23</sup> has called bans like New York's the "wrong way to go," and that "localized efforts or statewide efforts [to ban fracking] in many cases don't understand the science behind it."<sup>24</sup> According to earlier statements from Jewell, the activists who believe "fracking is dangerous and should be curtailed full-stop" are ignoring the fact that "fracking has been done safely for decades."<sup>25</sup>

Similarly, California governor Jerry Brown (D) – a celebrated environmentalist<sup>26</sup> whose clashes with the oil and gas industry are legion<sup>27</sup> – flatly refused to lend his support to efforts aimed at banning hydraulic fracturing in the Golden State when the subject came up recently in an interview on *Meet The Press*.<sup>28</sup>

Like Gov. Cuomo in New York, Gov. Brown has been targeted by an aggressive "ban fracking" campaign for years in California. But Gov. Brown has deferred to the expert regulators in his administration and demanded a decision-making process "based on science [and] based on common sense,"<sup>29</sup> not "ideological bandwagons."<sup>30</sup> The California governor even reportedly told a Food & Water Watch activist who confronted him: "Fracking can be done safely and has been happening here for 60 years. ... [W]hat do you want to do? Ship in all this oil from Saudi Arabia instead?"<sup>31</sup>

But the fringe nature of the "ban fracking" agenda was probably best described by another New York Democrat, U.S. Sen. Chuck Schumer, more than seven months prior to Gov. Cuomo's decision. "[O]verall, Democrats throughout the country have supported fracking," Schumer said on MSNBC's popular "Morning Joe" program. "The president has, most of us have, and it's worked quite well."<sup>32</sup>

As noted earlier, the rejection of the "ban fracking" agenda by Obama administration officials and Democratic officeholders does not mean they agree with the oil and gas industry about everything – far from it. Yet when some of the oil and gas industry's toughest critics acknowledge the fundamental safety of hydraulic fracturing – which has been used commercially in the United States since the late

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<sup>20</sup> Andrew Restuccia, "Michael Bloomberg, other donors add \$60 million to Sierra Club's coal fight," *Politico*, April 8, 2015, <http://www.politico.com/story/2015/04/michael-bloomberg-donate-sierra-club-116761.html>.

<sup>21</sup> Amy Harder and Erica Orden, "Bloomberg Criticizes New York Fracking Ban," *Wall Street Journal*, April 8, 2015, <http://www.wsj.com/articles/bloomberg-criticizes-new-york-fracking-ban-1428520873/>.

<sup>22</sup> Ibid.

<sup>23</sup> National Parks Conservation Association, "National Parks Group Praises Obama Nomination of Sally Jewell for Interior Secretary," February 6, 2013, [http://www.npca.org/news/media-center/press-releases/2013/sally\\_jewell\\_npca\\_020613.html](http://www.npca.org/news/media-center/press-releases/2013/sally_jewell_npca_020613.html).

<sup>24</sup> Craig Miller, "Interior Secretary: Local Fracking Bans Are 'Wrong Way To Go,'" *KQED Radio*, January 2, 2015, <http://blogs.kqed.org/science/2015/01/02/interior-secretary-local-fracking-bans-are-wrong-way-to-go/>.

<sup>25</sup> Matthew Daly, "Interior issues new drilling rule on public land," *Associated Press*, May 16, 2013, <http://news.yahoo.com/interior-issues-drilling-rule-public-land-185814592.html>.

<sup>26</sup> Tim Dickinson, "Jerry Brown's Tough-Love California Miracle," *Rolling Stone*, August 29, 2013, <http://www.rollingstone.com/politics/news/jerry-browns-tough-love-miracle-20130829>.

<sup>27</sup> Colin Sullivan, "Jerry Brown's Environmental Record Runs Deep," *New York Times*, October 8, 2010, <http://www.nytimes.com/gwire/2010/10/08/08greenwire-jerry-browns-environmental-record-runs-deep-44334.html?pagewanted=all>.

<sup>28</sup> "Meet the Press Transcript," *NBC News*, March 22, 2015, <http://www.nbcnews.com/meet-the-press/meet-press-transcript-march-22-2015-n328146>.

<sup>29</sup> Ben Adler, "Brown Backs State's Fracking Regulators, Promises Deliberative Process," *KVPR Radio*, March 13, 2013, <http://kvpr.org/post/brown-backs-states-fracking-regulators-promises-deliberative-process>.

<sup>30</sup> Judith Lewis Mernit, "Why are environmentalists mad at Jerry Brown?," *High Country News*, February 2, 2015, <http://www.hcn.org/issues/47.2/why-are-environmentalists-mad-at-jerry-brown>.

<sup>31</sup> Brenna Norton, "Dear Governor Brown: It's Time to Get Your Head Out of the Clouds on Fracking," *Food & Water Watch* (blog), January 15, 2014, <http://www.foodandwaterwatch.org/blogs/dear-governor-brown-its-time-to-get-your-head-out-of-the-clouds-on-fracking/>.

<sup>32</sup> Jon Campbell, "Most Democrats 'have supported fracking,' Schumer says," *Poughkeepsie Journal*, May 5, 2014, <http://www.poughkeepsiejournal.com/story/tech/science/environment/2014/05/05/democrats-supported-fracking-schumer-says/8745909/>.



1940s – it shows how strongly the facts support the continued use of this technology to safely and responsibly develop America’s abundant domestic energy resource base.

It also helps explain why “ban fracking” activists and Cuomo administration officials resorted to such extraordinary tactics to evade the facts and ban shale development in New York for purely political reasons. The remainder of this report outlines how activists manipulated the scientific process to produce and promote “research” that supported their cause, and eventually, used that research to influence the governor’s decision to institute a ban.

## 2.0 GOV. CUOMO'S "BONA FIDE" RESEARCH

To ban hydraulic fracturing for shale development, the Cuomo administration needed an argument for overturning the state of New York's two earlier findings that the development process could proceed safely. Likewise, Cuomo officials needed some excuse, however flimsy, for ignoring similar findings of safety from federal officials and state regulators from outside New York.

To make the argument and find the justification they needed, Cuomo officials produced a 184-page report entitled "A Public Health Review of High Volume Hydraulic Fracturing for Shale Gas Development."<sup>33</sup> Howard Zucker, the governor's acting health commissioner, delivered a slide presentation based on this report during a made-for-television cabinet meeting on Dec. 17, 2014.

Despite almost 70 years of experience with hydraulic fracturing in the context of oil and natural gas development in the United States, Zucker argued that "bona fide scientific literature" about the process "is only now emerging."<sup>34</sup> Later in his presentation, which effectively was used to announce the ban, Zucker asked rhetorically: "Would I let my child play in a field nearby? My answer is no."<sup>35</sup> This prompted Gov. Cuomo to declare: "Frankly, that's enough for me ... because if the state health commissioner doesn't want his kids living there, I don't want my kids living there and I don't want any New Yorkers' kids living there."<sup>36</sup> From there, Gov. Cuomo set the ban in motion.

After the announcement, *New York Magazine* observed that Zucker's presentation was "so one-sided it made you wonder what took so long" for Gov. Cuomo to ban shale development.<sup>37</sup> Interestingly, as the *New York Daily News* reported, Zucker "referred to a family he doesn't actually have" because he is single and "doesn't have kids."<sup>38</sup> The newspaper's editorial board even called Zucker's rhetorical argument "as fact-free as the research he cited to help Cuomo reach the desired outcome."<sup>39</sup>

Indeed, the Cuomo administration's report relies on highly questionable sources, including research papers with strong ties to the fringe activists who helped hasten the ban in New York. Yet these same sources were misrepresented as purveyors and curators of "bona fide" science by Cuomo officials.

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<sup>33</sup> New York Department of Health, "A Public Health Review of High Volume Hydraulic Fracturing for Shale Gas Development," December 2014, [http://www.health.ny.gov/press/reports/docs/high\\_volume\\_hydraulic\\_fracturing.pdf](http://www.health.ny.gov/press/reports/docs/high_volume_hydraulic_fracturing.pdf).

<sup>34</sup> James Gerken, "Gov. Andrew Cuomo To Ban Fracking In New York State," *Huffington Post*, December 17, 2014, [http://www.huffingtonpost.com/2014/12/17/cuomo-fracking-new-york-state\\_n\\_6341292.html](http://www.huffingtonpost.com/2014/12/17/cuomo-fracking-new-york-state_n_6341292.html).

<sup>35</sup> Chris Smith, "Cuomo's Fracking Ban Is (Political) Arts and Science," *New York Magazine*, December 17, 2014, <http://nymag.com/daily/intelligencer/2014/12/cuomos-fracking-ban-isnt-just-about-science.html>.

<sup>36</sup> Kenneth Lovett, "Health Commissioner says he wouldn't want his kids growing near fracking site, but doesn't have children," *New York Daily News*, December 19, 2014, <http://www.nydailynews.com/news/politics/health-chief-mentions-non-existent-kids-fracking-talk-article-1.2050785>.

<sup>37</sup> Smith.

<sup>38</sup> Lovett.

<sup>39</sup> "Junk science led to Cuomo's New York fracking ban," *New York Daily News*, December 19, 2014, <http://www.nydailynews.com/opinion/editorial-cuomo-junk-science-article-1.2050365>.

## 2.1 ACTIVIST AUTHORS

One of the studies Zucker highlighted to justify the ban is the quintessential example of how “ban fracking” research is developed, misrepresented as mainstream science and then used to justify public action. The particular report that Zucker waved in front of the cameras during his presentation was an October 2014 article titled “Air Concentrations of Volatile Compounds Near Oil and Gas Production: A Community-Based Exploratory Study” (hereinafter referred to as “GCM paper”).<sup>40</sup> Using air samples taken by the environmental group Global Community Monitor (GCM), the paper alleges “potentially dangerous” air pollution is “frequently present near oil and gas production sites.”<sup>41</sup>

However, a closer look reveals the article was actually a creation of the “ban fracking” campaign from start to finish. Moreover, it appears that the peer-review process was prejudiced, which prevented earlier detection of the GCM paper’s obvious and myriad flaws.

In the first instance, three of the paper’s authors have ties<sup>42</sup> to GCM, a “ban fracking” group<sup>43</sup> based in California. GCM uses buckets lined with plastic bags to collect questionable air samples and organize political opposition to the oil and gas industry. One of those authors, GCM’s executive director Denny Larson, has even admitted the so-called “bucket brigade” is “not a scientific experiment.”<sup>44</sup> Accordingly, in 2011, public health officials in Colorado rejected GCM’s “bucket brigade” methodology for its “serious technical deficiencies.”<sup>45</sup>

A fourth author of the GCM paper worked for the Center for Environmental Health, which has lobbied to ban oil and gas development in both New York<sup>46</sup> and California.<sup>47</sup> A fifth author lists her employer as the Powder River Basin Resource Council, but she failed to disclose her role as the executive director<sup>48</sup> of the Earthworks affiliate ShaleTest. Earthworks, which serves as ShaleTest’s “fiscal sponsor,”<sup>49</sup> is a national environmental group that leads a coalition of anti-industry groups known as “Stop the Frack Attack.”<sup>50</sup> *Gasland* director Josh Fox advises ShaleTest.<sup>51</sup>

A sixth author spent years lobbying against shale development through a group called Concerned Health Professionals of New York,<sup>52</sup> and even penned a May 2014 letter defending the state’s six-year “de facto moratorium” and demanding “New York State take a leadership role in the nation by

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<sup>40</sup> Gregg P Macey et al., “Air concentrations of volatile compounds near oil and gas production: a community-based exploratory study,” *Environmental Health* 13, no. 82 (October 30, 2014), <http://www.ehjournal.net/content/13/1/82>.

<sup>41</sup> Ibid.

<sup>42</sup> Authors Denny Larson and Ruth Breech work for Global Community Monitor. Mark Chernaik is routinely used as a data analyst by GCM, i.e., Mark Chernaik, memo to Denny Larson, June 21, 2011, <http://www.gcmonitor.org/wp-content/uploads/2013/06/gasseddatasynthesis.pdf>.

<sup>43</sup> Global Community Monitor, “Take action to oppose fracking in California,” [http://org.salsalabs.com/o/1541/p/dia/action3/common/public/?action\\_KEY=15110](http://org.salsalabs.com/o/1541/p/dia/action3/common/public/?action_KEY=15110).

<sup>44</sup> Paul Ryder, ed., *Good Neighbor Campaign Handbook: How to Win* (New York: iUniverse, Inc., 2006), <http://www.ohiocitizen.org/about/finalinside.pdf>, 64.

<sup>45</sup> Colorado Department of Public Health and Environment, “CDPHE Comments on Global Community Monitor Report,” July 25, 2011, <http://energyindepth.org/wp-content/uploads/2014/10/bucket-brigade-2.pdf>.

<sup>46</sup> Center for Environmental Health, “FRACKING & MATERNAL HEALTH: What New York Legislators & Regulators Need to Know,” <http://www.ceh.org/wp-content/uploads/fracking-legislators-brochure-and-resources.pdf>.

<sup>47</sup> Environment America, letter to Governor Jerry Brown, July 24, 2014, [http://environmentcalifornia.org/sites/environment/files/July%2024%20Brown%20unity%20letter\\_1.pdf](http://environmentcalifornia.org/sites/environment/files/July%2024%20Brown%20unity%20letter_1.pdf).

<sup>48</sup> Jenifer Collins, “Community leaders bring data-driven stories to Washington, D.C.,” *Earthjustice* (blog), December 8, 2014, <http://earthjustice.org/blog/2014-december/community-leaders-bring-data-driven-stories-to-washington-d-c>.

<sup>49</sup> ShaleTest, “Welcome to ShaleTest,” <http://www.shaletest.org/>.

<sup>50</sup> Stop the Frack Attack, “Our Structure,” <http://www.stopthefrackattack.org/our-structure/>.

<sup>51</sup> ShaleTest.

<sup>52</sup> David O. Carpenter is listed on Concerned Health Professionals of NY’s “about” page: Concerned Health Professionals of NY, “About,” <http://concernedhealthny.org/about/>.

announcing a formal moratorium.”<sup>53</sup> Elsewhere, the same author has staked out fringe positions against other technologies, including cordless phones, wireless laptops and baby monitors.<sup>54</sup>

But a press release<sup>55</sup> about the GCM paper revealed even greater involvement from shale opposition groups in producing the so-called research. The paper was a “joint project” of GCM and Coming Clean, an environmental justice group.<sup>56</sup> A companion report was issued<sup>57</sup> the same day as the GCM paper. It noted the assistance of even more anti-industry activists, including Bruce Baizel, the energy program director for Earthworks.<sup>58</sup>

But instead of disclosing their roles as professional opponents of shale development, five authors of the GCM paper innocuously described their employers as “organizations whose mission is to reduce exposure to toxic chemicals” and declared they have “no competing financial interest.” A sixth author failed to mention the extensive lobbying work he did in support of the New York shale ban.

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<sup>53</sup> Concerned Health Professionals of New York, letter to Governor Cuomo, May 29, 2014, <http://concernedhealthny.org/wp-content/uploads/2014/05/Medical-Experts-to-Governor-Cuomo-May-29FINAL.pdf>.

<sup>54</sup> BioInitiative Working Group, “BioInitiative 2012 Report Issues New Warnings on Wireless and EMF,” January 7, 2013, <http://bioinitiative.org/report/wp-content/uploads/pdfs/BioInitiativePressRelease1-1-2013.pdf>.

<sup>55</sup> Global Community Monitor, “Warning Signs Press Release,” October 30, 2014, <http://www.gcmonitor.org/warning-signs-press-release/>.

<sup>56</sup> Coming Clean, “Our Vision,” <http://comingcleaninc.org/about-us/vision>.

<sup>57</sup> Coming Clean and Global Community Monitor, “Warning Signs: Toxic Air Pollution Identified at Oil and Gas Development Sites,” October 2014, <http://comingcleaninc.org/assets/media/images/Reports/Warning%20Signs%20Report.pdf>.

<sup>58</sup> Earthworks, “Staff,” <http://www.earthworksaction.org/about/staff>.

## 2.2 SANDRA STEINGRABER: AN ACTIVIST PEER REVIEWER



Activist and peer reviewer Sandra Steingraber. (New Yorkers Against Fracking, <http://goo.gl/uOoHK3>.)

If the GCM paper had gone through a credible peer-review process, the flawed “bucket brigade” methodology and the status of the authors as proud oil and gas opponents may have been exposed. But this did not happen, because all three peer reviewers<sup>59</sup> were also opponents of fracking.

The peer reviewers were led by the co-founder<sup>60</sup> of New Yorkers Against Fracking, Sandra Steingraber, an Ithaca College professor considered “a central voice in the fight against fracking”<sup>61</sup> by her fellow activists. Steingraber’s personal website even states: “Fracking is the imposter in the room ... the problem that masquerades as a solution [and] the deadly enabler that keeps the whole fossil fuel party going far past the time of its curfew.”<sup>62</sup>

Just recently, Steingraber dismissed the economic importance of jobs generated by oil and gas activities, saying, “Fracking as an industry serves men. Ninety-five percent of the people employed in the gas fields are men. When we talk about jobs, we’re talking about jobs for men, and we need to say that...The jobs for women are ‘hotel maid’ and ‘prostitute.’”<sup>63</sup> Thus without any evidence, she single handedly denigrated the achievements of the more than 225,000 women who have recently joined the oil and gas sector.<sup>64</sup>

The second peer reviewer of the GCM paper, Cornell University professor Robert Oswald, joined Steingraber and other activists in lobbying the Cuomo administration to support a ban on fracking,<sup>65</sup> led a local “ban fracking” campaign in his home town,<sup>66</sup> and has even called for local laws to be used in “the war against fracking.”<sup>67</sup> The third reviewer, Washington, D.C.-based physician Jerome Paulson, is also on record supporting a moratorium on all U.S. drilling.<sup>68</sup> But Steingraber, Oswald and Paulson each told *Environmental Health*, the journal that published the GCM paper: “I declare that I have no competing interests.”<sup>69</sup>

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<sup>59</sup> Gregg P Macey et al., “Air concentrations of volatile compounds near oil and gas production: a community-based exploratory study,” *Environmental Health* 13, no. 82 (October 30, 2014), Pre-publication history, <http://www.ehjournal.net/content/13/1/82/prepub>.

<sup>60</sup> Sandra Steingraber, “Fracking,” <http://steingraber.com/category/fracking/>.

<sup>61</sup> New Yorkers Against Fracking, “National, State, and Local Groups Launch Statewide Coalition ‘New Yorkers Against Fracking,’” <http://nyagainstfracking.org/national-state-and-local-groups-launch-statewide-coalition-new-yorkers-against-fracking/>.

<sup>62</sup> Sandra Steingraber, “Fracking.”

<sup>63</sup> Valerie Richardson, “Fracking boom creates jobs for women – only as prostitutes and maids, activist claims,” *Washington Times*, April 20, 2015, <http://www.washingtontimes.com/news/2015/apr/20/fracking-creates-jobs-women-prostitutes-maids-only/#ixzz3XsaQvzig>.

<sup>64</sup> Ibid.

<sup>65</sup> Concerned Health Professionals of New York, letter to Governor Cuomo.

<sup>66</sup> Louis DiPietro, “Ulysses Bans Gas Drilling,” *Ithaca Times*, August 17, 2011, [http://www.ithaca.com/news/trumansburg/ulysses-bans-gas-drilling/article\\_df9e6a48-c8f1-11e0-bc41-001cc4c03286.html](http://www.ithaca.com/news/trumansburg/ulysses-bans-gas-drilling/article_df9e6a48-c8f1-11e0-bc41-001cc4c03286.html).

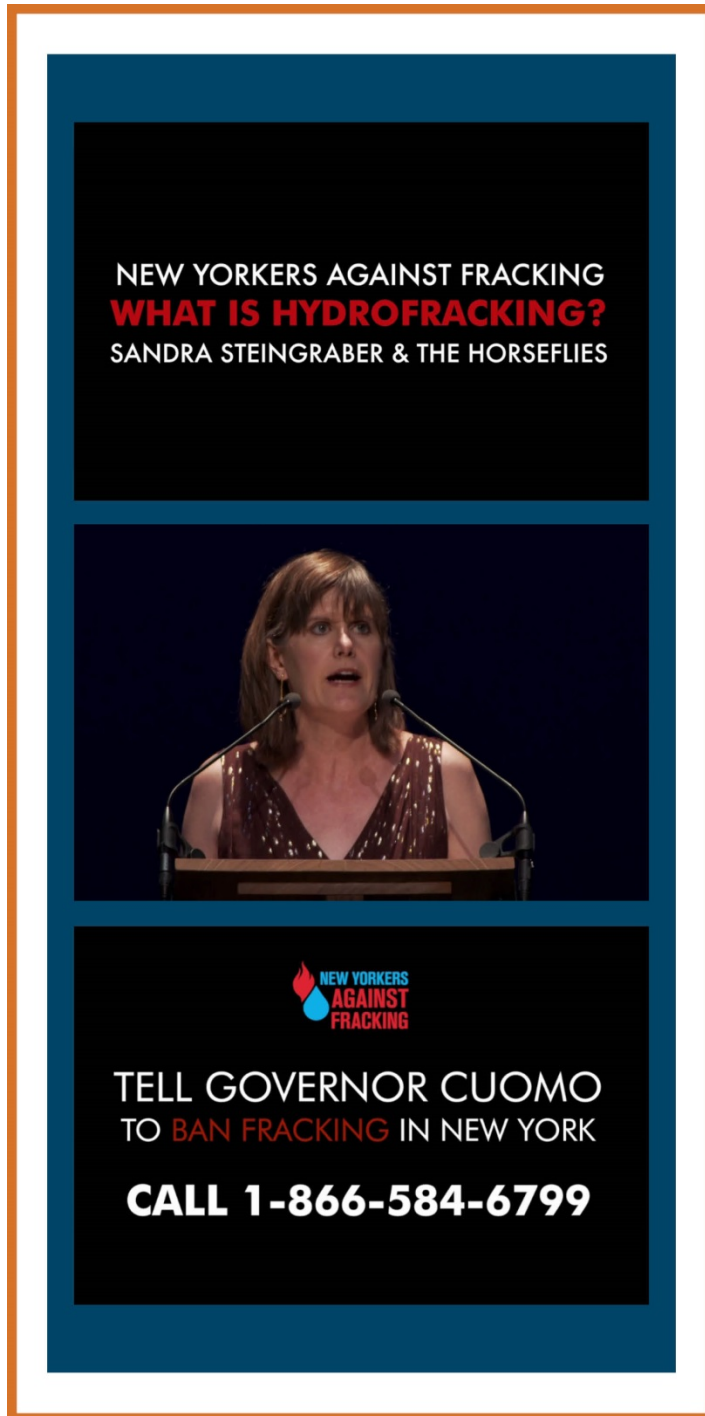
<sup>67</sup> Michelle Bamberger and Robert Oswald, “Zoning Laws, A New Weapon in the War Against Fracking,” *Beacon Broadside*, July 8, 2014, <http://www.beaconbroadside.com/broadside/2014/07/zoning-laws-a-new-weapon-in-the-war-against-fracking.html>.

