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## Fighting Off a Petrochemical Future in the Ohio River Valley

 7 MIN READ BY DHARNA NOOR & APR 12, 2022 **NICOLE FABRICANT** anessa Lynch grew up in the Pittsburgh suburbs in the 1980s and '90s but moved away for college. She returned to the area

a decade later with her husband and then-1-year-old child.

Shell Oil's construction of a plastic manufacturing plant, on the banks of the Ohio River, in Beaver County,

plants. Local activists imagine a different path.

The gas industry envisions a network of fossil-fuel dependent

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Pennsylvania.

PHOTO BY RYAN GATTIS

It was 2007, and the fracking industry was just beginning to take hold in southwest Pennsylvania. The then-fledgling industry was not really on Lynch's radar; between raising a daughter and working full-

time as a therapist, she had her hands full. Things got even busier when she had her son in April 2009 and he began suffering from frightening wheezing spells when he was 6 months old, requiring periodic medical attention.

"Honestly, I really had very little understanding of what was going on in the region," she says. Just before her daughter was set to start kindergarten, Lynch and her

family moved half an hour away to Indiana Township to be close to a

good school and have more space to play outside. The neighborhood had everything the growing family could hope for, with a park to play soccer and softball and a creek for summertime wading.

A couple of years later, however, she learned via a neighbor's Facebook post that the fracking industry had quietly placed a gas

drilling site in her community, just above the local park. Infuriated

and inspired to act, in 2018, Lynch joined up with the local chapter of the national environmental advocacy group Moms Clean Air

Force, where she now works as a part-time organizer.

Lynch and her fellow organizers were not able to shut down the well pad, but they did win more protective ordinances for the township,

shielding approximately 85% of its land from future drilling.

Now, though, there's another threat lurking at Lynch's door: a plastics manufacturing plant that Shell Oil is constructing just an

hour away, on the banks of the Ohio River.

Shell's ethane-cracker plant, which it began building in 2017, is set to

open later this year, but the company has not yet announced a firm date and did not respond to a request for comment. The first facility of its kind in Appalachia, it will use extreme heat to "crack" ethane, a byproduct of fracked gas, into ethylene, a building block for

manufacturing plastic.

communities like Lynch's.

From Gas to Plastic

cases to auto parts. As it does, the facility will spew hundreds of tons of dangerous compounds into the air while also emitting planetheating pollution. And it will be fed by the fracked gas from thousands of wells peppered across Appalachian communities—

The fossil fuel industry is a powerful political and economic force in

Pennsylvania, and Lynch's organizing has been an uphill battle. In

In the roughly 15 years since fracking first came to Appalachia, gas

recent years, though, the market has been on her side.

The facility will produce more than 1 million tons of plastic pellets

per year, which will be used to make products ranging from phone

has become a far riskier investment. Until Russia's recent invasion of Ukraine, growth in global demand was on the decline, especially