<sup>68</sup> Walter Brasch, “Fracking: Pennsylvania Gags Physicians,” *The Public Record*, March 18, 2012, <http://pubrecord.org/nation/10228/fracking-pennsylvania-physicians/>.

<sup>69</sup> Sandra Steingraber, “Reviewer’s report,” September 3, 2014, [http://www.ehjournal.net/imedia/2930570031415907\\_comment.pdf](http://www.ehjournal.net/imedia/2930570031415907_comment.pdf); Robert Oswald, “Reviewer’s report,” August 29, 2014,



## 2.3 SUBVERTING THE PEER-REVIEW PROCESS



There is no question that as citizens and advocates, the authors and reviewers of the GCM paper are free to work for and with any organization they wish, lobby the government in a manner consistent with that agenda, and subscribe to any political ideology of their choice. But as researchers, failing to disclose their personal and professional opposition to shale development clearly violates multiple codes of ethical and professional conduct.

The fundamental problem lies in the authors' and reviewers' failure to disclose their real agenda. *Environmental Health* – the journal that published the GCM paper – has editorial standards that require peer reviewers “to declare any competing interests,”<sup>70</sup> both financial and non-financial. According to the journal's publisher, BioMed Central, non-financial competing interests “include (but are not limited to) political, personal, religious, ideological, academic, and intellectual competing interests.”<sup>71</sup>

The journal's disclosure requirements are supported by broader scientific codes of conduct. For example, the World Conference on Research Integrity calls on authors to disclose any interest that “readers might reasonably wish to know” and demands similar transparency from peer reviewers. Failing to disclose “a conflict of interest that would have excluded the reviewer from the process” is considered “reviewer impropriety” by the Council of Science Editors, because “[a] reviewer with strong feelings on a controversial topic might be partial to or biased against a manuscript on the topic and want to publish or reject it regardless of scientific merit.”

The importance of these standards becomes obvious when one realizes that these authors, who were driven by a clear and fairly straightforward agenda, were able to write a paper, review a paper and then convinced the State of New York to act upon the findings of a paper, as if it was independent research. Worse, the paper was misrepresented to the scientific community and the general public as “bona fide” research, not just by the authors and the reviewers, but by New York's acting health commissioner Howard Zucker.<sup>72</sup>

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[http://www.ehjournal.net/imedia/3802048621411160\\_comment.pdf](http://www.ehjournal.net/imedia/3802048621411160_comment.pdf); Jerome Paulson, “Reviewer's report,” August 7, 2014, [http://www.ehjournal.net/imedia/5347429531389532\\_comment.pdf](http://www.ehjournal.net/imedia/5347429531389532_comment.pdf).

<sup>70</sup> *Environmental Health*, “Publication and peer review process,” <http://www.ehjournal.net/about#publication>.

<sup>71</sup> BioMed Central, “Competing Interests,” <http://www.biomedcentral.com/about/editorialpolicies#CompetingInterests>.

<sup>72</sup> Gerken.

When confronted with the facts,<sup>73</sup> the parties to this peer-review scandal reacted with a mixture of silence, in the case of the Cuomo administration, and defiance, in the case of the peer reviewers.<sup>74</sup> In an interview with FOX News, Steingraber denied her research was influenced by her activism, and further claimed she was “conservative and analytical and absolutely objective about the data.” According to the same news report, Steingraber explained she did not disclose her leading role in the campaign to ban shale development in New York because she has “taken no money from the movement.”<sup>75</sup> Clearly, Steingraber’s personal opinion about whether she was biased in her review does not meet the requirements detailed by the publishing journal.

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<sup>73</sup> Simon Lomax, “New York Fracking Ban Throws Peer Review Under the Bus,” *Breaking Energy*, January 14, 2015, <http://breakingenergy.com/2015/01/14/new-york-fracking-ban-throws-peer-review-under-the-bus/>.

<sup>74</sup> Kelly Beaucar Vlahos, “Study used to bolster NY fracking ban developed by anti-fracking ‘activists,’” *Fox News*, January 19, 2015, <http://www.foxnews.com/politics/2015/01/19/study-used-to-bolster-ny-fracking-ban-developed-by-anti-fracking-activists/>.

<sup>75</sup> Ibid.



### **3.0 NEW YORK'S ANTI-FRACKING ECHO CHAMBER**

As Section 1 of this whitepaper discussed in detail, “ban fracking” activists in New York had a big problem on their hands – the facts did not come close to supporting the political outcome they desired. On two prior occasions, New York environmental regulators rejected their calls for a ban on fracking, and the conclusions of federal officials and regulators in other states represented even worse news for their campaign.

The opponents of shale development in New York responded by finding a way to drown out the facts with as much political noise as possible. They built an “echo chamber” in which questionable research was produced, publicized by friendly “media” outlets and politicized by campaign groups to pressure elected officials, particularly Gov. Cuomo, into ignoring what had by then become a mountain of facts in support of shale development’s status as a safe activity when managed properly.

While the GCM paper discussed in Section 2 stands out as the quintessential example of a paper manufactured by activists, it is by no means an isolated incident. In fact, Energy In Depth found at least five other papers relied on by the Cuomo administration that contain a similar bias, which were the product of and championed by the anti-fracking echo chamber.

The story of this anti-fracking echo chamber begins with a little-known foundation in Ithaca, N.Y., called the Park Foundation, which grew to include numerous power players within the environmental movement.

### 3.1 THE PARK FOUNDATION



Adelaide Park Gomer, president of Park Foundation, outlines her strategy for opposing shale development “from every angle” in a 2011 speech. (“2011 CCNY Awards Dinner: Adelaide Gomer speech,” YouTube video, posted by “CommonCauseNY,” December 6, 2011, <https://www.youtube.com/watch?v=OSFXFRM0tHs>.)

Before the campaign against shale development in New York, Sandra Steingraber was best known as a writer and environmental advocate. The 2010 edition of her book, *Living Downstream*, includes the following acknowledgement: “For enabling my work in direct and indirect ways, I thank Adelaide Park Gomer of the Park Foundation...”<sup>76</sup> The book was turned into a film starring Steingraber, and she also listed the Park Foundation as one of the project’s “funders and supporters.”<sup>77</sup>

The Park Foundation, run by the heirs of media baron Roy Park Sr.,<sup>78</sup> is and was a central player in the campaign to ban hydraulic fracturing in New York. Based in Ithaca, N.Y. and with assets of more than \$417 million,<sup>79</sup> the Park Foundation is a significant underwriter of “the fight against shale gas” and “the rock stars of the anti-drilling movement,” including *Gasland* director Josh Fox.<sup>80</sup>

Adelaide Park Gomer, the president of the foundation, spent years campaigning for a fracking ban in New York. In a 2011 speech – titled “New York Should Become the First State to Ban Fracking” – Park Gomer outlined her foundation’s sweeping campaign strategy at an awards dinner hosted by the activist organization Common Cause in New York City:

Perceiving how fracking undermined water and sustainability, we looked for partners to work with around hydrofracking. We approached the issue from every angle. We supported science, research, corporate influence, policy, legal issues, health effects, economic forecasting, grassroots efforts, media, and investment strategies. This is the first time that we used such a comprehensive approach to an issue in concert with so many strategic partners. ...

In our work to oppose fracking, the Park Foundation has simply helped to fuel an army of courageous individuals and NGOs [non-government organizations] ...

There is power in this room. It is important that if Cuomo should change his mind and come out against fracking, he knows that we in this room and our thousands of allies around the state will have his back.<sup>81</sup>

Public television host and commentator Bill Moyers attended the same dinner, and was singled out for special praise by Park Gomer. “If the mainstream media reflected his brilliance, insight, integrity, and courage, our country would be totally transformed,” she said. “We would have a literate and

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<sup>76</sup> Sandra Steingraber, *Living Downstream: An Ecologist's Personal Investigation of Cancer and the Environment* (Da Capo Press: 2010), 384, <http://goo.gl/M1F2Po>.

<sup>77</sup> Ibid, 382.

<sup>78</sup> Park Foundation, “About Us,” <http://www.parkfoundation.org/AboutUs.html>.

<sup>79</sup> Park Foundation, “2013 Form 990,” <http://www.guidestar.org/FinDocuments/2013/166/071/2013-166071043-0adc4adb-F.pdf>.

<sup>80</sup> Mike Soraghan, “Quiet foundation funds the ‘anti-fracking’ fight,” *E&E News*, March 12, 2012, <http://www.eenews.net/stories/1059961204>.

<sup>81</sup> Adelaide Park Gomer, “New York Should Become the First State to Ban Fracking,” *AlterNet*, December 6, 2011, [http://www.alternet.org/story/153336/new\\_york\\_should\\_become\\_the\\_first\\_state\\_to\\_ban\\_fracking](http://www.alternet.org/story/153336/new_york_should_become_the_first_state_to_ban_fracking).

enlightened populace.”<sup>82</sup> From 2009 to 2014, media platforms tied to Moyers have received \$2.5 million in financial support from the Park Foundation,<sup>83</sup> and promoted the work of Steingraber<sup>84</sup> and other activist researchers.<sup>85</sup>

By early 2014, the Park Foundation had issued \$6 million “in grants explicitly related to gas drilling by hydraulic fracturing,” according to *Inside Philanthropy*. Consistent with the foundation’s strategy of opposing shale development “from every angle,” the money went to “grassroots organizing, research on the impacts of fracking, and public education,” along with “media projects,” according to *IP*’s report.<sup>86</sup>

The Senate Environment and Public Works Committee (EPW) singled out the Park Foundation’s strategy as a “manufactured echo chamber,” in a report released in July of 2014.<sup>87</sup> As an example, the report showed Park Foundation grants supporting discredited research<sup>88</sup> into the climate profile of natural gas produced by Cornell University and also supporting the media outlets that promoted the same research. Both the research and the media coverage it generated were then used by New Yorkers Against Fracking, a campaign group funded by the Park Foundation, to support its talking points against shale development and natural gas more broadly.<sup>89</sup>

However, the echo chamber built by the Park Foundation is (by definition) much larger than just one organization. It includes several of the wealthiest foundations involved in environmental grant making, and such power hitters as the Rockefeller Brothers Fund, the Schmidt Family Foundation, and the Energy Foundation.

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<sup>82</sup> Ibid.

<sup>83</sup> Park Foundation, “Grants Awarded,” <http://www.parkfoundation.org/search.php?category=31>.

<sup>84</sup> Moyers & Company, “The Toxic Assault on Our Children,” April 19, 2013, <http://billmoyers.com/episode/the-toxic-assault-on-our-children/>.

<sup>85</sup> Tim McDonnell, “Here’s What Fracking Can Do to Your Health,” *Moyers & Company*, April 22, 2014, <http://billmoyers.com/2014/04/22/heres-what-fracking-can-do-to-your-health/>.

<sup>86</sup> Tate Williams, “The Family Foundation That’s Become a Hero for Fracking Opponents,” *Inside Philanthropy*, April 28, 2014, <http://www.insidephilanthropy.com/home/2014/4/24/the-family-foundation-thats-become-a-hero-for-fracking-oppon.html>.

<sup>87</sup> United States Senate Committee on Environment and Public Works, “The Chain of Environmental Command: How a Club of Billionaires and Their Foundations Control the Environmental Movement and Obama’s EPA,” July 30, 2014, [http://www.epw.senate.gov/public/index.cfm?FuseAction=Files.View&FileStore\\_id=8af3d005-1337-4bc3-bcd6-be947c523439](http://www.epw.senate.gov/public/index.cfm?FuseAction=Files.View&FileStore_id=8af3d005-1337-4bc3-bcd6-be947c523439), 34.

<sup>88</sup> Dan Gearino, “Obama’s former energy secretary says fracking can be done safely,” *The Columbus Dispatch*, September 13, 2013, <http://www.dispatch.com/content/stories/business/2013/09/17/chu-natural-gas-energy-conference.html>.

<sup>89</sup> New Yorkers Against Fracking, “President Obama: Fracked Gas is Not a Solution to Climate Change,” June 27, 2013, <http://nyagainstfracking.org/president-obama-fracked-gas-is-not-a-solution-to-climate-change/>.

### 3.2 THE HEALTH AND ENVIRONMENTAL FUNDERS NETWORK

In recent years, the Park Foundation has amplified its impact by dramatically expanded its influence across the community of environmental donors, enlisting the support of many other wealthy activists. For example, the Park Foundation made the New York hydraulic fracturing debate a priority for the Health and Environmental Funders Network (HEFN), a group of donors with a mission “to maximize philanthropy’s impact on environmental health and environmental justice.”<sup>90</sup>

According to HEFN, the Park Foundation “helped launch and lead a new Health and Environmental Funders Network working group for funders concerned about fracking.”<sup>91</sup> Since then, HEFN has rallied its members in opposition to hydraulic fracturing. For example, it developed a fundraising pitch – titled “Seven Reasons Why Your Foundation Should Pay Attention to Fracking”<sup>92</sup> – and surveyed more than 120 foundations and non-government organizations to find out how much they are spending on the issue.<sup>93</sup> In 2014, HEFN praised the work of its “Hydrofracking Working Group,” noting: “Park and its funding partners have helped build public pressure ... shielding New York’s watersheds from a drilling rush.”<sup>94</sup>

After a detailed review of tax filings and other records, Energy In Depth has identified at least 16 HEFN member foundations with financial ties to research, media and campaign organizations involved in the New York debate over shale development. Those HEFN members are:

- Park Foundation<sup>95</sup>
- The Heinz Endowments<sup>96</sup>
- Rockefeller Brothers Fund<sup>97</sup>
- 11<sup>th</sup> Hour Project of the Schmidt Family Foundation<sup>98</sup>
- Wallace Global Fund<sup>99</sup>
- The Passport Foundation<sup>100</sup>
- Cedar Tree Foundation<sup>101</sup>
- Claneil Foundation<sup>102</sup>
- The Fine Fund<sup>103</sup>
- Forsythia Foundation<sup>104</sup>

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<sup>90</sup> Health and Environmental Funders Network, “Mission & Values,” [http://hefn.org/about/mission\\_values](http://hefn.org/about/mission_values).

<sup>91</sup> Health and Environmental Funders Network, “Protecting Water: Park Foundation Supports Collaborative Defense from Fracking,” [http://hefn.org/sites/default/files/funder\\_stories/protecting\\_water\\_-\\_park\\_foundation\\_final.pdf](http://hefn.org/sites/default/files/funder_stories/protecting_water_-_park_foundation_final.pdf).

<sup>92</sup> Health and Environmental Funders Network, “Seven Reasons Why Your Foundation Should Pay Attention To Fracking,” March 18, 2013, <http://hefn.org/node/115>.

<sup>93</sup> Health and Environmental Funders Network, “FRACKING SURVEY 2012: Report on NGO and Philanthropic Efforts to Address Impacts of Hydraulic Fracturing,” February 2013, [http://hefn.org/sites/default/files/uploaded\\_files/hefn\\_fracking\\_survey\\_report.pdf](http://hefn.org/sites/default/files/uploaded_files/hefn_fracking_survey_report.pdf).

<sup>94</sup> Health and Environmental Funders Network, “Protecting Water: Park Foundation Supports Collaborative Defense from Fracking,” [http://hefn.org/sites/default/files/funder\\_stories/protecting\\_water\\_-\\_park\\_foundation\\_final.pdf](http://hefn.org/sites/default/files/funder_stories/protecting_water_-_park_foundation_final.pdf).

<sup>95</sup> Health and Environmental Funders Network, “Amy Panek,” [http://www.hefn.org/about/steering\\_committee/amy\\_pane](http://www.hefn.org/about/steering_committee/amy_pane).

<sup>96</sup> Health and Environmental Funders Network, “Heinz Endowments,” [http://www.hefn.org/membership/member/heinz\\_endowments](http://www.hefn.org/membership/member/heinz_endowments).

<sup>97</sup> Health and Environmental Funders Network, “Shenyu Belsky,” [http://www.hefn.org/about/steering\\_committee/shenyu\\_belsky](http://www.hefn.org/about/steering_committee/shenyu_belsky).

<sup>98</sup> Health and Environmental Funders Network, “Lauren Davis,” [http://www.hefn.org/about/steering\\_committee/lauren\\_davis](http://www.hefn.org/about/steering_committee/lauren_davis).

<sup>99</sup> Health and Environmental Funders Network, “Wallace Global Fund,” [http://hefn.org/membership/member/wallace\\_global\\_fund](http://hefn.org/membership/member/wallace_global_fund).

<sup>100</sup> Health and Environmental Funders Network, “Passport Foundation,” [http://hefn.org/membership/member/passport\\_foundation](http://hefn.org/membership/member/passport_foundation).

<sup>101</sup> Health and Environmental Funders Network, “Wallace Global Fund,” [http://hefn.org/membership/member/wallace\\_global\\_fund](http://hefn.org/membership/member/wallace_global_fund).

<sup>102</sup> Health and Environmental Funders Network, “Andrea Bretting,” [http://www.hefn.org/about/steering\\_committee/andrea\\_bretting](http://www.hefn.org/about/steering_committee/andrea_bretting).

<sup>103</sup> Health and Environmental Funders Network, “Carolyn Fine Friedman,” [http://www.hefn.org/about/steering\\_committee/carolyn\\_fine\\_friedman](http://www.hefn.org/about/steering_committee/carolyn_fine_friedman).

- The Jenifer Altman Foundation<sup>105</sup>
- The John Merck Fund<sup>106</sup>
- The Kresge Foundation<sup>107</sup>
- The Marisla Foundation<sup>108</sup>
- The New York Community Trust<sup>109</sup>
- The California Wellness Foundation<sup>110</sup>

Many of these organizations were discussed in greater details in the Senate EPW Report, “The Chain of Environmental Command: How a Club of Billionaires and Their Foundations Control the Environmental Movement and Obama’s EPA.” For purposes of clarity, this Energy In Depth whitepaper focuses on the donors’ activities in their capacity as members of HEFN or donors to the Sustainable Markets Fund (SMF).

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<sup>104</sup> Health and Environmental Funders Network, “Forsythia Foundation,” [http://www.hefn.org/membership/member/forsythia\\_foundation](http://www.hefn.org/membership/member/forsythia_foundation).

<sup>105</sup> Health and Environmental Funders Network, “Jenifer Altman Foundation,” [http://hefn.org/membership/member/jenifer\\_altman\\_foundation](http://hefn.org/membership/member/jenifer_altman_foundation).

<sup>106</sup> Health and Environmental Funders Network, “Christine James,” [http://www.hefn.org/about/steering\\_committee/christine\\_james](http://www.hefn.org/about/steering_committee/christine_james).

<sup>107</sup> Health and Environmental Funders Network, “Kresge Foundation,” [http://www.hefn.org/membership/member/kresge\\_foundation](http://www.hefn.org/membership/member/kresge_foundation).

<sup>108</sup> Health and Environmental Funders Network, “Marisla Foundation,” [http://www.hefn.org/membership/member/marisla\\_foundation](http://www.hefn.org/membership/member/marisla_foundation).

<sup>109</sup> Health and Environmental Funders Network, “Pat Jenny,” [http://www.hefn.org/about/steering\\_committee/pat\\_jenny](http://www.hefn.org/about/steering_committee/pat_jenny).

<sup>110</sup> Health and Environmental Funders Network, “Earl Lui,” [http://www.hefn.org/about/steering\\_committee/earl\\_lui](http://www.hefn.org/about/steering_committee/earl_lui).

### 3.3 THE SUSTAINABLE MARKETS FOUNDATION

Outside the HEFN, the Park Foundation enlisted another key ally: The Sustainable Markets Fund (SMF). Park Foundation board member Jay Halfon<sup>111</sup> serves as the director and general counsel of SMF,<sup>112</sup> which has supported various groups involved in the campaign to ban hydraulic fracturing in New York. For example, SMF has supported the “ban fracking” activism of Hollywood actor Mark Ruffalo, through a group called Water Defense,<sup>113</sup> and performance artist Yoko Ono, through a group called Artists Against Fracking.<sup>114</sup>

Likewise, the SMF has also made targeted contributions in the areas of research, media and campaigning, in line with the strategy developed by the Park Foundation and adopted by HEFN. It is also worth noting that several HEFN foundations, including the Park Foundation, Rockefeller Brothers Fund and the Schmidt Family Foundation, are direct donors to SMF. Additionally, Energy In Depth found that SMF received significant support from allies in the environmental movement, including the Tides Foundation, the Gordon and Betty Moore Foundation, the Energy Foundation, and the Rockefeller Family Fund. Recent contributions are summarized below:

Foundation	Amount	Years	Source
David and Lucile Packard Foundation	50,000.00	2011	2011 Form 990
Energy Foundation	726,260.00	2010-2012	2010-2012 Forms 990
Gordon & Betty Moore Foundation	30,000.00	2010	2010 Form 990
Marisla Foundation	100,000.00	2010-2011	2010-2011 Forms 990
Park Foundation	576,400.00	2010-2012	2010-2012 Forms 990
Rockefeller Brothers Fund	203,000.00	2010-2011	2010-2011 Forms 990
Rockefeller Family Fund	480,000.00	2010-2012	2010-2012 Forms 990
Schmidt Family Foundation	1,190,000.00	2010-2012	2010-2012 Forms 990
Tides Foundation	125,000.00	2012-2013	2012-2013 Forms 990
Wallace Global Fund	435,000	2010-2012	2010-2012 Forms 990
<b>Total</b>	<b>3,915,660.00</b>	<b>2010-2013</b>	<b>Forms 990</b>

<sup>111</sup> Park Foundation, “Board of Trustees,” <http://www.parkfoundation.org/board.html>.

<sup>112</sup> Sustainable Markets Foundation, “2012 Form 990,” [http://990s.foundationcenter.org/990\\_pdf\\_archive/134/134188834/134188834\\_201308\\_990.pdf?\\_ga=1.57197098.1285818557.1427489005](http://990s.foundationcenter.org/990_pdf_archive/134/134188834/134188834_201308_990.pdf?_ga=1.57197098.1285818557.1427489005).

<sup>113</sup> Sustainable Markets Foundation, “2011 Form 990,” [http://990s.foundationcenter.org/990\\_pdf\\_archive/134/134188834/134188834\\_201208\\_990.pdf?\\_ga=1.203531664.1285818557.1427489005](http://990s.foundationcenter.org/990_pdf_archive/134/134188834/134188834_201208_990.pdf?_ga=1.203531664.1285818557.1427489005).

<sup>114</sup> “New York fracking foes: We’ll become lobby if necessary,” *Associated Press*, March 19, 2013, <http://www.politico.com/story/2013/03/new-york-fracking-foes-will-become-lobby-if-necessary-89059.html>.

### 3.4 HEFN REVENUES IN CONTEXT

Taken together, the HEFN members involved in the New York shale debate have extraordinary resources at their disposal. They have combined assets of more than \$10.6 billion and annual revenues of \$857 million:

Foundation	Assets	Revenue	Source
Park Foundation, Inc.	417,289,515	37,153,566	2013 Form 990
The Heinz Endowments	1,601,995,851	120,540,889	2013 Form 990
Rockefeller Brothers Fund, Inc.	751,804,582	9,598,720	2011 Form 990
11th Hour Project of the Schmidt Family Foundation	412,014,860	101,969,565	2013 Form 990
Wallace Global Fund	169,699,416	7,887,071	2013 Form 990
The Passport Foundation	30,224,961	6,819,219	2013 Form 990
Cedar Tree Foundation	98,969,569	8,437,479	2013 Form 990
Claneil Foundation, Inc.	69,343,689	4,882,329	2013 Form 990
The Fine Fund	548,308	200,136	2013 Form 990
Forsythia Foundation	24,491,654	3,109,702	2013 Form 990
The Jenifer Altman Foundation	5,920,277	-391,898	2012 Form 990
The John Merck Fund	78,359,185	7,579,266	2013 Form 990
The Kresge Foundation	3,543,405,167	179,728,575	2013 Form 990
The Marisla Foundation	49,580,734	41,002,238	2013 Form 990
The New York Community Trust	2,443,372,250	284,147,204	2013 Form 990
The California Wellness Foundation	939,762,194	45,063,655	2013 Form 990
<b>Total</b>	<b>10,636,782,212</b>	<b>857,727,716</b>	

To put this in some perspective, based on these revenues, this group of foundations is almost three times bigger than the Independent Petroleum Association of America, the American Petroleum Institute and America's Natural Gas Alliance combined.

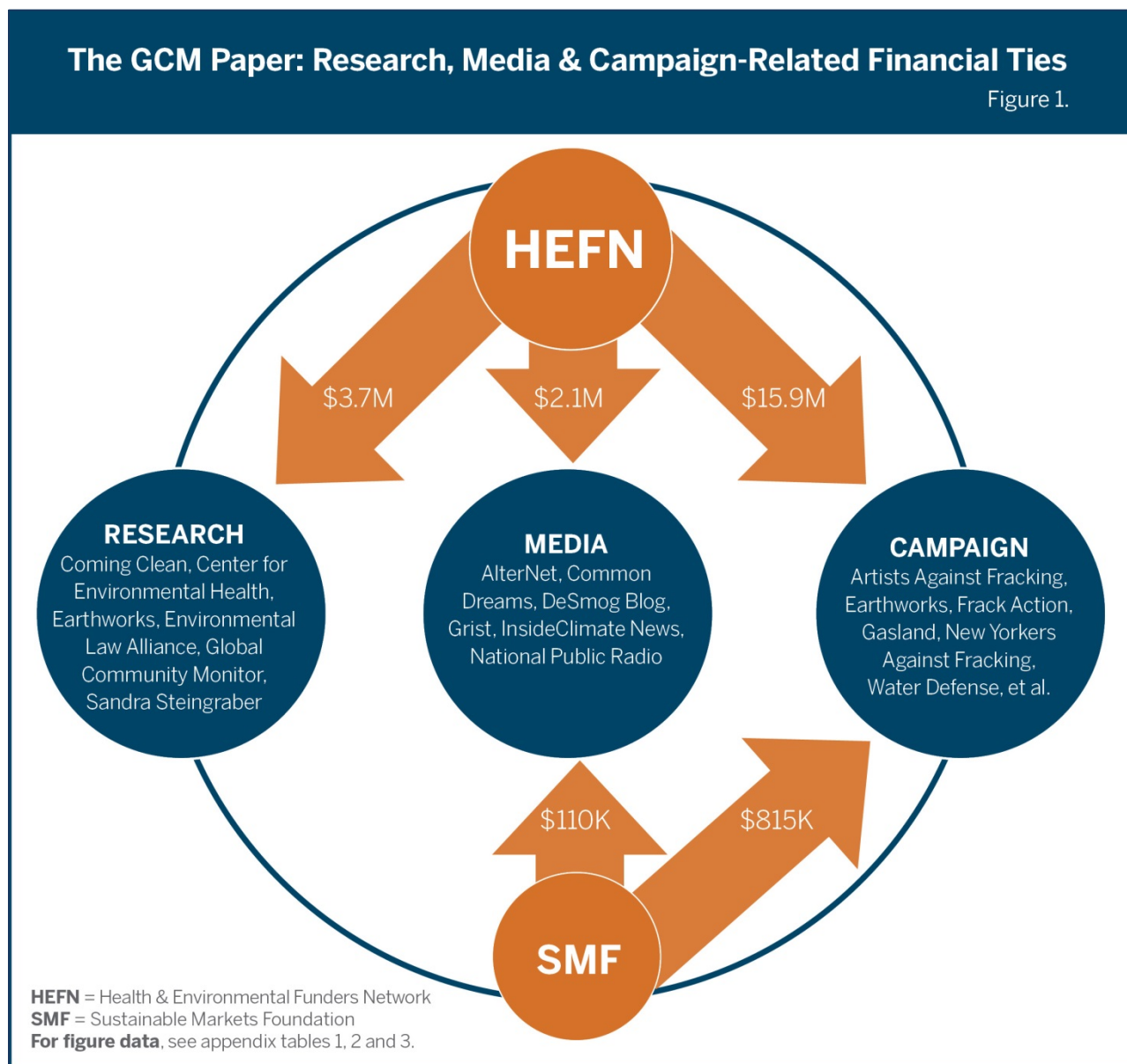


#### **4.0 THE ECHO CHAMBER IN ACTION: RESEARCH, MEDIA AND CAMPAIGN SPENDING**

According to research conducted by Energy In Depth, the Cuomo administration used at least six studies to justify the New York fracking ban that were all part of a broader anti-fracking campaign led by HEFN and SMF. In sum, HEFN and SMF paid for the development and dissemination of these papers, which allege air, water and health impacts from oil and gas development, and then financially supported media outlets that promoted those papers. It appears that this echo chamber was manufactured to provide cover for Cuomo's decision to ban fracking.

These financial relationships clearly show HEFN and SMF were heavily invested in securing an outright ban on hydraulic fracturing in New York. Yet the strategy of these funders to campaign against shale development from every angle, even if it meant politicizing the scientific process, has remained mostly out of the public eye. This is primarily because researchers with financial ties to these foundations did not disclose the strongly held views of their funders on energy and environmental policy, or in some cases, the existence of these financial ties at all. These ties have been uncovered only after a meticulous review of tax filings that the institutions are required to submit.

## 4.1 THE GCM PAPER



The Global Community Monitor Paper claims “potentially dangerous” air pollution is “frequently present near oil and gas production sites.”<sup>115</sup> However, as discussed in Section 2, the paper relied on a discredited method of collecting air samples – buckets lined with plastic bags – and the authors and peer reviewers were shale development opponents.

As shown in Figure 1, the Park Foundation and other HEFN members have financial relationships totaling more than \$3.7 million with the environmental groups that produced the GCM paper. HEFN members have contributed more than \$2.2 million to media outlets, including InsideClimate News, Grist and National Public Radio, that provided coverage of the GCM paper or the researchers who produced it. Likewise, SMF has contributed \$110,000 to the “DeSmog Blog.”

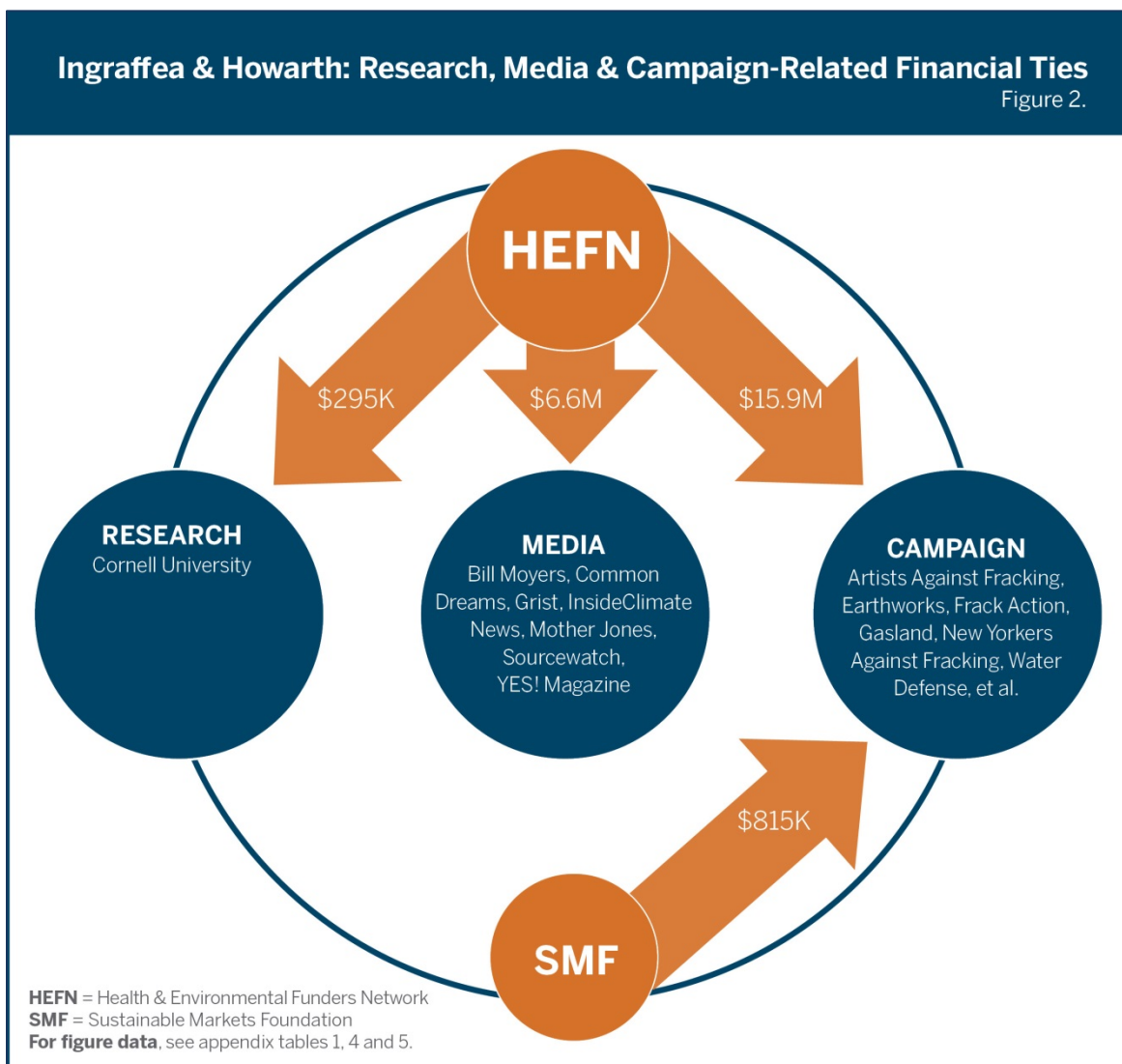
HEFN members also have financial ties of \$15.9 million to the groups that campaigned for the New York fracking ban, and the SMF contributed another \$815,000. These campaign groups include New

<sup>115</sup> Gregg P Macey et al., “Air concentrations of volatile compounds near oil and gas production: a community-based exploratory study,” *Environmental Health* 13, no. 82 (October 30, 2014), <http://www.ehjournal.net/content/13/1/82>.

Yorkers Against Fracking, which was co-founded by Sandra Steingraber, one of the peer-reviewers of the GCM paper. Similarly, the activist group Earthworks – a contributor to the GCM paper – has both research and campaign-related financial ties to HEFN members.

The overlap between research and campaigning is not accidental. In fact, the dual roles of activists like Steingraber and groups like Earthworks only add to the effectiveness of New York's "ban fracking" echo chamber.

## 4.2 INGRAFFEA & HOWARTH PAPER



The paper, “Toward a Better Understanding and Quantification of Methane Emissions from Shale Gas Development,”<sup>116</sup> claims emissions from developing natural gas wells are dramatically higher than U.S. Environmental Protection Agency (EPA) estimates. Two of the studies’ authors, Ingraffea and Howarth, have made this claim before,<sup>117</sup> yet the findings of this paper are contradicted by a more comprehensive study, which was led by a national environmental group, and by EPA’s most recent Greenhouse Gas Inventory (among other scholarship and data). Moreover, Ingraffea and Howarth’s broader work on emissions from shale wells is widely viewed as misleading.

In one paper from Ingraffea and Howarth, the conclusion was put forth that seven well pads in the region showed emissions “2 to 3 orders of magnitude greater than US Environmental Protection Agency estimates” for the drilling phase of a well based on two flyovers of southwestern Pennsylvania.<sup>118</sup> However, another study from the Environmental Defense Fund and University of

<sup>116</sup> Dana R. Caulton et al., “Toward a better understanding and quantification of methane emissions from shale gas development,” *Proceedings of the National Academy of Sciences of the United States of America* 111, no. 17 (April 29, 2014), <http://www.pnas.org/content/111/17/6237.abstract>.

<sup>117</sup> “Meet Anthony Ingraffea—From Industry Insider to Implacable Fracking Opponent,” *EcoWatch*, January 2, 2013, <http://ecowatch.com/2013/01/02/industry-insider-to-fracking-opponent/>.

<sup>118</sup> Caulton et al.

Texas took “direct on-site measurements” of methane emissions at 190 onshore natural gas production sites and found that total emissions were “comparable with the most recent EPA national GHG inventory.”<sup>119</sup> The EDF-UT paper was also notable because of the involvement of energy companies and environmental donors,<sup>120</sup> including Tom Steyer.<sup>121</sup> Subsequently, the EPA’s most recent Greenhouse Gas Inventory, released in April 2015, found that from 1990 to 2013, methane emissions from field production decreased by 21 percent, and emissions from all natural gas systems decreased by 12 percent.<sup>122</sup> The EPA credits the oil and gas industry’s voluntary operational improvements and implementation of new technologies for the decline in emissions.<sup>123</sup>

True to form, the authors of the Ingraffea et al paper declared no conflict of interest.<sup>124</sup> But, as shown in Figure 2, Ingraffea and Howarth’s research was supported by grants totaling \$295,000 from the Park Foundation. Ingraffea is a well-known activist and opponent of shale development,<sup>125</sup> who recently conceded that his research is a “form of advocacy” and that he inserts “advocacy-laced words and phrases in our papers.”<sup>126</sup> Likewise, Howarth has rallied<sup>127</sup> against shale development in New York and cheered Gov. Cuomo’s announcement of the New York ban.<sup>128</sup>

Moreover, the pair’s work on oil and gas sector emissions has been repeatedly discredited by studies from a wide range of sources, including researchers with the Massachusetts Institute of Technology and Carnegie Mellon University.<sup>129</sup> Steven Chu, President Obama’s former energy secretary and winner of the 1997 Nobel Prize in Physics, has even said the following about Ingraffea and Howarth’s research: “[W]e didn’t think it was credible, I’ll just put it that way.”<sup>130</sup>

Despite the discredited status of Ingraffea and Howarth, the Ingraffea et al paper received sympathetic media coverage from news outlets that have received \$6.6 million from HEFN member foundations. For example, *Common Dreams*, which received \$100,000 from Park Foundation from 2010 to 2014, published an article titled “Study: Fracking Emissions Up To 1000x Higher Than EPA Estimates.”<sup>131</sup> *Grist*, which has received more than \$700,000 in grants from HEFN members, cited the study in an article headlined, “Frackers are flooding the atmosphere with climate-warming methane.”<sup>132</sup>

Months later, the online platform for Bill Moyers, whose media projects have received \$4 million from HEFN members, covered the speech of New Yorkers Against Fracking co-founder Sandra

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<sup>119</sup> David T. Allen et al., “Measurements of methane emissions at natural gas production sites in the United States,” *Proceedings of the National Academy of Science* 110, no. 44 (October 29, 2013), <http://www.pnas.org/content/110/44/17768.full>, 17768, 17772.

<sup>120</sup> Allen et al., Acknowledgments.

<sup>121</sup> Jaime Fuller, “Tom Steyer’s long road to becoming the environment’s donor-in-chief,” *Washington Post*, February 27, 2014, <http://www.washingtonpost.com/blogs/the-fix/wp/2014/02/27/tom-steyers-long-road-to-becoming-the-environments-donor-in-chief/>.

<sup>122</sup> U.S. Environmental Protection Agency, “Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990 – 2013,” April 15, 2015, <http://www.epa.gov/climatechange/Downloads/ghgemissions/US-GHG-Inventory-2015-Main-Text.pdf>, ES-6 and ES-14.

<sup>123</sup> *Ibid.*, ES-14.

<sup>124</sup> Caulton et al., Acknowledgments.

<sup>125</sup> “Meet Anthony Ingraffea—From Industry Insider to Implacable Fracking Opponent,” *EcoWatch*, January 2, 2013, <http://ecowatch.com/2013/01/02/industry-insider-to-fracking-opponent/>.

<sup>126</sup> Randy Hildreth, “Leading Anti-Fracking Professor: Our Studies are ‘A Form of Advocacy,’” *Energy In Depth* (blog), April 10, 2015, <http://energyindepth.org/national/leading-anti-fracking-professor-our-studies-are-a-form-of-advocacy/>.

<sup>127</sup> “Cornell’s Howarth calls natural gas from shale nearly as dirty as coal -- or dirtier,” YouTube video, posted by “Dissenta diForeva,” September 16, 2010, <https://www.youtube.com/watch?v=1JN6VXHTcZ0>.

<sup>128</sup> Cornell University Media Relations Office, “Fracking ban the right economic, environmental and health decision,” December 17, 2014, <http://mediarelations.cornell.edu/2014/12/17/fracking-ban-the-right-economic-environmental-and-health-decision/>.

<sup>129</sup> “Scientific Verdict On Ingraffea Shale Emissions Study: Not Good,” *Energy In Depth* (blog), [http://energyindepth.org/wp-content/uploads/2013/01/EID\\_Howarth\\_fact\\_sheet5.pdf](http://energyindepth.org/wp-content/uploads/2013/01/EID_Howarth_fact_sheet5.pdf).

<sup>130</sup> Gearino.

<sup>131</sup> Jacob Chamberlain, “Study: Fracking Emissions Up To 1000x Higher Than EPA Estimates,” *Common Dreams*, April 15, 2014, <http://www.commondreams.org/news/2014/04/15/study-fracking-emissions-1000x-higher-epa-estimates/>.

<sup>132</sup> John Upton, “Fracers are flooding the atmosphere with climate-warming methane,” *Grist*, May 12, 2014, <http://grist.org/news/frackers-are-flooding-the-atmosphere-with-climate-warming-methane/>.



Steingraber at the August 2014 People's Climate March. In her speech, which drew heavily from Ingraffea and Howarth's claims, Steingraber argued "methane leakage from gas wells and fracking-related infrastructure is swinging a wrecking ball at the climate."<sup>133</sup>

HEFN and SMF's echo chamber does not just promote Ingraffea and Howarth; it also attacks other researchers who challenge their work. A recent example comes from InsideClimate News, the recipient of \$50,000 in grants from the Park Foundation. The April 2015 article<sup>134</sup> quotes "ban fracking" activists – including Steingraber – who have attacked the Environmental Defense Fund's research into methane emissions because of industry participation in the studies. Remarkably, the article does not mention Ingraffea and Howarth are funded by opponents of shale development, only that they have taken an "anti-fracking stance" based on their "bombshell" findings. The article also fails to mention that the news outlet accepts funding from the same foundations that fund Howarth and Ingraffea's research.

Ingraffea and Howarth's work has been invaluable to the campaign against shale development in New York, because it undermined some environmental support for natural gas as a "bridge fuel" that could support a transition to greater reliance on renewable energy. In fact, Ingraffea has become one of the stars of the "ban fracking" campaign, which as noted earlier, has received more than \$16 million from the HEFN and SMF echo chamber. For example, Ingraffea authored a *New York Times* op-ed calling shale gas "a gangplank to more warming and away from clean energy investments,"<sup>135</sup> and took part in the press conference launching Yoko Ono's Artists Against Fracking.

The press conference itself was another illustration of the HEFN and SMF echo chamber in action: Ingraffea – in his dual roles of researcher and campaigner – was enlisted to boost the credibility of celebrity "ban fracking" campaigners Yoko Ono and Mark Ruffalo, along with theater director Josh Fox, the maker of *Gasland*.<sup>136</sup>



From left to right: Mark Ruffalo, Anthony Ingraffea, Sean Lennon, Yoko Ono and Josh Fox at the August 2012 launch of Artists Against Fracking.<sup>136</sup>

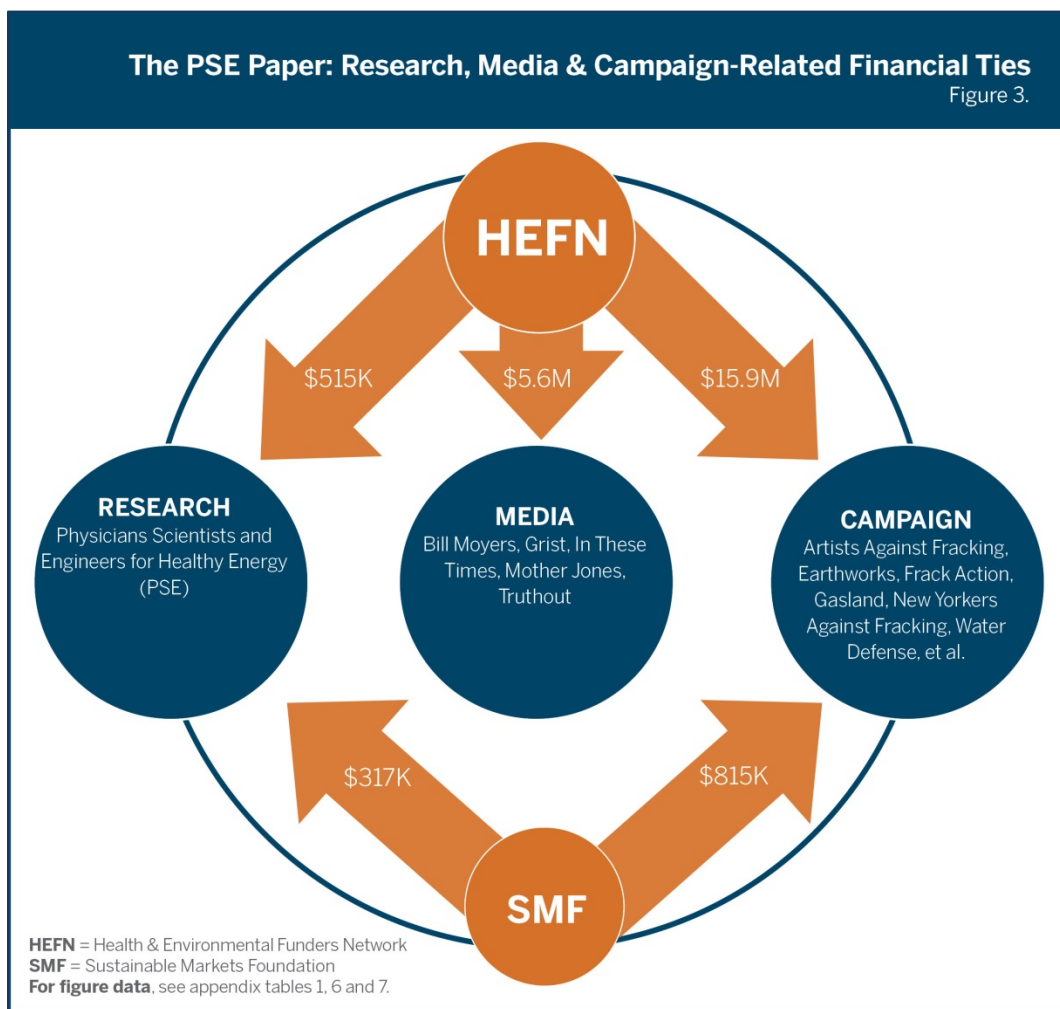
<sup>133</sup> Sandra Steingraber, "What the Anti-Fracking Movement Brings to the Climate Movement," *Moyers & Company*, August 26, 2014, <http://billmoyers.com/2014/08/26/what-the-anti-fracking-movement-brings-to-the-climate-movement/>.

<sup>134</sup> Lisa Song and Katherine Bagley, "EDF Sparks Mistrust, and Admiration, With Its Methane Research," *InsideClimate News*, April 8, 2015, <http://insideclimatenews.org/news/07042015/edf-sparks-mistrust-and-admiration-its-methane-leaks-research-natural-gas-fracking-climate-change>.

<sup>135</sup> Anthony R. Ingraffea, "Gangplank to a Warm Future," *New York Times*, July 28, 2013, [http://www.nytimes.com/2013/07/29/opinion/gangplank-to-a-warm-future.html?\\_r=0](http://www.nytimes.com/2013/07/29/opinion/gangplank-to-a-warm-future.html?_r=0).

<sup>136</sup> James Gerken, "Artists Against Fracking, Launched By Yoko Ono And Sean Lennon, Focuses On New York," *Huffington Post*, September 7, 2012, [http://www.huffingtonpost.com/2012/09/07/artists-against-fracking-yoko-ono-sean-lennon\\_n\\_1843469.html](http://www.huffingtonpost.com/2012/09/07/artists-against-fracking-yoko-ono-sean-lennon_n_1843469.html).

### 4.3 PHYSICIANS SCIENTISTS AND ENGINEERS FOR HEALTHY ENERGY PAPER



Physicians Scientists and Engineers for Healthy Energy (PSE) is a non-profit group that claims to provide scientific information “to help identify reasonable, healthy, and sustainable energy options.”<sup>139</sup> PSE’s founding president was none other than Anthony Ingraffea. The group published a literature review, “Environmental Public Health Dimensions of Shale and Tight Gas Development,” which concluded that shale development carried significant air pollution and water contamination risks.<sup>140</sup> But the PSE paper’s conclusions are contradicted by public health officials and environmental regulators across the country, and the group itself is heavily supported by foundations that oppose shale development in New York.

For example, Larry Wolk – a practicing physician and executive director of the Colorado Department of Public Health and Environment (CDPHE) – has responded to activist fear-mongering about emissions of volatile organic compounds from oil and gas wells in the following way:

They’re certainly lower than what you would see or measure in a normal indoor residential environment. So I’m going to say that being inside your home, as a rule, you’ll probably have a higher risk of VOC exposure, or VOC affecting your health, than being outdoors in an oil and gas-rich environment.<sup>141</sup>

<sup>139</sup> Physicians Scientists & Engineers for Healthy Energy, “Our Mission,” <http://psehealthyenergy.org/ABOUT/Mission>.

<sup>140</sup> Seth B.C. Shonkoff, Jake Hays, and Madelon L. Finkel, “Environmental Public Health Dimensions of Shale and Tight Gas Development,” *Environmental Health Perspectives* 122, no. 8, August 1, 2014, <http://ehp.niehs.nih.gov/1307866/#tab2>.

<sup>141</sup> Randy Hildreth, “Coloradans Against Fracking Launches with Usual Desperation Tactics,” *Energy In Depth* (blog), March 23, 2015, <http://energyindepth.org/mtn-states/coloradans-against-fracking-launches-with-usual-desperation-tactics/>.



The Pennsylvania Department of Environmental Protection (PA DEP) also concluded that Marcellus Shale drilling activities were not likely to trigger air-related health issues.<sup>142</sup> Similar findings were reached by the Texas Commission on Environmental Quality, which concluded:

After several months of operation, state-of-the-art, 24-hour air monitors in the Barnett Shale area are showing no levels of concern for any chemicals. This reinforces our conclusion that there are no immediate health concerns from air quality in the area, and that when they are properly managed and maintained, oil and gas operations do not cause harmful excess air emissions.<sup>143</sup>

In fact, senior environmental officials in the Obama administration have touted the air quality benefits made possible by increased shale production. For example, former EPA Administrator Lisa Jackson angered activists when in 2011 she said “as an environmentalist, I actually think natural gas is important to our country.”<sup>144</sup> More recently, Jackson’s successor at EPA, Gina McCarthy, has said: “[N]atural gas has been a game-changer with our ability to really move forward with pollution reductions that have been very hard to get our arms around for decades.”<sup>145</sup>

Similarly, the Obama administration has pushed back on alarmist claims that the development of oil and gas from shale poses a threat to groundwater quality. For example, Energy secretary Ernest Moniz has said: “To my knowledge, I still have not seen any evidence of fracking per se contaminating groundwater.”<sup>146</sup> Elsewhere, the Department of Energy has prepared a fact sheet on shale production for the general public which notes: “More than 3 million pounds of fully cemented steel casing strings are used [per well] to fully protect freshwater aquifers.”<sup>147</sup> As far as state regulators are concerned, New York’s state geologist, Taury Smith, had examined the science of hydraulic fracturing in shale for three years and found no case in which the process led to ground water contamination.<sup>148</sup> Moreover, California’s finding of “no evidence of harm from fracking”<sup>149</sup> is representative of what other state agencies have concluded across the country for decades.<sup>150</sup>

So why are the conclusions of the PSE paper such a break from these other findings? Most likely because PSE is part of the echo chamber financed by HEFN and SMF. Two of the paper’s authors, Seth Shonkoff<sup>151</sup> and Jake Hays,<sup>152</sup> hold key positions at PSE, which has been supported by grants totaling more than \$890,000 by HEFN and SMF, as shown in Figure 3.

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<sup>142</sup> Pennsylvania Department of Environmental Protection, “Southwestern Pennsylvania Marcellus Shale Short-Term Ambient Air Sampling Report,” November 1, 2010, [http://files.dep.state.pa.us/OilGas/BOGM/BOGMPortalFiles/Air/Marcellus\\_SW\\_11-01-10.pdf](http://files.dep.state.pa.us/OilGas/BOGM/BOGMPortalFiles/Air/Marcellus_SW_11-01-10.pdf), iii.

<sup>143</sup> Texas Commission on Environmental Quality, “Natural Outlook: Exploring environmental issues and challenges in Texas,” Fall 2010, [http://www.tceq.state.tx.us/assets/public/comm\\_exec/pubs/pd/020/10-04/Outlook-Fall-2010.pdf](http://www.tceq.state.tx.us/assets/public/comm_exec/pubs/pd/020/10-04/Outlook-Fall-2010.pdf), 14.

<sup>144</sup> Protecting Our Waters, “Remember the Susquehanna,” November 27, 2011, <https://protectingourwaters.wordpress.com/2011/11/27/remember-the-susquehanna/>.

<sup>145</sup> Amy Harder, “Why Obama Should Thank the Oil and Gas Industry,” *National Journal*, December 8, 2013, <http://www.nationaljournal.com/power-play/why-obama-should-thank-the-oil-and-gas-industry-20131208>.

<sup>146</sup> Ben Geman, “Energy secretary: Natural gas helps battle climate change – for now,” *The Hill*, August 1, 2013, <http://thehill.com/policy/energy-environment/315009-energy-secretary-natural-gas-helps-battle-climate-change-for-now>.

<sup>147</sup> U.S. Department of Energy, “Shale gas and hydraulic fracturing in depth,” [http://energy.gov/sites/prod/files/2013/04/f0/hydraulic\\_fracturing\\_poster.pdf](http://energy.gov/sites/prod/files/2013/04/f0/hydraulic_fracturing_poster.pdf).

<sup>148</sup> James M. Odat, “Scientist says the spin is on,” *Times Union*, March 14, 2011, <http://www.timesunion.com/local/article/Scientist-says-the-spin-is-on-1116437.php>.

<sup>149</sup> Paul Rogers, “California releases first-ever fracking regulations,” *San Jose Mercury News*, December 18, 2012, [http://www.mercurynews.com/ci\\_22219233/california-releases-first-ever-fracking-regulations](http://www.mercurynews.com/ci_22219233/california-releases-first-ever-fracking-regulations).

<sup>150</sup> Interstate Oil & Gas Compact Commission.

<sup>151</sup> Physicians Scientists & Engineers for Healthy Energy, “Staff,” <http://www.psehealthyenergy.org/site/view/108>.

<sup>152</sup> Physicians Scientists & Engineers for Healthy Energy, “Jake Hays,” <http://psehealthyenergy.org/site/view/100>.

Media outlets that share the same funders as PSE were on hand to promote the paper and its alarmist findings. A reporter with *The Climate Desk* authored an article promoting the PSE paper called, “Here's What Fracking Can Do to Your Health,” which ran in *Mother Jones*,<sup>153</sup> *Grist*,<sup>154</sup> and was posted on Bill Moyers’<sup>155</sup> website. Combined, these three outlets have received \$5.7 million from HEFN members between 2009 and 2014. Moreover, the article in question strikes an alarmist tone immediately, stating, “If you know one thing about fracking, it might be that the wells have been linked to explosive tap water. Of course, a tendency toward combustion isn't the biggest problem with gas-infused water; it's what could happen to you when you drink it.”<sup>156</sup>

The study's lead author, Seth Shonkoff, claimed in the story: “It's clear that the closer you are [to a well], the more elevated your risk,...We can conclude that this process has not been shown to be safe.”<sup>157</sup> Curiously, Shonkoff was quoted as a visiting public health scholar at the University of California-Berkeley, keeping hidden his ties to PSE and its opposition to shale development from readers.

The work of PSE has been critical to the campaign against hydraulic fracturing. It has given activist-researcher Anthony Ingraffea a platform outside of Cornell University to push the “ban fracking” agenda – a campaign that he has taken on the road, showing up everywhere from New Brunswick, Canada to Australia.<sup>158</sup> Also, just days before Gov. Cuomo announced the ban, Ingraffea's PSE teamed up with Concerned Health Professional of New York – co-founded by Sandra Steingraber – to publish a so-called “Compendium of Scientific, Medical, and Media Findings Demonstrating Risks and Harms of Fracking.”<sup>159</sup> There is considerable overlap between the research papers cited in the compendium and those included in New York acting health commissioner Howard Zucker's public health review.

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<sup>153</sup> Tim McDonnell, “Here's What Fracking Can Do to Your Health,” *Mother Jones*, April 16, 2014, <http://www.motherjones.com/environment/2014/04/heres-what-fracking-can-do-your-health/>.

<sup>154</sup> Tim McDonnell, “Here's what fracking can do to your health,” *Grist*, April 16, 2014, <http://grist.org/business-technology/heres-what-fracking-can-do-to-your-health/>;

<sup>155</sup> Tim McDonnell, “Here's What Fracking Can Do to Your Health,” *Moyers & Company*, April 22, 2014, <http://billmoyers.com/2014/04/22/heres-what-fracking-can-do-to-your-health/>.

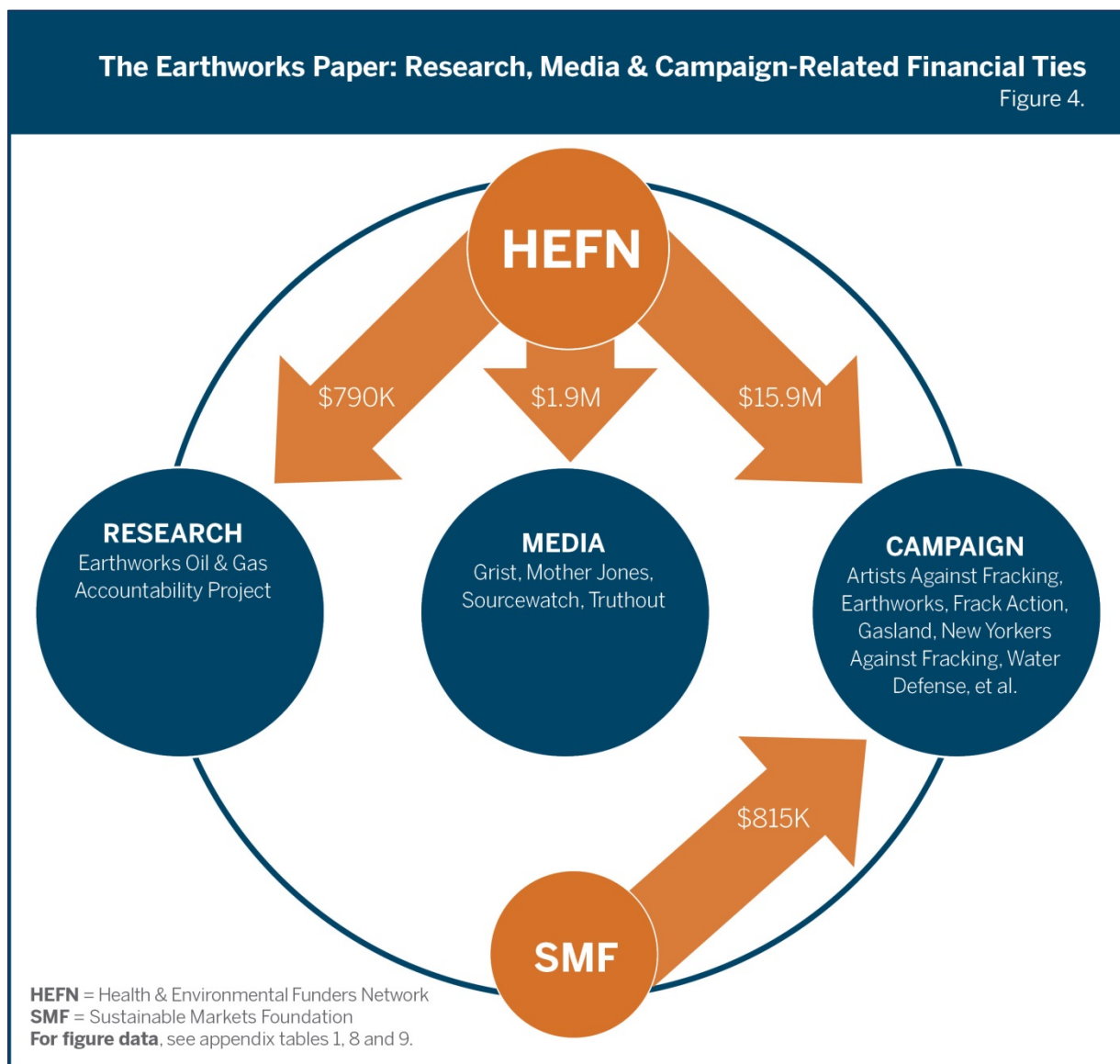
<sup>156</sup> *Ibid.*

<sup>157</sup> *Ibid.*

<sup>158</sup> Center of the American West, “The Return of FrackingSENSE with Dr. Anthony Ingraffea,” <http://centerwest.org/archives/15360>.

<sup>159</sup> Concerned Health Professionals of New York, “Compendium of Scientific, Medical, and Media Findings Demonstrating Risks and Harms of Fracking,” December 11, 2014, <http://concernedhealthny.org/wp-content/uploads/2014/07/CHPNY-Fracking-Compendium.pdf>.

#### 4.4 EARTHWORKS PAPER



The Earthworks paper – “Gas Patch Roulette: How Shale Gas Development Risks Public Health in Pennsylvania” – is perhaps one of the most remarkable citations of New York health commissioner Howard Zucker. This report, which did not go through anything close to a peer-review process, was produced by one of the nation’s biggest anti-shale activist groups.

As noted in Section 2.1, Earthworks is a national environmental group that leads a coalition of anti-industry groups known as “Stop the Frack Attack.”<sup>160</sup> The group has even stated: “Winning the war on oil will be easier if we win the war on fracking.”<sup>161</sup> As shown in Figure 5, the group has received \$790,000 from HEFN funders, namely the Park Foundation and Schmidt Foundation, from 2009 to 2014.

The report asserts “[w]here oil and gas development goes, health problems often follow,” and that “as the distance from facilities decreases, the percentage of respondents reporting the symptoms increased.”<sup>162</sup> But the methodology of the Earthworks paper is deeply flawed.

<sup>160</sup> Stop the Frack Attack, “Our Structure,” <http://www.stopthefrackattack.org/our-structure/>.

<sup>161</sup> Simon Lomax, “Earthworks Brings ‘War on Fracking’ to Colorado Oil & Gas Task Force,” *Energy In Depth* (blog), November 20, 2014, <http://energyindepth.org/mtn-states/earthworks-brings-war-on-fracking-to-colorado-oil-gas-task-force/>.

<sup>162</sup> *Ibid.*, 5, 13.

For example, the sampling method itself introduces many potential biases, as the self-report surveys were given to individuals who had expressed interest in working with the activist group, as well as the researchers' existing contacts, who then recommended other survey respondents.<sup>163</sup> Additionally, as the study itself recognized, "this project did not investigate additional factors that can influence health conditions or cause symptoms (e.g., through structured control groups in non-impacted areas and in-depth comparative health history research)." Only 108 individuals from 55 household participated in the survey.

In other words, the Earthworks paper is built on anecdotal evidence from a sample size of roughly 100 people who already knew of the activist group, or were recommended by those with ties to the activist group. Further, Earthworks admitted there was no effort to control for other health variables. Controlling for such variables is common scientific practice.

As for media outlets, *Grist* and *Mother Jones*, which have received at least \$1.7 million from HEFN funders, gave the Earthworks paper completely sympathetic coverage. They each cross-published an article, "Fracking ourselves to death in Pennsylvania," which described Earthworks as "independent environmental organization."<sup>164</sup>

To complete the echo chamber, campaign groups opposed to shale development in New York seized upon the findings of the Earthworks paper to alarm the public. For example, Catskill Mountainkeeper – like Earthworks, a major recipient of Park Foundation and Schmidt Family Foundation grants – profiled the group's work on its "health impact resources" webpage. Catskill Mountainkeeper summarized the Earthworks paper's conclusions in the following way:

Many residents have developed health symptoms that they did not have before—indicating the strong possibility that they are occurring because of gas development.<sup>165</sup>

The Cuomo administration knew about the major flaws in the Earthworks paper, because those flaws were briefly acknowledged in Zucker's health review.<sup>166</sup> The fact that Zucker choose to include this paper, instead of casting it aside, indicates just how desperately he and other Cuomo officials were grasping at straws to justify a ban on hydraulic fracturing.

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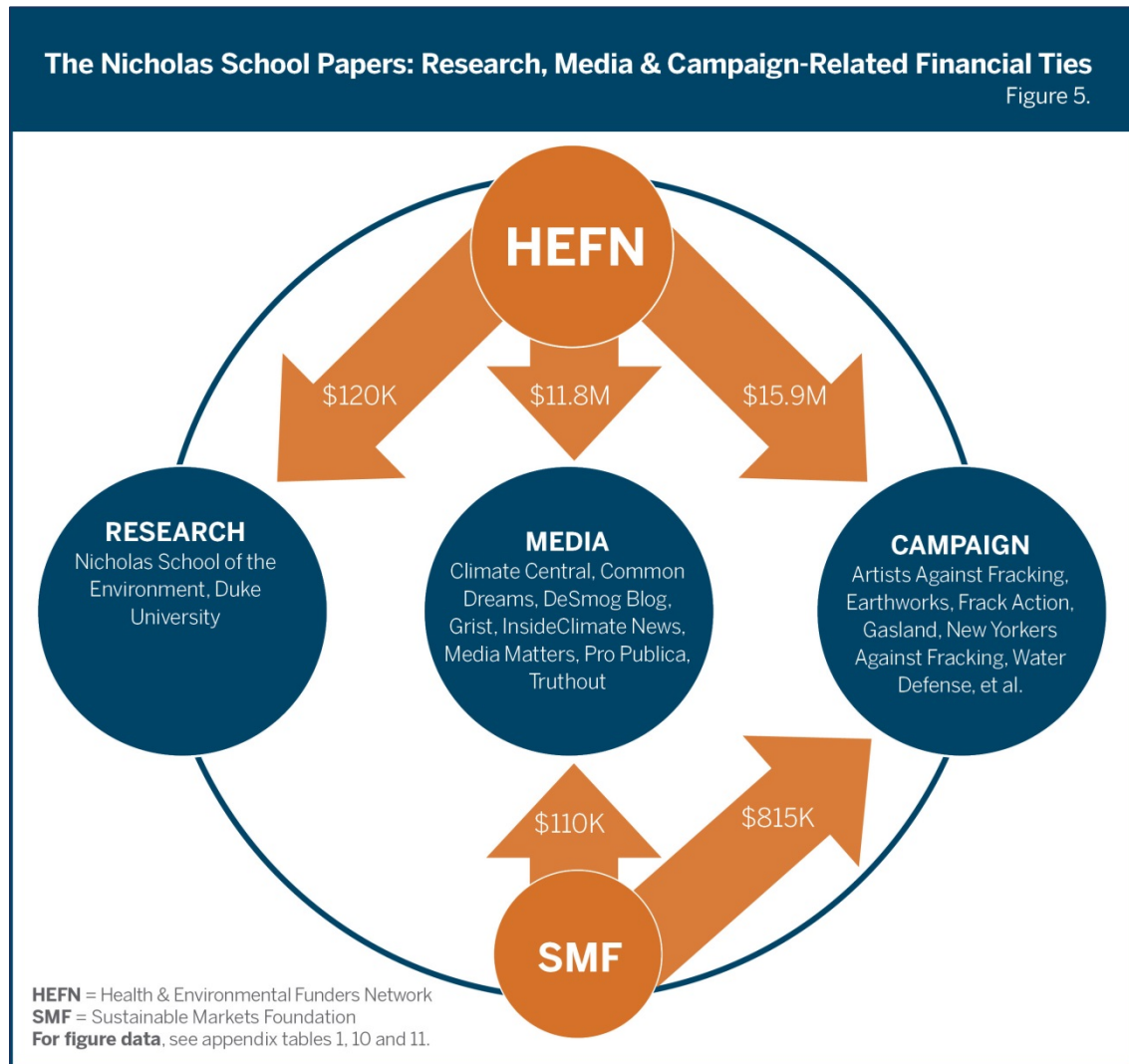
<sup>163</sup> Earthworks Oil & Gas Accountability Project, "Gas Patch Roulette: How Shale Gas Development Risks Public Health in Pennsylvania," October 2012, <http://www.earthworksaction.org/files/publications/Health-Report-Full-FINAL.pdf>, 9.

<sup>164</sup> Ellen Cantarow, "Fracking Pennsylvania to Death," *Mother Jones*, May 2, 2013, <http://www.motherjones.com/politics/2013/05/fracking-pennsylvania-sick-downwinders?page=2>; Ellen Cantarow, "Fracking ourselves to death in Pennsylvania," *Grist*, May 4, 2013, <http://grist.org/climate-energy/fracking-ourselves-to-death-in-pennsylvania/>.

<sup>165</sup> Catskill Mountainkeeper, "Health Impact Resources," [http://www.catskillmountainkeeper.org/health\\_impact\\_resources](http://www.catskillmountainkeeper.org/health_impact_resources).

<sup>166</sup> New York Department of Health, 22-3.

## 4.5 THE NICHOLAS SCHOOL PAPERS



Since 2011, the Nicholas School of the Environment at Duke University has been involved in a series of research papers on shale gas development. The New York Department of Health's report justifying the state's shale gas ban included references to these two papers:

- "Methane Contamination of Drinking Water Accompanying Gas-Well Drilling and Hydraulic Fracturing" (May 2011, i.e., The Nicholas School Paper I)<sup>167</sup>
- "Increased Stray Gas Abundance in a Subset of Drinking Water Wells Near Marcellus Shale Gas Extraction" (June 2013, i.e., The Nicholas School Paper II)<sup>168</sup>

<sup>167</sup> Stephen G. Osborn et al., "Methane contamination of drinking water accompanying gas-well drilling and hydraulic fracturing," *Proceedings of the National Academy of Sciences* 108, no. 20 (May 17, 2011), <http://www.pnas.org/content/108/20/8172.full.pdf>, 8173-4; Rob Jackson and Avner Vengosh, "Strong evidence that shale drilling is risky," *Philadelphia Inquirer*, May 10, 2011, [http://articles.philly.com/2011-05-10/news/29528421\\_1\\_water-wells-safe-drinking-natural-gas](http://articles.philly.com/2011-05-10/news/29528421_1_water-wells-safe-drinking-natural-gas).

<sup>168</sup> Robert B. Jackson et al., "Increased stray gas abundance in a subset of drinking water wells near Marcellus shale gas extraction," *Proceedings of the National Academy of Sciences* 110, no. 28, July 9, 2013, <http://www.pnas.org/content/110/28/11250.full.pdf>, 11250.



Taken together, these papers blamed natural gas development for the existence of methane in drinking water wells. After the release of the first study, two authors from the Nicholas School – Rob Jackson (now with Stanford) and Avner Vengosh – took the unusual step of publishing an op-ed in *The Philadelphia Inquirer* under the headline “Strong Evidence that Shale Drilling is Risky.”<sup>169</sup>

But the methane-related research was strongly criticized for relying on small sample sizes – 68 water wells for the 2011 paper and 141 water wells in 2013 – and lacking baseline data to show what background levels of methane existed prior to development of the Marcellus Shale. For example, an academic from Brown University’s Department of Geological Sciences wrote that the data “simply do not support the interpretation put forth that shale-gas development is leading to methane migration from the Marcellus into shallow groundwater” and “especially do not justify” the claims made by Jackson and Vengosh in the *Philadelphia Inquirer*.<sup>170</sup>

The PA DEP went further and called the research “biased” and “more of a media event than a scientific study.”<sup>171</sup> In 2012, a research project led by Pennsylvania State University found “no statistically significant increases in methane levels after drilling and no significant correlation to distance from drilling.”<sup>172</sup> The same report concluded dissolved methane was present in 20 percent of water wells before drilling, and the same pre-drilling tests found an even greater share – 40 percent – failed at least one federal safety standard without any connection to Marcellus Shale development.

As shown in Figure 6, the Nicholas School has received \$120,000 in research grants from the HEFN. Despite the questionable nature of the Nicholas School’s research on water wells, media outlets also receiving substantial funding from HEFN members were quick to cast natural gas development as the culprit for introducing methane into groundwater. A *ProPublica* article, which was cross-posted on *Truthout*, stated: “For the first time, a scientific study has linked natural gas drilling and hydraulic fracturing with a pattern of drinking water contamination so severe that some faucets can be lit on fire.”<sup>173</sup> *DeSmog Blog* wrote: “A new peer-reviewed study from Duke University shows that drinking water in areas within a half-mile of fracking wells can become contaminated with dangerous levels of methane - enough to catch on fire if lit.”<sup>174</sup>

Citing the Nicholas School’s 2013 paper, *Grist* reported that “levels of the gas were far higher in drinking water wells located close to fracking operations than in other areas.”<sup>175</sup> *InsideClimate News* reported: “Duke University researchers found in a June 2013 study that drinking-water wells in northeastern Pennsylvania within a kilometer of fracking had methane concentrations six times greater on average than wells farther away.”<sup>176</sup> *Common Dreams* reported, “The researchers...found methane in the drinking water of 82% of the houses sampled, and the methane concentrations in

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<sup>169</sup> Rob Jackson and Avner Vengosh.

<sup>170</sup> Samuel C. Schon, “Hydraulic fracturing not responsible for methane migration,” *Proceedings of the National Academy of Sciences* 108, no. 37 (September 13, 2011), <http://www.pnas.org/content/108/37/E664.full.pdf>.

<sup>171</sup> “Pennsylvania DEP Chiefs Blast Fracking Criticism,” *Natural Gas Intelligence*, June 13, 2011, <http://www.naturalgasintel.com/articles/22762-pennsylvania-dep-chiefs-blast-frack-criticism>

<sup>172</sup> Center for Rural Pennsylvania, “The Impact of Marcellus Gas Drilling on Rural Drinking Water Supplies,” March 2012, [http://www.rural.palegislature.us/documents/reports/Marcellus\\_and\\_drinking\\_water\\_2012.pdf](http://www.rural.palegislature.us/documents/reports/Marcellus_and_drinking_water_2012.pdf).

<sup>173</sup> Abrahm Lustgarten, “Scientific Study Links Flammable Drinking Water to Fracking,” *ProPublica*, May 9, 2011, <http://www.propublica.org/article/scientific-study-links-flammable-drinking-water-to-fracking>; Abrahm Lustgarten, “Scientific Study Links Flammable Drinking Water to Fracking,” *Truthout*, May 10, 2011, <http://www.truth-out.org/news/item/1016:scientific-study-links-flammable-drinking-water-to-fracking>.

<sup>174</sup> Farron Cousins, “Scientists Confirm Fracking Link To Flammable Drinking Water,” *DeSmog Blog*, May 10, 2011, <http://desmogblog.com/scientists-confirm-fracking-link-flammable-drinking-water>.

<sup>175</sup> John Upton, “Study links fracking to drinking water pollution,” *Grist*, June 25, 2013, <http://grist.org/news/study-links-fracking-to-drinking-water-pollution/>.

<sup>176</sup> Neela Banerjee, “Can Fracking Pollute Drinking Water? Don’t Ask the EPA,” *InsideClimate News*, March 2, 2015, <http://insideclimatenews.org/news/02032015/can-fracking-pollute-drinking-water-dont-ask-epa-hydraulic-fracturing-obama-chesapeake-energy>.

wells of homes less than one kilometer from a gas well were six times higher on average than those located farther away.”<sup>177</sup>

The Nicholas School papers also became fodder for activist groups campaigning to ban hydraulic fracturing in New York. For example, New Yorkers Against Fracking showcases the 2011 paper in the environmental studies section of its website. The group also cited the 2013 paper in a press release urging Gov. Cuomo to ban fracking in New York.<sup>178</sup> Meanwhile, *Gasland* director Josh Fox – whose signature flaming faucet scene was debunked by Colorado state regulators more than five years ago<sup>179</sup> – uses Nicholas School research to claim on a website that promotes his anti-industry activism: “Methane concentrations are 17x higher in drinking water wells near fracturing sites than in normal wells.”<sup>180</sup>

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<sup>177</sup> Andrea Germanos, “Study: Drinking Water Contamination Linked to Fracking, Horizontal Drilling,” *Common Dreams*, June 25, 2013, <http://www.commondreams.org/news/2013/06/25/study-drinking-water-contamination-linked-fracking-horizontal-drilling>.

<sup>178</sup> New Yorkers Against Fracking, “Osborn, Stephen G. et al. ‘Methane contamination of drinking water accompanying gas-well drilling and hydraulic fracturing.’ Proceedings of the National Academy of Sciences. April 14, 2011,” <http://nyagainstfracking.org/osborn-stephen-g-et-al-methane-contamination-of-drinking-water-accompanying-gas-well-drilling-and-hydraulic-fracturing-proceedings-of-the-national-academy-of-sciences-april-14/>; New Yorkers Against Fracking, “Statement from New Yorkers Against Fracking,” February 3, 2014, <http://nyagainstfracking.org/statement-from-new-yorkers-against-fracking/>.

<sup>179</sup> Vincent Carroll, “Carroll: ‘Gasland’ vs. Colorado,” *Denver Post*, January 30, 2011, [http://www.denverpost.com/ci\\_17222056](http://www.denverpost.com/ci_17222056).

<sup>180</sup> Dangers of Fracking, “Contamination,” <http://www.dangersoffracking.com/>.



## 5.0 AVENUES FOR FURTHER INQUIRY

This whitepaper is not intended to be the final word on the New York fracking ban, the sources cited by the Cuomo administration in defense of the ban, or the well-financed echo chamber that secured the ban with major investments in research, media and campaigning. Rather, the scope is limited and merely scratches the surface. It is our hope that the initial results presented here will spur more questions – and answers – about how the Cuomo administration actually arrived at its decision with respect to shale development in New York.

Other questions that merit further attention and inquiry:

- Why were research papers by Robert Oswald – one of the activist peer reviewers of the GCM paper – cited in the New York health review?<sup>181</sup> The three papers appeared in a journal called *New Solutions*, a “progressive” journal, whose contributors include “environmentalists in their many habitats” and “activists on the streets.”<sup>182</sup>
- Why was a graduate student’s unpublished “working paper”<sup>183</sup> on infant health, which has not been peer-reviewed, cited in the New York Health review on shale development?<sup>184</sup> *New York Times* environmental writer Andrew Revkin was critical of New Yorkers Against Fracking when it first tried to generate publicity for the paper prior to any kind of peer review, and yet it was apparently relied upon by the Cuomo administration as part of its review process.<sup>185</sup>
- Why was research from a team of researchers at the Colorado School of Public Health included<sup>186</sup> in the New York health review when Colorado public health officials have publicly and definitively disavowed the research team’s work?<sup>187</sup>
- Why was a paper from a University of Missouri researcher, whose methodology was found to be “not factually or scientifically valid” by Colorado health officials, included<sup>188</sup> in the New York health review? That decision is particularly interesting given the researchers actively solicited donations from “ban fracking” activists – including Josh Fox and Yoko Ono – after their grant application was rejected by the National Institutes of Health.<sup>189</sup>

In addition, there remain lingering questions about how many more activist foundations are pouring money into New York’s “ban fracking” echo chamber. For example, Sandra Steingraber has also mentioned<sup>190</sup> the Tides Foundation, a San Francisco-based group with assets exceeding \$150 million, as one of the “funders and supporters” of her book and film. However, because the full membership directory of HEFN is not publicly available, it is uncertain if Tides is a member, and so its grants to environmental activists in the New York campaign against shale were not included in this whitepaper’s analysis.

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<sup>181</sup> New York Department of Health, 92, 112.

<sup>182</sup> *New Solutions*, “New Solutions: A Journal of Environmental and Occupational Health Policy,” <http://www.newsolutionsjournal.com/index.php/newsolutionsjournal>.

<sup>183</sup> Elaine L. Hill, “Shale Gas Development and Infant Health: Evidence from Pennsylvania,” December 2013, <http://dyson.cornell.edu/research/researchpdf/wp/2012/Cornell-Dyson-wp1212.pdf>.

<sup>184</sup> New York Department of Health, 95.

<sup>185</sup> Andrew C. Revkin, “When Publicity Precedes Peer Review in the Fight Over Gas Impacts,” *New York Times*, July 25, 2012, [http://dotearth.blogs.nytimes.com/2012/07/25/when-publicity-precedes-peer-review-in-the-fight-over-fracking/?\\_r=0](http://dotearth.blogs.nytimes.com/2012/07/25/when-publicity-precedes-peer-review-in-the-fight-over-fracking/?_r=0).

<sup>186</sup> New York Department of Health, 98.

<sup>187</sup> Simon Lomax, “Colo. Health Department Disavows Activists’ Favorite Fracking Researchers,” *Energy In Depth* (blog), January 30, 2014, <http://energyindepth.org/mtn-states/colorado-health-department-disavows-activists-favorite-fracking-researchers/>.

<sup>188</sup> New York Department of Health, 96.

<sup>189</sup> Aileen Yeung, “Desperation Tactics: Activists Search for ‘Ban Fracking’ Evidence in China and Iran,” *Energy In Depth* (blog), December 5, 2014, <http://energyindepth.org/mtn-states/desperation-tactics-activists-ban-fracking-evidence-china-iran/>.

<sup>190</sup> Sandra Steingraber, *Living Downstream: An Ecologist’s Personal Investigation of Cancer and the Environment* (Da Capo Press: 2010), 382, <http://goo.gl/M1F2Po>.

Similarly, this whitepaper refrained from discussing the millions of dollars that donors to SMF have poured into publications such as *Grist* and *Mother Jones*, as well as other members of the echo chamber. However, as the chart below indicates, these “news outlets” are heavily subsidized by the same foundations that support SMF and are member of HEFN. Disclosure of such funding would aid the readers in understanding the agenda behind the content.

Funder	Amount	Recipient	Year(s)
<b>Advocacy Fund</b>			
Advocacy Fund	498,000	Media Matters Action Network	2010-2013
<b>David and Lucile Packard Foundation</b>			
David and Lucile Packard Foundation	500,000.00	Grist Magazine Inc.	2010-2012
David and Lucile Packard Foundation	135,000.00	High Country News	2010
<b>Gordon &amp; Betty Moore Foundation</b>			
Gordon & Betty Moore Foundation	94,200.00	Grist Magazine Inc.	2012
<b>Tides Foundation</b>			
Tides Foundation	30,000.00	Grist Magazine, Inc.	2011
Tides Foundation	3,500.00	High Country News	2012-2013
Tides Foundation	465,904.00	Media Matters for America	2011-2013
Tides Foundation	1,000.00	Pro Publica	2013
<b>Walton Family Foundation</b>			
Walton Family Foundation	80,000.00	High Country News	2010-2012
<b>William and Flora Hewlett Foundation</b>			
William and Flora Hewlett Foundation	443,100.00	High Country News	2010-2012
William and Flora Hewlett Foundation	300,000.00	Pro Publica Inc.	2010-2012
William and Flora Hewlett Foundation	150,000.00	Pro Publica Income Exchange	2011
<b>Total</b>	<b>2,700,704</b>		

## 6.0 CONCLUSION

The late Daniel Patrick Moynihan, a Democratic U.S. Senator from New York, is famously quoted as saying: “Everyone is entitled to his own opinion, but not his own facts.”<sup>191</sup>

But environmental activists in New York, and the foundations that fund them, found a way around Sen. Moynihan’s axiom. They built an echo chamber of research, media coverage and political campaigning that was used to drown out the facts and make it easier for Gov. Andrew Cuomo to overturn the findings of expert environmental regulators, who twice concluded that hydraulic fracturing for shale gas could safely proceed in New York.

But the rejection of the “ban fracking” agenda by state and federal regulators across the country shows the facts cannot be ignored forever, and now the Cuomo administration needs to explain why it relied on such politically charged and scientifically questionable research. Were Cuomo officials fooled by the echo chamber, or did they know exactly what was going on? Did they sanction an effort to subvert the peer-review process in order to produce a research paper that supported the ban? Now that the role of large environmental donors has been revealed in funding the research, media and campaign infrastructure that made the ban possible, will the Cuomo administration reconsider its decision to make the “ban fracking” agenda official state policy?

These are some of the questions Gov. Cuomo has been avoiding for months. They cannot be avoided forever.

<sup>191</sup> Daniel Patrick Moynihan, “An American Original,” *Vanity Fair*, October 2010, <http://www.vanityfair.com/news/2010/11/moynihan-letters-201011>.

## **7.0 APPENDIX**

# Table 1. Campaign-Related Financial Ties



Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>350.org</b>							
350.org		The Marisla Foundation	YES	2013	60,000	General support for climate change work	Form 990
350.org		The Marisla Foundation	YES	2013	75,000	(approved for future payment) General support for climate change work	Form 990
350.org		The Marisla Foundation	YES	2012	50,000	General support for climate change work	Form 990
350.org		The Marisla Foundation	YES	2012	60,000	(approved for future payment) Climate capacity building campaign	Form 990
350.org		The Marisla Foundation	YES	2011	50,000	(approved for future payment) Climate capacity building campaign	Form 990
350.org		Park Foundation	YES	2014	25,000	General operating support	Park Foundation website
350.org		Park Foundation	YES	2014	50,000	General operating support	Park Foundation website
350.org		Rockefeller Brothers Fund, Inc.	YES	2013	225,000	For general support	Form 990
350.org		Rockefeller Brothers Fund, Inc.	YES	2012	225,000	For general support	Form 990
350.org	Sustainable Markets Foundation	Rockefeller Brothers Fund, Inc.	YES	2010	100,000	For its 350.org project	Form 990
350.org		Wallace Global Fund II	YES	2012	80,000	Project support of climate campaign	Form 990
350.org		Wallace Global Fund II	YES	2011	25,000	Project support of climate campaign	Form 990
<b>American Sustainable Business Council</b>							
American Sustainable Business Council	Public Interest Projects, Inc.	Park Foundation	YES	2014	45,000	American Sustainable Business Council's organizing activities in New York around shale gas drilling concerns	Park Foundation website
American Sustainable Business Council	Commonwise Education, Inc.	Park Foundation	YES	2013	45,000	American Sustainable Business Council's organizing activities in New York around shale gas drilling concerns	Park Foundation website
<b>Artists Against Fracking</b>							
Artists Against Fracking		Sustainable Markets Foundation	NO	Undisclosed	Undisclosed	Undisclosed	"New York fracking foes: We'll become lobby if necessary," Associated Press, March 19, 2013.
<b>Catskill Mountainkeeper</b>							
Catskill Mountainkeeper		Park Foundation	YES	2014	50,000	General support for its on-going comprehensive campaign against fracking	Park Foundation website
Catskill Mountainkeeper		Park Foundation	YES	2013	40,000	General support for its on-going comprehensive campaign against fracking and the completion of a hydrogeological study	Park Foundation website
Catskill Mountainkeeper		Park Foundation	YES	2012	30,000	Complete and release a study on the health impacts of gas drilling and for general support for its work on gas drilling issues in New York State	Park Foundation website
Catskill Mountainkeeper		Park Foundation	YES	2011	25,000	Commission of a scientific study on the potential for out-of-formation fracturing to occur during gas drilling and also for general operating support	Park Foundation website
Catskill Mountainkeeper	Open Space Institute, Inc.	Park Foundation	YES	2010	25,000	Catskill Mountainkeeper's education and outreach program to stop unsafe gas drilling	Park Foundation website
Catskill Mountainkeeper		The Schmidt Family Foundation	YES	2013	75,000	To provide general operating support	Form 990
Catskill Mountainkeeper		The Schmidt Family Foundation	YES	2012	85,000	To support Catskill Mountainkeeper -- General Operating Support	Form 990
Catskill Mountainkeeper		The Schmidt Family Foundation	YES	2011	75,000	To provide general operating expenses	Form 990
<b>Cayuga Lake Watershed Network</b>							
Cayuga Lake Watershed Network		Park Foundation	YES	2014	35,000	General operating support	Park Foundation website
Cayuga Lake Watershed Network		Park Foundation	YES	2013	35,000	Hope Requires a Restful Mind: Coping with Climate Change and Fracking in the Cayuga Lake Watershed	Park Foundation website
Cayuga Lake Watershed Network		Park Foundation	YES	2010	60,000	General operating support	Park Foundation website
<b>Center for Biological Diversity</b>							
Center for Biological Diversity		Wallace Global Fund II	YES	2011	40,000	Project support for work on population and environment	Form 990
Center for Biological Diversity		Wallace Global Fund II	YES	2010	40,000	9/1/10-8/3/10 [sic]	Form 990
Center for Biological Diversity		Wallace Global Fund II	YES	2010	50,000	312010-2282011	Form 990
<b>Center for Health, Environment and Justice</b>							
Center for Health, Environment and Justice		The Heinz Endowments	YES	2014	20,000	to provide additional organizing and communications assistance to groups working on shale development	The Heinz Endowments website
Center for Health, Environment and Justice		The Kresge Foundation	YES	2010	200,000	The advocacy organization seeks to build healthy communities characterized by social justice, economic well-being and democratic governance. This two-year, \$400,000 grant advances efforts to establish federal, state and local guidelines and policies for schools aimed at ensuring healthy site selection, reducing nearby pollution and improving indoor air quality	Form 990

Center for Health, Environment and Justice		The Kresge Foundation	YES	2009	200,000	The advocacy organization seeks to build healthy communities characterized by social justice, economic well-being and democratic governance. This two-year, \$400,000 grant advances efforts to establish federal, state and local guidelines and policies for schools aimed at ensuring healthy site selection, reducing nearby pollution and improving indoor air quality	Form 990
Center for Health, Environment and Justice		Park Foundation	YES	2014	25,000	General operating support	Park Foundation website
Center for Health, Environment and Justice		Park Foundation	YES	2013	25,000	General operating support	Park Foundation website
Center for Health, Environment and Justice		Park Foundation	YES	2012	25,000	General operating support	Park Foundation website
Center for Health, Environment and Justice		Park Foundation	YES	2011	25,000	General operating support	Park Foundation website
Citizens Campaign Fund for the Environment							
Citizens Campaign Fund for the Environment		Park Foundation	YES	2014	20,000	Public education and outreach on gas drilling in New York State	Park Foundation website
Citizens Campaign Fund for the Environment		Park Foundation	YES	2013	20,000	Public education and outreach on gas drilling in New York State	Park Foundation website
Citizens Campaign Fund for the Environment		Park Foundation	YES	2012	20,000	Public education and outreach on gas drilling in New York State	Park Foundation website
Citizens Campaign Fund for the Environment		Park Foundation	YES	2011	20,000	Continued public education and outreach on the risks of hydraulic fracturing and gas drilling	Park Foundation website
Citizens Campaign Fund for the Environment		Park Foundation	YES	2010	20,000	Build upon and expand its current Marcellus Shale campaign to protect New York's water, land, air and people	Park Foundation website
Citizens Campaign Fund for the Environment		Park Foundation	YES	2010	3,000	Printing and distribution of hydrofracking report for NY policymakers, public and media	Park Foundation website
Croton Watershed Clean Water Coalition							
Croton Watershed Clean Water Coalition		The New York Community Trust	YES	2010	2,500	To support a grassroots education campaign on hydraulic fracture [sic] drilling	Form 990
Croton Watershed Clean Water Coalition		The New York Community Trust	YES	2010	4,500	To support an education toolkit about natural gas drilling in the New York Coty [sic] watersheds	Form 990
Damascus Citizens for Sustainability							
Damascus Citizens for Sustainability		The Heinz Endowments	YES	2014	175,000	to support air quality field science, education and outreach in shale impacted communities	The Heinz Endowments website
Damascus Citizens for Sustainability		The Heinz Endowments	YES	2013	25,000	for baseline methane measurements and methane measurements in response to natural gas exploration and production events	Form 990
Damascus Citizens for Sustainability		The Heinz Endowments	YES	2012	25,000	for baseline methane measurements and methane measurements in response to natural gas exploration and production events	Form 990
Delaware Riverkeeper Network							
Delaware Riverkeeper Network		Cedar Tree Foundation	YES	2013	100,000	project support for work against shale development	Form 990
Delaware Riverkeeper Network		Cedar Tree Foundation	YES	2011	85,000	Project support for work against fracking	Form 990
Delaware Riverkeeper Network		Claneil Foundation, Inc.	YES	2013	9,000	General operating	Form 990
Delaware Riverkeeper Network		Claneil Foundation, Inc.	YES	2013	9,000	(Approved for future payment) General operating	Form 990
Delaware Riverkeeper Network		The Heinz Endowments	YES	2014	45,000	to provide guidance to municipalities regarding land use planning, municipal zoning ordinances and local decision making, including for natural gas development and operations	The Heinz Endowments website
Earthjustice							
Earthjustice		Forsythia Foundation	YES	2013	40,000	Support for environmental program.	Form 990
Earthjustice		Forsythia Foundation	YES	2012	40,000	co-funding with Passport Foundation for the environmental health/toxics program	Form 990
Earthjustice		The Heinz Endowments	YES	2013	65,000	to aid Pennsylvania communities in addressing impacts of oil and gas development in the Marcellus Shale region	Form 990
Earthjustice		The Heinz Endowments	YES	2012	65,000	to aid Pennsylvania communities in addressing impacts of oil and gas development in the Marcellus Shale region	Form 990
Earthjustice		The Heinz Endowments	YES	2011	50,000	to ensure environmentally sustainable natural gas exploration and production in the Marcellus Shale	Form 990
Earthjustice		The New York Community Trust	YES	2013	15,083	for general support	Form 990
Earthjustice		The New York Community Trust	YES	2013	1,000	for the Annual Gift	Form 990
Earthjustice		The New York Community Trust	YES	2012	15,414	for general support	Form 990
Earthjustice		The New York Community Trust	YES	2011	10,900	for the Annual Gift	Form 990
Earthjustice		The New York Community Trust	YES	2011	16,100	for general support	Form 990
Earthjustice		The New York Community Trust	YES	2011	2,000	for the Annual Gift	Form 990
Earthjustice		The New York Community Trust	YES	2010	16,055	for general support	Form 990

Earthjustice		Park Foundation	YES	2014	75,000	Ongoing efforts to safeguard human health and the environment in the Northeast from dangers associated with fracking	Park Foundation website
Earthjustice		Park Foundation	YES	2013	75,000	Protection of freshwater and natural resources in the Northeast particularly as the region faces environmental health risks from expanded gas drilling	Park Foundation website
Earthjustice		Park Foundation	YES	2012	65,000	Protection of freshwater and natural resources in the Northeast	Park Foundation website
Earthjustice		Park Foundation	YES	2010	65,000	Expanded efforts to protect freshwater in the Northeast, particularly to improve and protect water quality, secure proper regulation and disposal of waste from gas exploration, and hold the gas industry accountable for the true costs of hydraulic fracturing	Park Foundation website
Earthjustice		Park Foundation	YES	2009	75,000	Advocacy and legal intervention work to protect New York and Pennsylvania communities and water resources from gas drilling pollution	Park Foundation website
Earthjustice		The Passport Foundation	YES	2013	65,000	Toxic chemicals and the public's right to know program	Form 990
Earthjustice		The Passport Foundation	YES	2012	50,000	Environmental Health/Toxics	Form 990
Earthjustice		The Passport Foundation	YES	2011	50,000	Chemicals Policy Reform Project Right to Know Program	Form 990
Earthworks							
Earthworks		The California Wellness Foundation	YES	2012	124,425	(Scheduled for 2013)	Form 990
Earthworks		The California Wellness Foundation	YES	2012	125,575	(Scheduled for 2014)	Form 990
Earthworks		The Heinz Endowments	YES	2013	90,000	to ensure effective regulatory enforcement of the shale gas industry in the Marcellus Region	Form 990
Earthworks		The Heinz Endowments	YES	2012	50,000	to generate public awareness of and build state coalitions to address the need for greater capacity of government to enforce natural gas regulations and ensure industrial compliance	Form 990
Earthworks		The Heinz Endowments	YES	2011	40,000	to develop a comprehensive online resource on energy extraction impacts, particularly for oil and gas	Form 990
Earthworks		The New York Community Trust	YES	2012	74,000	To prevent damage from natural gas drilling in the Marcellus Shale region	Form 990
Earthworks		The New York Community Trust	YES	2011	75,000	To minimize the effects of natural gas drilling in the Marcellus Shale region	Form 990
Earthworks		The New York Community Trust	YES	2010	75,000	To minimize the effects of natural gas drilling in the Marcellus Shale region	Form 990
Energy Action Coalition							
Energy Action Coalition	Earth Island Institute	The Marisla Foundation	YES	2013	100,000	(Approved) Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	The Marisla Foundation	YES	2012	100,000	Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	The Marisla Foundation	YES	2011	100,000	Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	The Marisla Foundation	YES	2010	100,000	Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	Rockefeller Brothers Fund, Inc.	YES	2013	200,000	For its project, Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	Rockefeller Brothers Fund, Inc.	YES	2012	200,000	For its project, Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	Rockefeller Brothers Fund, Inc.	YES	2011	200,000	For its project, Energy Action Coalition	Form 990
Energy Action Coalition	Earth Island Institute	Wallace Global Fund II	YES	2009	20,000	Earth Island-Energy Action Coalition - General support	Form 990
Environmental Advocates of New York, Inc.							
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2013	100,000	for the Endowment	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2013	35,000	for the annual fund	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2013	1,000	for general support	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2013	100,000	Endowment Fund	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2012	35,000	for the Annual fund	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2012	75,000	To educate policymakers and the public about the risks associated with hydraulic fracturing	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2012	500	for general support	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2012	250	for general support	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2011	16,500	for general support	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2011	1,000	for general support	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2011	25,000	for the Annual Fund	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2011	100,000	for the endowment of Environmental Advocates of New York	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2010	75,000	To educate policymakers and the public about the risks associated with hydraulic fracturing	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2010	50,000	for the endowment	Form 990
Environmental Advocates of New York, Inc.		The New York Community Trust	YES	2010	30,000	for general support	Form 990
Environmental Advocates of New York, Inc.		Park Foundation	YES	2014	80,000	Ongoing work to safeguard New York from gas drilling and emerging work to ensure the vision of a sustainable, cleaner and safer energy future for the state	Park Foundation website
Environmental Advocates of New York, Inc.		Park Foundation	YES	2013	75,000	Educate policymakers and the public about risks associated with fracking and high-volume horizontal gas drilling	Park Foundation website
Environmental Advocates of New York, Inc.		Park Foundation	YES	2012	75,000	Educate decision-makers and the public about risks associated with fracking and high-volume horizontal gas drilling	Park Foundation website



Environmental Advocates of New York, Inc.		Park Foundation	YES	2011	100,000	Educate policy-makers about the need for a stringent and rigorous program for regulating the natural gas industry before drilling is permitted	Park Foundation website
Environmental Advocates of New York, Inc.		Park Foundation	YES	2010	100,000	Educate decision-makers and the public about the risks associated with hydraulic fracturing and to advance a stringent and rigorous program for regulating this industry	Park Foundation website
Environmental Advocates of New York, Inc.		Park Foundation	YES	2009	5,000	Coordination of low level flights for media and decision-makers of areas already disrupted by gas exploration and drilling	Park Foundation website
Environmental Advocates of New York, Inc.		Park Foundation	YES	2009	50,000	Education, outreach and coordination of efforts during the Marcellus Shale public comment period	Park Foundation website
Environmental Advocates of New York, Inc.		Park Foundation	YES	2009	40,000	Strengthening the state's oversight of gas exploration in New York, documenting problems with the state's water pollution permitting program and advocating for full compliance with the federal Clean Water Act	Park Foundation website
<b>Fleased</b>							
Fleased	Sustainable Markets Foundation	Park Foundation	YES	2013	30,000	General operating support for Fleased, a group representing and educating landowners who hold gas leases	Park Foundation website
Fleased	Community Environmental Defense Council, Inc.	Park Foundation	YES	2011	20,000	Fleased, an organization advocating for landholder rights in the realm of gas leasing	Park Foundation website
<b>Food &amp; Water Watch</b>							
Food & Water Watch		Park Foundation	YES	2014	110,000	National water campaign to prevent the private control of water and protect and conserve the nation's water resources	Park Foundation website
Food & Water Watch		Park Foundation	YES	2014	22,500	Expand the statewide movement against oil fracking and other oil extraction techniques in California	Park Foundation website
Food & Water Watch		Park Foundation	YES	2013	125,000	National water campaign to prevent the private control of water and protect and conserve the nation's water resources	Park Foundation website
Food & Water Watch		Park Foundation	YES	2012	125,000	National water campaign to prevent the private control of water and protect and conserve the nation's water resources	Park Foundation website
Food & Water Watch		The Schmidt Family Foundation	YES	2013	75,000	To support the work on fracking ban	Form 990
Food & Water Watch		The Schmidt Family Foundation	YES	2012	65,000	To support education and outreach on fracking in New York	Form 990
Food & Water Watch		Sustainable Markets Foundation	NO	2012	10,000	Environmental Preservation	Form 990
Food & Water Watch		Sustainable Markets Foundation	NO	2011	14,250	General Fund	Form 990
<b>Frack Action</b>							
Frack Action		Park Foundation	YES	2014	70,000	General operating support	Park Foundation website
Frack Action	Sustainable Markets Foundation	Park Foundation	YES	2013	60,000*	General operating support for Frack Action	Park Foundation website
Frack Action	Sustainable Markets Foundation	Park Foundation	YES	2012	60,000*	General operating support for Frack Action	Park Foundation website
Frack Action	Sustainable Markets Foundation	Park Foundation	YES	2011	50,000*	Frack Action, as it develops a more coordinated coalition of grassroots organizations and helps mobilize college students through involvement in Power Shift New York	Park Foundation website
Frack Action	Sustainable Markets Foundation	Park Foundation	YES	2011	15,000*	Frack Action, as it creates and implements a broad educational campaign to inform the public about the dangers of hydraulic fracturing and builds a new network of activists	Park Foundation website
Frack Action	Sustainable Markets Foundation	The Schmidt Family Foundation	YES	2013	225,000*	To support Frack Action	Form 990
Frack Action	Sustainable Markets Foundation	The Schmidt Family Foundation	YES	2012	125,000*	To provide general operating support for Frack Action	Form 990
Frack Action	Sustainable Markets Foundation	The Schmidt Family Foundation	YES	2011	100,000*	To support Frack Action's grassroots campaign fighting for a ban on horizontal hydraulic fracturing in New York	Form 990
Frack Action		The Schmidt Family Foundation	YES	2011	50,000	In support of Frack Action	Form 990
Frack Action		Sustainable Markets Foundation	NO	2012	240,880	Environmental Preservation	Form 990
Frack Action		Sustainable Markets Foundation	NO	2011	324,198	Fracking	Form 990
<b>Fractracker Alliance</b>							
Fractracker Alliance		Park Foundation	YES	2014	43,000	Continued role as a resource for understanding the impacts of unconventional oil and gas development in New York	Park Foundation website
Fractracker Alliance		Park Foundation	YES	2013	40,000	Empowering New Yorkers with shale gas data, information and insights	Park Foundation website
Fractracker Alliance	Community Foundation for the Alleghenies	Park Foundation	YES	2012	40,000	FracTracker.org's coverage of New York shale gas issues	Park Foundation website
Fractracker Alliance		The Heinz Endowments	YES	2014	80,000	to expand community, environmental and experiential data in shale fields	The Heinz Endowments website
Fractracker Alliance		The Heinz Endowments	YES	2013	766,400	to support expanded mapping and analytical activities to inform and educate constituencies about impacts of hydrofracturing	Form 990
Fractracker Alliance		The Schmidt Family Foundation	YES	2013	100,000	To provide general operating support	Form 990
Fractracker Alliance		The Schmidt Family Foundation	YES	2013	100,000	(approved for future payment) To support Fractracker Alliance	Form 990
<b>Gas Free Seneca</b>							
Gas Free Seneca		Sustainable Markets Foundation	NO	2012	21,915	Environmental Preservation	Form 990
Gas Free Seneca		Sustainable Markets Foundation	NO	2011	42,580	Seneca	Form 990
<b>Gasland/International WOW Company</b>							
Gasland/International WOW Company	International WOW Company	Park Foundation	YES	2013	100,000	GASLAND, Part 3	Park Foundation website
Gasland/International WOW Company	International WOW Company	Park Foundation	YES	2011	100,000	The production and dissemination of film work and media projects that frame gas drilling issues and report on the crisis	Park Foundation website

Gasland/International WOW Company	International WOW Company	Park Foundation	YES	2010	75,000	A grassroots social engagement campaign around Gasland, the award-winning documentary film about gas drilling in the United States	Park Foundation website
Gasland/International WOW Company	Sustainable Markets Foundation	The Schmidt Family Foundation	YES	2010	50,000	Fiscal sponsor for Gasland to support the distribution of film "Gasland"	Form 990
Grassroots Environmental Education, Inc.							
Grassroots Environmental Education, Inc.		Park Foundation	YES	2014	35,000	Public awareness initiatives related to shale gas development in New York State	Park Foundation website
Grassroots Environmental Education, Inc.		Park Foundation	YES	2013	25,000	Its public education and outreach activities on fracking to the public, religious leaders and policy-makers in New York	Park Foundation website
Grassroots Environmental Education, Inc.		Park Foundation	YES	2012	15,000	Education and outreach activities in New York on public health concerns related to fracking	Park Foundation website
Natural Resources Defense Council							
Natural Resources Defense Council		The California Wellness Foundation	YES	2013	75,000	(Scheduled for 2014)	Form 990
Natural Resources Defense Council		The Heinz Endowments	YES	2013	60,000	for empowering communities to safeguard against the risks of hydraulic fracturing	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2013	54,470	for general support	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2013	150,000	To protect New York from the damage caused by natural gas drilling	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2012	150,000	To protect New York from the damage caused by natural gas drilling	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2012	80,668	for general support	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2012	500	for general support	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2011	97,290	For general support	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2011	15,000	for general support for 2012	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2011	150,000	To protect New York from damage caused by natural gas drilling	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2010	150,000	To address the public health and environmental effects of natural gas drilling in the New York City drinking watersheds	Form 990
Natural Resources Defense Council		The New York Community Trust	YES	2010	85,590	For general support	Form 990
Natural Resources Defense Council		Park Foundation	YES	2014	80,000	Protecting drinking water from poorly regulated oil and gas drilling and other threats	Park Foundation website
Natural Resources Defense Council		Park Foundation	YES	2013	80,000	Protecting drinking water from poorly regulated oil and gas drilling and other threats	Park Foundation website
Natural Resources Defense Council		Park Foundation	YES	2012	85,000	Protecting drinking water from poorly regulated oil and gas drilling and other threats	Park Foundation website
Natural Resources Defense Council		Park Foundation	YES	2011	50,000	Continue its efforts to ensure that drinking water is safe and affordable for all Americans	Park Foundation website
Natural Resources Defense Council		Park Foundation	YES	2010	50,000	Continue its efforts to protect New York's Marcellus Shale region from the dangers of gas drilling and to strengthen federal regulations for oil and gas drilling	Park Foundation website
Natural Resources Defense Council		Park Foundation	YES	2009	100,000	Efforts to protect environmental and human health from gas drilling impacts in New York, advocacy for closing oil and gas exemptions in federal statutes, and ongoing work on national drinking water concerns	Park Foundation website
Natural Resources Defense Council		The Schmidt Family Foundation	YES	2013	400,000	To support clean energy & fuels initiative	Form 990
Natural Resources Defense Council		The Schmidt Family Foundation	YES	2013	100,000	To support operations	Form 990
Natural Resources Defense Council		The Schmidt Family Foundation	YES	2011	1,000,000	For supporting communications about international and domestic environmental priorities	Form 990
Natural Resources Defense Council		The Schmidt Family Foundation	YES	2010	1,000,000	For supporting communications about international and domestic environmental priorities	Form 990
New Yorkers Against Fracking							
New Yorkers Against Fracking	Food & Water Watch	Park Foundation	YES	2014	100,000	New Yorkers Against Fracking coalition	Park Foundation website
New Yorkers Against Fracking	Food & Water Watch	Park Foundation	YES	2014	40,000	New Yorkers Against Fracking campaign	Park Foundation website
New Yorkers Against Fracking	Food & Water Watch	Park Foundation	YES	2013	125,000	New Yorkers Against Fracking coalition	Park Foundation website
New Yorkers Against Fracking	Food & Water Watch	Park Foundation	YES	2013	125,000	New Yorkers Against Fracking	Park Foundation website
New Yorkers Against Fracking	Food & Water Watch	Park Foundation	YES	2012	125,000	Expand New Yorkers Against Fracking's organizing capacity	Park Foundation website
New Yorkers Against Fracking	Food & Water Watch	Park Foundation	YES	2012	40,000	New Yorkers Against Fracking coordination and outreach activities	Park Foundation website
New York Public Interest Research Group Fund							
New York Public Interest Research Group Fund		Park Foundation	YES	2014	50,000	Continue its public education and outreach campaign on the issue of gas drilling in New York	Park Foundation website
New York Public Interest Research Group Fund		Park Foundation	YES	2013	50,000	Continuation of its widespread public education campaign on the issue of gas drilling in New York	Park Foundation website
New York Public Interest Research Group Fund		Park Foundation	YES	2013	5,000	Engage, educate and activate New York City college-age students in NYPIRG's anti-fracking campaign	Park Foundation website
New York Public Interest Research Group Fund		Park Foundation	YES	2012	50,000	Public education campaign on the issue of gas drilling in New York	Park Foundation website
New York Public Interest Research Group Fund		Park Foundation	YES	2011	50,000	Public education campaign on the issue of gas drilling in New York	Park Foundation website
New York Public Interest Research Group Fund		Park Foundation	YES	2010	50,000	Public education campaign on the issue of natural gas drilling in New York's Marcellus Shale region	Park Foundation website
Sierra Club							
Sierra Club		The New York Community Trust	YES	2013	7,250	for general support	Form 990
Sierra Club		The New York Community Trust	YES	2013	100,000	To reduce oil use by major U.S. companies	Form 990
Sierra Club		The New York Community Trust	YES	2012	8,250	for general support	Form 990

Sierra Club		The New York Community Trust	YES	2010	5,250	for general support	Form 990
Sierra Club		The Schmidt Family Foundation	YES	2013	500,000	To support Beyond Natural Gas Campaign	Form 990
Sierra Club		The Schmidt Family Foundation	YES	2012	250,000	To support Beyond Natural Gas Campaign	Form 990
Sierra Club		The Schmidt Family Foundation	YES	2012	500,000	(Approved for future payment) To support Moving Beyond Natural Gas Project	Form 990
Sierra Club		The Schmidt Family Foundation	YES	2011	250,000	To support Sierra Club's Getting It Right on Natural Gas campaign	Form 990
Sustainable Tompkins							
Sustainable Tompkins	Social Ventures, Inc.	Park Foundation	YES	2012	90,000	For ongoing support of Sustainable Tompkins Neighborhood Minigrant Program, Finger Lakes Energy Challenge, Finger Lakes Climate Fund, and general support	Park Foundation website
Sustainable Tompkins	Social Ventures, Inc.	Park Foundation	YES	2011	115,000	General operating support for Sustainable Tompkins	Park Foundation website
Sustainable Tompkins	Social Ventures, Inc.	Park Foundation	YES	2009	260,000	General operating support for Sustainable Tompkins, promoting sustainability in Tompkins County (over two years)	Park Foundation website
Riverkeeper							
Riverkeeper		Claneil Foundation, Inc.	YES	2013	12,500	Communications & advocacy to advance protections from the threat of fracking in NY	Form 990
Riverkeeper		Claneil Foundation, Inc.	YES	2012	11,000	Potential impact of fracking in NY	Form 990
Riverkeeper		The New York Community Trust	YES	2013	39,500	For general support	Form 990
Riverkeeper		The New York Community Trust	YES	2012	41,050	For general support	Form 990
Riverkeeper		The New York Community Trust	YES	2011	5,300	For general support	Form 990
Riverkeeper		The New York Community Trust	YES	2010	4,250	for general support	Form 990
Water Defense							
Water Defense	Sustainable Markets Foundation	The Schmidt Family Foundation	YES	2012	150,000*	To support Water Defense	Form 990
Water Defense		Sustainable Markets Foundation	NO	2012	13,500	Environmental Preservation	Form 990
Water Defense		Sustainable Markets Foundation	NO	2011	147,750	Water Def	Form 990
					SMF TOTAL	815,073	*HEFN pass-through grants to SMF are listed for reference. However, they are not included in HEFN total.
					HEFN TOTAL	15,867,570	

Table 2. The GCM Paper: Research Financial Ties

Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Coming Clean</b>							
Coming Clean		Cedar Tree Foundation	YES	2013	125,000	General Support for Coming Clean	Form 990
Coming Clean		Cedar Tree Foundation	YES	2012	125,000	general support	Form 990
Coming Clean	Kentucky Environmental Foundation	Cedar Tree Foundation	YES	2011	100,000	General support for Coming Clean	Form 990
Coming Clean	Kentucky Environmental Foundation	Cedar Tree Foundation	YES	2010	100,000	General support for Coming Clean Collaborative	Form 990
Coming Clean		The Fine Fund	YES	2013	20,000	General operating support	Form 990
Coming Clean		The Fine Fund	YES	2012	25,000	General operating support	Form 990
Coming Clean		The Marisla Foundation	YES	2013	260,000	General support for environmental health and justice	Form 990
Coming Clean		The Marisla Foundation	YES	2012	100,000	General support for environmental health and justice	Form 990
Coming Clean	Kentucky Environmental Foundation	The Marisla Foundation	YES	2012	160,000	Coming Clean Collaborative	Form 990
Coming Clean	Kentucky Environmental Foundation	The Marisla Foundation	YES	2011	160,000	Coming Clean Collaborative	Form 990
Coming Clean	Kentucky Environmental Foundation	The Marisla Foundation	YES	2010	160,000	Coming Clean Collaborative	Form 990
Coming Clean		The John Merck Fund	YES	2012	150,000	To help define the vision, focus, strategies, and tactics of the environmental health and justice movement and to undertake a specific project that builds relationships between activists on chemicals and energy issues.	Form 990
Coming Clean	Kentucky Environmental Foundation	The John Merck Fund	YES	2011	100,000	To enable Coming Clean to force chemical industry reforms by: publicizing compelling biomonitoring data; promoting safe substitutions for toxic chemicals through alternative assessments; linking market campaigns to policy objectives; offering strong messages for toxic-free solutions, and providing a communications structure that incorporates local, state, federal and international policy reform initiatives	Form 990
Coming Clean	Kentucky Environmental Foundation	The John Merck Fund	YES	2011	100,000	To enable Coming Clean to force chemical industry reforms by: publicizing compelling biomonitoring data; promoting safe substitutions for toxic chemicals through alternative assessments; linking market campaigns to policy objectives; offering strong messages for toxic-free solutions, and providing a communications structure that incorporates local, state, federal and international policy reform initiatives	Form 990
Coming Clean		Park Foundation	YES	2014	41,000	General operating support	Park Foundation website
Coming Clean		Park Foundation	YES	2013	40,000	General operating support	Park Foundation website
Coming Clean	Kentucky Environmental Foundation	Park Foundation	YES	2012	30,000	Coming Clean Collaborative, a network of diverse organizations that advocates for comprehensive chemical and energy industry reform	Park Foundation website
Coming Clean	Kentucky Environmental Foundation	Park Foundation	YES	2011	30,000	The activities of Coming Clean, a collaborative of organizations, networks and alliances working together to reform the chemical industry so that it is no longer a source of harm	Park Foundation website
Coming Clean	Kentucky Environmental Foundation	Park Foundation	YES	2010	30,000	Coming Clean, a collaborative organizing and advocating for reform of the chemical industry	Park Foundation website
Coming Clean	Kentucky Environmental Foundation	Park Foundation	YES	2009	30,000	Coming Clean, a collaborative working for chemical industry reform	Park Foundation website
<b>Center for Environmental Health</b>							
Center for Environmental Health		Cedar Tree Foundation	YES	2013	150,000	general support	Form 990
Center for Environmental Health		Cedar Tree Foundation	YES	2013	150,000	committed to be paid in 2014	Form 990
Center for Environmental Health		Cedar Tree Foundation	YES	2013	150,000	committed to be paid in 2015	Form 990
Center for Environmental Health		The Passport Foundation	YES	2013	40,000	General & unrestricted	Form 990
<b>Earthworks</b>							
Earthworks		Park Foundation	YES	2014	70,000	Oil & Gas Accountability Project work in the Marcellus and Utica Shale regions	Park Foundation website
Earthworks		Park Foundation	YES	2013	70,000	Oil & Gas Accountability Project work in the Marcellus Shale region	Park Foundation website
Earthworks		Park Foundation	YES	2013	10,000	General operating support	Park Foundation website
Earthworks		Park Foundation	YES	2012	65,000	Oil and Gas Accountability Project's Marcellus region work and its Stop the Frack Attack national collaboration activities	Park Foundation website
Earthworks		Park Foundation	YES	2011	60,000	Work with local communities in the Marcellus Shale region to defend their rights and hold energy companies accountable and to advance policy solutions in New York that will make it a national model for protecting its citizens and the environment	Park Foundation website
Earthworks		Park Foundation	YES	2010	70,000	Work to protect communities and the environment from the destructive impacts of gas development in the Marcellus Shale region	Park Foundation website
Earthworks		Park Foundation	YES	2009	70,000	Oil & Gas Accountability Project expansion to the Marcellus Shale region	Park Foundation website
Earthworks		The Schmidt Family Foundation	YES	2013	150,000	To support Oil and Gas Accountability Project	Form 990
Earthworks		The Schmidt Family Foundation	YES	2012	150,000	To support Earthwork's [sic] Oil & Gas Accountability	Form 990
Earthworks		The Schmidt Family Foundation	YES	2011	75,000	To support Earthworks' Oil and Gas Accountability Project	Form 990
<b>Environmental Law Alliance</b>							
Environmental Law Alliance		The Marisla Foundation	YES	2013	60,000	Protecting Communities from Toxic Chemicals	Form 990
Environmental Law Alliance		The Marisla Foundation	YES	2012	60,000	Protecting communities from toxic chemicals	Form 990
Environmental Law Alliance		The Marisla Foundation	YES	2011	45,000	Protecting Communities from Toxic Chemicals	Form 990
Environmental Law Alliance		The Marisla Foundation	YES	2010	45,000	(Approved for future payment) Protecting communities from toxic chemicals	Form 990
<b>Global Community Monitor</b>							
Global Community Monitor		The California Wellness Foundation	YES	2013	75,000	(To Denny Larson) For core operating support to sustain the provision of technical assistance and training on environmental health to community-based, nonprofit organizations in California	Form 990
Global Community Monitor		The Kresge Foundation	YES	2013	100,000	Provide technical assistance on environmental monitoring to port communities addressing health effects of air pollution	Form 990

Global Community Monitor		<b>The Kresge Foundation</b>	YES	2012	100,000	Provide technical assistance on environmental monitoring to port communities addressing health effects of air pollution	Form 990
Sandra Steingraber (peer-reviewer)							
Sandra Steingraber (peer-reviewer)		<b>The Jenifer Altman Foundation</b>		Undisclosed	Undisclosed	Undisclosed	"For enabling my work in direct and indirect ways, I thank Adelaide Park Gomer of the Park Foundation and Marni Rosen of the Jenifer Altman Foundation. I also thank Janet Wallace of the Wallace Global Fund..." (Sandra Steingraber, An Ecologist's Personal Investigation of Cancer and the Environment, Da Capo Press: 2010, 384-5.)
Sandra Steingraber (peer-reviewer)		<b>Park Foundation</b>		Undisclosed	Undisclosed	Undisclosed	"For enabling my work in direct and indirect ways, I thank Adelaide Park Gomer of the Park Foundation and Marni Rosen of the Jenifer Altman Foundation. I also thank Janet Wallace of the Wallace Global Fund..." (Sandra Steingraber, An Ecologist's Personal Investigation of Cancer and the Environment, Da Capo Press: 2010, 384-5.)
Sandra Steingraber (peer-reviewer)		<b>Wallace Global Fund</b>		Undisclosed	Undisclosed	Undisclosed	"For enabling my work in direct and indirect ways, I thank Adelaide Park Gomer of the Park Foundation and Marni Rosen of the Jenifer Altman Foundation. I also thank Janet Wallace of the Wallace Global Fund..." (Sandra Steingraber, An Ecologist's Personal Investigation of Cancer and the Environment, Da Capo Press: 2010, 384-5.)
				<b>HEFN TOTAL</b>	<b>3,651,000</b>		

For campaign-related funding, see Table 1.

Table 3. The GCM Paper: Media Financial Ties

Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>AlterNet</b>							
<a href="#">Example of coverage: "Are Fracking Workers Being Poisoned on the Job?"</a>	Independent Media Institute	Park Foundation	YES	2014	25,000	AlterNet's coverage of freshwater issues, with a special focus on fracking and the intersections of water and energy	Park Foundation website
AlterNet	Independent Media Institute	Park Foundation	YES	2012	30,000	AlterNet's coverage of freshwater issues, particularly on threats from the gas industry	Park Foundation website
AlterNet	Independent Media Institute	Park Foundation	YES	2011	30,000	AlterNet's coverage of freshwater issues, particularly on threats from the gas industry	Park Foundation website
AlterNet	Independent Media Institute	Park Foundation	YES	2010	30,000	Expansion of AlterNet's coverage of freshwater issues	Park Foundation website
AlterNet	Independent Media Institute	Park Foundation	YES	2009	10,000	AlterNet, a news magazine and online commentary	Park Foundation website
<b>Common Dreams</b>							
<a href="#">Example of coverage: "Neighbors Don't Let Neighbors Frack"</a>		Park Foundation	YES	2014	45,000	General operating support (over three years)	Park Foundation website
Common Dreams		Park Foundation	YES	2013	15,000	General operating support	Park Foundation website
Common Dreams		Park Foundation	YES	2012	15,000	General operating support	Park Foundation website
Common Dreams		Park Foundation	YES	2011	15,000	General operating support	Park Foundation website
Common Dreams		Park Foundation	YES	2010	10,000	General operating support	Park Foundation website
<b>DeSmog Blog</b>							
<a href="#">Example of coverage: "Unsafe Levels of Formaldehyde in Air Around Arkansas' Fayetteville Shale"</a>		Sustainable Markets Foundation	NO	2011	110,000	Media & Advocacy	Form 990
<b>Grist</b>							
<a href="#">Example of coverage: "Fracking pollution just went airborne"</a>		Park Foundation	YES	2014	15,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2013	35,000	Expanding coverage of climate change	Park Foundation website
Grist		Park Foundation	YES	2011	30,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2010	30,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2009	43,000	Implementation of a strategic plan to expand audience and make content accessible across multiple platforms	Park Foundation website
Grist		The Schmidt Family Foundation	YES	2012	300,000	To provide general operating support, environmental news & commentary on the web	Form 990
Grist		The Schmidt Family Foundation	YES	2010	250,000	To support Grist's development of its four core areas of reporting: climate policy, consumption, food and innovation	Form 990
<b>InsideClimate News</b>							
<a href="#">Example of coverage: "5-State Study Finds Unsafe Levels of Airborne Chemicals Near Oil and Gas Sites"</a>	Lost Light Preservation Project	The Marisla Foundation	YES	2013	300,000	(Approved) General Support for InsideClimate News	Form 990
InsideClimate News	Public Interest Projects	The Marisla Foundation	YES	2012	150,000	Science First/InsideClimate News	Form 990
InsideClimate News	Lost Light Projects, Inc.	Park Foundation	YES	2014	25,000	General operating support for InsideClimate News	Park Foundation website
InsideClimate News		Park Foundation	YES	2013	25,000	General support for InsideClimate News to report and publish articles on two beats: air and water pollution related to hydraulic fracturing; and an investigation into the U.S. petcoke industry and its financing	Park Foundation website
InsideClimate News		Rockefeller Brothers Fund, Inc.	YES	2013	200,000	For its InsideClimate News project	Form 990
<b>National Public Radio</b>							
<a href="#">Example of coverage: "Cancerous air toxins detected at frack sites"</a>		Park Foundation	YES	2013	100,000	2014 Environmental Coverage	Park Foundation website
National Public Radio		Park Foundation	YES	2012	100,000	Support of NPR's environmental coverage	Park Foundation website
National Public Radio		Park Foundation	YES	2011	100,000	Sustaining NPR's coverage of environmental issues	Park Foundation website
National Public Radio		Park Foundation	YES	2010	100,000	Coverage of environmental issues	Park Foundation website
National Public Radio		Park Foundation	YES	2009	100,000	Coverage of environmental issues	Park Foundation website
					<b>SMF TOTAL</b>	<b>110,000</b>	
					<b>HEFN TOTAL</b>	<b>2,128,000</b>	

For campaign-related funding, see Table 1.



**Table 4. Ingraffea & Howarth: Research Financial Ties**



Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Cornell University</b>							
Cornell University		Park Foundation	YES	2014	67,000	Educational and advisory efforts to highlight the importance of methane to the greenhouse gas footprint of natural gas	Park Foundation website
Cornell University		Park Foundation	YES	2013	60,000	Continued evaluation of global warming and other environmental impacts of shale gas (Howarth and Marino Lab Group)	Park Foundation website
Cornell University		Park Foundation	YES	2012	60,000	Continued evaluation and presentations on methane and the global warming consequences of shale gas and a risk assessment of radon in shale gas	Park Foundation website
Cornell University		Park Foundation	YES	2011	25,000	Research on local community responses to hydraulic fracturing, focused on New York communities that are devising strategies to regulate fracking within their jurisdictions	Park Foundation website
Cornell University		Park Foundation	YES	2011	48,229	The further development and dissemination of the study measuring the greenhouse gas footprint of the Marcellus shale gas exploration and use	Park Foundation website
Cornell University		Park Foundation	YES	2010	35,000	Completion and dissemination of a study estimating the greenhouse gas consequences of drilling and using Marcellus Shale gas	Park Foundation website
Howarth		Wallace Global Fund	YES	Undisclosed	Undisclosed	Undisclosed	Funding acknowledged in Howarth's 5-College Program Geology Lecture at Smith College on March 3, 2015 titled "Methane emissions make shale gas a bridge to nowhere."
					<b>HEFN TOTAL</b>	<b>295,229</b>	

For campaign-related funding, see Table 1.



**YES! Magazine**

Example of coverage: "Communities Push Back on Fracking"	Positive Futures Network	Park Foundation	YES	2009	15,000	YES! magazine's High Impact Campaigns on issues related to education, the economy, climate change and the local food movement	Park Foundation website
				HEFN TOTAL	6,633,000		

For campaign-related funding, see Table 1.

**Table 6. The PSE Paper: Research Financial Ties**


Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Physicians Scientists and Engineers for Healthy Energy</b>							
Physicians Scientists and Engineers for Healthy Energy		Claneil Foundation, Inc.	YES	2013	45,000	Organizational support	Form 990
Physicians Scientists and Engineers for Healthy Energy		The Heinz Endowments	YES	2014	40,000	to assess and increase awareness of risks to children and their environments relating to shale development in Pennsylvania	The Heinz Endowments website
Physicians Scientists and Engineers for Healthy Energy		The Heinz Endowments	YES	2013	60,000	to research and develop resources to minimize and prevent human health impacts from unconventional natural gas development	Form 990
Physicians Scientists and Engineers for Healthy Energy		The Heinz Endowments	YES	2013	60,000	to provide support to develop and expand strong outreach to public health and medical communities, as well as the general public, on the health dimensions of shale gas development	Form 990
Physicians Scientists and Engineers for Healthy Energy		The Heinz Endowments	YES	2012	100,000	to research and develop resources to minimize and prevent human health impacts from unconventional natural gas development	Form 990
Physicians Scientists and Engineers for Healthy Energy		Park Foundation	YES	2014	60,000	General operating support	Park Foundation website
Physicians Scientists and Engineers for Healthy Energy		Park Foundation	YES	2013	50,000	General operating support	Park Foundation website
Physicians Scientists and Engineers for Healthy Energy	Sustainable Markets Foundation	Park Foundation	YES	2012	40,000*	General operating support for Physicians, Scientists and Engineers for Healthy Energy, which assembles and disseminates peer-reviewed research and information on hydrofracking	Park Foundation website
Physicians Scientists and Engineers for Healthy Energy	Sustainable Markets Foundation	Park Foundation	YES	2011	20,000*	As it supplies vetted resources and solid scientific information on unconventional gas development to the public and policymakers	Park Foundation website
Physicians Scientists and Engineers for Healthy Energy		The Schmidt Family Foundation	YES	2013	100,000	To support the analysis of the Monterey shale play in CA	Form 990
Physicians Scientists and Engineers for Healthy Energy		Sustainable Markets Foundation	NO	2012	177,275	Environmental Preservation	Form 990
Physicians Scientists and Engineers for Healthy Energy		Sustainable Markets Foundation	NO	2011	120,000		Form 990
Physicians Scientists and Engineers for Healthy Energy		Sustainable Markets Foundation	NO	2010	20,000	Climate Change	Form 990
					<b>SMF TOTAL</b>	<b>317,275</b>	
					<b>HEFN TOTAL</b>	<b>515,000</b>	

For campaign-related funding, see Table 1.

\*HEFN pass-through grants to SMF are listed for reference. However, they are not included in HEFN total.

Table 7. The PSE Paper: Media Financial Ties

Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Bill Moyers</b>							
<a href="#">Example of coverage: "Here's What Fracking Can Do to Your Health"</a>	Independent Production Fund	<b>The Marisla Foundation</b>	YES	2012	500,000	Moyers and Company	Form 990
Bill Moyers	Independent Production Fund	<b>The Marisla Foundation</b>	YES	2011	500,000	Moyers and Company	Form 990
Bill Moyers	Independent Production Fund	<b>The Marisla Foundation</b>	YES	2011	500,000	Moyers and Company (approved for future payment)	Form 990
Bill Moyers	Independent Production Fund	<b>Park Foundation</b>	YES	2014	500,000	Moyers & Company	Park Foundation website
Bill Moyers	Independent Production Fund	<b>Park Foundation</b>	YES	2011	1,000,000	The multimedia project, Moyers & Company	Park Foundation website
Bill Moyers	Educational Broadcasting Corporation (WNET-TV)	<b>Park Foundation</b>	YES	2009	1,000,000	Series support for Bill Moyers Journal	Park Foundation website
<b>Grist</b>							
<a href="#">Example of coverage: "Here's what fracking can do to your health"</a>		<b>Park Foundation</b>	YES	2014	15,000	general operating support	Park Foundation website
Grist		<b>Park Foundation</b>	YES	2013	35,000	Expanding coverage of climate change	Park Foundation website
Grist		<b>Park Foundation</b>	YES	2011	30,000	general operating support	Park Foundation website
Grist		<b>Park Foundation</b>	YES	2010	30,000	general operating support	Park Foundation website
Grist		<b>Park Foundation</b>	YES	2009	43,000	Implementation of a strategic plan to expand audience and make content accessible across multiple platforms	Park Foundation website
Grist		<b>The Schmidt Family Foundation</b>	YES	2012	300,000	To provide general operating support, environmental news & commentary on the web	Form 990
Grist		<b>The Schmidt Family Foundation</b>	YES	2010	250,000	To support Grist's development of its four core areas of reporting: climate policy, consumption, food and innovation	Form 990
<b>In These Times</b>							
<a href="#">Example of coverage: "Fracking the Poor"</a>	Institute for Public Affairs	<b>Park Foundation</b>	YES	2014	10,000	General operating support for In These Times magazine	Park Foundation website
In These Times	Institute for Public Affairs	<b>Park Foundation</b>	YES	2013	15,000	General operating support for In These Times Magazine	Park Foundation website
<b>Mother Jones</b>							
<a href="#">Example of coverage: "Here's What Fracking Can Do to Your Health"</a>	Foundation for National Progress	<b>Park Foundation</b>	YES	2014	15,000	General operating support (www.motherjones.com)	Park Foundation website
Mother Jones	Foundation for National Progress	<b>Park Foundation</b>	YES	2014	100,000	The Climate Desk and Mother Jones' Dark Money Reporting	Park Foundation website
Mother Jones	Foundation for National Progress	<b>Park Foundation</b>	YES	2013	20,000	General operating support (www.motherjones.com)	Park Foundation website
Mother Jones	Foundation for National Progress	<b>Park Foundation</b>	YES	2013	100,000	The Climate Desk and Mother Jones' Dark Money Reporting	Park Foundation website
Mother Jones	Foundation for National Progress	<b>Park Foundation</b>	YES	2012	30,000	General operating support (www.motherjones.com)	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	<b>Park Foundation</b>	YES	2011	30,000	General operating support	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	<b>Park Foundation</b>	YES	2010	40,000	General operating support	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	<b>Park Foundation</b>	YES	2010	100,000	The Climate Desk, a journalistic collaboration by Mother Jones, Slate, The Atlantic, Wired, Grist, the Center for Investigative Reporting and Need to Know	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	<b>Park Foundation</b>	YES	2009	100,000	Assignment 2020: Reporting as if the Future Depended on It, a collaborative journalism initiative on climate change issues	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	<b>Park Foundation</b>	YES	2009	55,000	General operating support	Park Foundation website
Mother Jones		<b>The Schmidt Family Foundation</b>	YES	2012	225,000	To support food & environmental reporting, public affairs outreach	Form 990
<b>Truthout</b>							
<a href="#">Example of coverage: "Fracking the Farm: Scientists Worry About Chemical Exposure to Livestock and Agriculture"</a>		<b>Park Foundation</b>	YES	2014	15,000	General operating support	Park Foundation website
Truthout		<b>Park Foundation</b>	YES	2013	15,000	General operating support	Park Foundation website
Truthout		<b>Park Foundation</b>	YES	2012	15,000	General operating support	Park Foundation website
Truthout		<b>Park Foundation</b>	YES	2010	15,000	General operating support	Park Foundation website
					<b>HEFN TOTAL</b>	<b>5,603,000</b>	

For campaign-related funding, see Table 1.

**Table 8. The Earthworks Paper: Research Financial Ties**



Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Earthworks Oil &amp; Gas Accountability Project</b>							
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2014	70,000	Oil & Gas Accountability Project work in the Marcellus and Utica Shale regions	Park Foundation website
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2013	70,000	Oil & Gas Accountability Project work in the Marcellus Shale region	Park Foundation website
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2013	10,000	General operating support	Park Foundation website
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2012	65,000	Oil and Gas Accountability Project's Marcellus region work and its Stop the Frack Attack national collaboration activities	Park Foundation website
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2011	60,000	Work with local communities in the Marcellus Shale region to defend their rights and hold energy companies accountable and to advance policy solutions in New York that will make it a national model for protecting its citizens and the environment	Park Foundation website
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2010	70,000	Work to protect communities and the environment from the destructive impacts of gas development in the Marcellus Shale region	Park Foundation website
Earthworks Oil & Gas Accountability Project		Park Foundation	YES	2009	70,000	Oil & Gas Accountability Project expansion to the Marcellus Shale region	Park Foundation website
Earthworks Oil & Gas Accountability Project		The Schmidt Family Foundation	YES	2013	150,000	To support Oil and Gas Accountability Project	Form 990
Earthworks Oil & Gas Accountability Project		The Schmidt Family Foundation	YES	2012	150,000	To support Earthwork's Oil & Gas Accountability	Form 990
Earthworks Oil & Gas Accountability Project		The Schmidt Family Foundation	YES	2011	75,000	To support Earthworks' Oil and Gas Accountability Project	Form 990
					<b>HEFN TOTAL</b>	<b>790,000</b>	

For campaign-related funding, see Table 1.



**Table 9. The Earthworks Paper: Media Financial Ties**



Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Grist</b>							
<a href="#">Example of coverage: "Fracking ourselves to death in Pennsylvania"</a>		Park Foundation	YES	2014	15,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2013	35,000	Expanding coverage of climate change	Park Foundation website
Grist		Park Foundation	YES	2011	30,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2010	30,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2009	43,000	Implementation of a strategic plan to expand audience and make content accessible across multiple platforms	Park Foundation website
Grist		The Schmidt Family Foundation	YES	2012	300,000	To provide general operating support, environmental news & commentary on the web	Form 990
Grist		The Schmidt Family Foundation	YES	2010	250,000	To support Grist's development of its four core areas of reporting: climate policy, consumption, food and innovation	Form 990
<b>Mother Jones</b>							
<a href="#">Example of coverage: "Fracking Pennsylvania to Death"</a>	Foundation for National Progress	Park Foundation	YES	2014	15,000	General operating support (www.motherjones.com)	Park Foundation website
Mother Jones	Foundation for National Progress	Park Foundation	YES	2014	100,000	The Climate Desk and Mother Jones' Dark Money Reporting	Park Foundation website
Mother Jones	Foundation for National Progress	Park Foundation	YES	2013	20,000	General operating support (www.motherjones.com)	Park Foundation website
Mother Jones	Foundation for National Progress	Park Foundation	YES	2013	100,000	The Climate Desk and Mother Jones' Dark Money Reporting	Park Foundation website
Mother Jones	Foundation for National Progress	Park Foundation	YES	2012	30,000	General operating support (www.motherjones.com)	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	Park Foundation	YES	2011	30,000	General operating support	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	Park Foundation	YES	2010	40,000	General operating support	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	Park Foundation	YES	2010	100,000	The Climate Desk, a journalistic collaboration by Mother Jones, Slate, The Atlantic, Wired, Grist, the Center for Investigative Reporting and Need to Know	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	Park Foundation	YES	2009	100,000	Assignment 2020: Reporting as if the Future Depended on It, a collaborative journalism initiative on climate change issues	Park Foundation website
Mother Jones	Foundation for National Progress/Mother Jones	Park Foundation	YES	2009	55,000	General operating support	Park Foundation website
Mother Jones		The Schmidt Family Foundation	YES	2012	225,000	To support food & environmental reporting, public affairs outreach	Form 990
<b>Sourcewatch</b>							
<a href="#">Example of coverage: "Fracking and health effects"</a>	Center for Media & Democracy	The Marisla Foundation	YES	2012	100,000	General support for Eco-Sourcewatch Project	Form 990
Sourcewatch	Center for Media & Democracy	The Marisla Foundation	YES	2011	100,000	General support for Eco-Sourcewatch Project	Form 990
Sourcewatch	Center for Media & Democracy	The Marisla Foundation	YES	2010	100,000	General support for Eco-Sourcewatch Project	Form 990
<b>Truthout</b>							
<a href="#">Example of coverage: "Fracking in Pennsylvania Poisoning Communities as Floodgates Open for Drilling on Campuses, Public Parks"</a>		Park Foundation	YES	2014	15,000	General operating support	Park Foundation website
Truthout		Park Foundation	YES	2013	15,000	General operating support	Park Foundation website
Truthout		Park Foundation	YES	2012	15,000	General operating support	Park Foundation website
Truthout		Park Foundation	YES	2010	15,000	General operating support	Park Foundation website
<b>HEFN TOTAL</b>					<b>1,878,000</b>		

For campaign-related funding, see Table 1 .

Table 10. The Nicholas School Papers: Research Financial Ties



Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
Nicholas School of the Environment, Duke University							
Nicholas School of the Environment, Duke University		Park Foundation	YES	2013	70,000	Study of the environmental effects of gas drilling wastewater production and disposal	Park Foundation website
Nicholas School of the Environment, Duke University		Park Foundation	YES	2011	50,000	The completion of a study of the impact of gas drilling and hydraulic fracturing on water quality and to promote policy safeguards	Park Foundation website
					HEFN TOTAL	120,000	

For campaign-related funding, see Table 1.

**Table 11. The Nicholas School Papers: Media Financial Ties**



Recipient	Pass-Through	Funder	HEFN?	Year	Amount	Stated Purpose	Source
<b>Climate Central</b>							
<a href="#">Example of coverage: "Fracking May Be Polluting River with Radioactive Waste"</a>		The Schmidt Family Foundation	YES	2013	1,250,000	To provide general operating and media support	Form 990
<a href="#">Example of coverage: "Catastrophe" Claim Adds Fuel to Methane Debate"</a>		The Schmidt Family Foundation	YES	2012	1,500,000	To provide general operating support, education on climate change	Form 990
Climate Central		The Schmidt Family Foundation	YES	2011	2,300,000	To support Climate Central's general operating expenses; matching funds	Form 990
Climate Central		The Schmidt Family Foundation	YES	2010	3,000,000	To support general operating expenses	Form 990
<b>Common Dreams</b>							
<a href="#">Example of coverage: "Radioactive Water Streaming Out of Pennsylvania Fracking Waste Site"</a>		Park Foundation	YES	2014	45,000	General operating support (over three years)	Park Foundation website
<a href="#">Example of coverage: "Study: Drinking Water Contamination Linked to Fracking, Horizontal Drilling"</a>		Park Foundation	YES	2013	15,000	General operating support	Park Foundation website
Common Dreams		Park Foundation	YES	2012	15,000	General operating support	Park Foundation website
Common Dreams		Park Foundation	YES	2011	15,000	General operating support	Park Foundation website
Common Dreams		Park Foundation	YES	2010	10,000	General operating support	Park Foundation website
<b>DeSmog Blog</b>							
<a href="#">Example of coverage: "Scientists Confirm Fracking Link To Flammable Drinking Water"</a>		Sustainable Markets Foundation	NO	2011	110,000	Media & advocacy	Form 990
<b>Grist</b>							
<a href="#">Example of coverage: "Study links fracking to drinking water pollution"</a>		Park Foundation	YES	2014	15,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2013	35,000	Expanding coverage of climate change	Park Foundation website
Grist		Park Foundation	YES	2011	30,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2010	30,000	general operating support	Park Foundation website
Grist		Park Foundation	YES	2009	43,000	Implementation of a strategic plan to expand audience and make content accessible across multiple platforms	Park Foundation website
Grist		The Schmidt Family Foundation	YES	2012	300,000	To provide general operating support, environmental news & commentary on the web	Form 990
Grist		The Schmidt Family Foundation	YES	2010	250,000	To support Grist's development of its four core areas of reporting: climate policy, consumption, food and innovation	Form 990
<b>InsideClimate News</b>							
<a href="#">Example of coverage: "Can Fracking Pollute Drinking Water? Don't Ask the EPA"</a>	Lost Light Preservation Project	The Marisla Foundation	YES	2013	300,000	(Approved) General Support for InsideClimate News	Form 990
InsideClimate News	Public Interest Projects	The Marisla Foundation	YES	2012	150,000	Science First/InsideClimate News	Form 990
InsideClimate News	Lost Light Projects, Inc.	Park Foundation	YES	2014	25,000	General operating support for InsideClimate News	Park Foundation website
InsideClimate News		Park Foundation	YES	2013	25,000	General support for InsideClimate News to report and publish articles on two beats: air and water pollution related to hydraulic fracturing; and an investigation into the U.S. petcoke industry and its financing	Park Foundation website
InsideClimate News		Rockefeller Brothers Fund, Inc.	YES	2013	200,000	For its InsideClimate News project	Form 990
<b>Media Matters for America</b>							
<a href="#">Example of coverage: "Ignoring Reality, Stossel Dismisses Fracking Health Hazards"</a>		The Marisla Foundation	YES	2011	175,000	General Support for Research & Information Center	Form 990
Media Matters for America		The Marisla Foundation	YES	2010	200,000	General Support for Research & Information Center	Form 990
Media Matters for America		The Marisla Foundation	YES	2010	175,000	(Approved for future payment) Research and Information Center	Form 990
Media Matters for America		Park Foundation	YES	2013	10,000	Climate and Energy Initiative to confront misinformation and drive a strong pro-climate narrative into the mainstream media	Park Foundation website
Media Matters for America		Park Foundation	YES	2012	10,000	Climate and Energy Initiative	Park Foundation website
Media Matters for America		Park Foundation	YES	2011	10,000	General operating support	Park Foundation website

Media Matters for America		Park Foundation	YES	2010	10,000	General operating support	Park Foundation website
Media Matters for America		Park Foundation	YES	2009	10,000	General operating support	Park Foundation website
Media Matters for America		Rockefeller Brothers Fund, Inc.	YES	2013	100,000	For its Climate and Energy Initiative	Form 990
Media Matters for America		Rockefeller Brothers Fund, Inc.	YES	2012	100,000	For its Climate and Energy Initiative	Form 990
Media Matters for America		Rockefeller Brothers Fund, Inc.	YES	2011	100,000	For its 2011 environmental initiative	Form 990
Media Matters for America		Wallace Global Fund II	YES	2013	75,000	General Support to promote independent voices in the media	Form 990
Media Matters for America		Wallace Global Fund II	YES	2012	75,000	General support to promote independent voices in the media	Form 990
Media Matters for America		Wallace Global Fund II	YES	2011	50,000	General support to promote independent voices in the media	Form 990
Media Matters for America		Wallace Global Fund II	YES	2010	100,000	7/1/10-6/30/11	Form 990
Media Matters for America		Wallace Global Fund II	YES	2009	35,000	Grant, General Support	Form 990
Media Matters for America		Wallace Global Fund II	YES	2009	25,000	Grant, General Support	Form 990
<b>Pro Publica</b>							
<a href="#">Example of coverage: "Scientific Study Links Flammable Drinking Water to Fracking"</a>		Cedar Tree Foundation	YES	2013	50,000	Project Support for the ProPublica Inc Environmental Trust	Form 990
<a href="#">Example of coverage: "New Study: Fluids from Marcellus Shale Likely Seeping Into PA Drinking Water"</a>		Cedar Tree Foundation	YES	2011	25,000	general support for environmental reporting	Form 990
Pro Publica		The Marisla Foundation	YES	2013	350,000	General support for Investigative Journalism	Form 990
Pro Publica		The Marisla Foundation	YES	2012	300,000	General support for Investigative Journalism	Form 990
Pro Publica		The Marisla Foundation	YES	2011	200,000	General support for Investigative Journalism	Form 990
<b>Truthout</b>							
<a href="#">Example of coverage: "Contaminated Water Supplies, Health Concerns Accumulate With Fracking Boom in Pennsylvania"</a>		Park Foundation	YES	2010	15,000	General operating support	Park Foundation website

<b>SMF TOTAL</b>	<b>110,000</b>
<b>HEFN TOTAL</b>	<b>11,753,000</b>

For campaign-related funding, see Table 1.

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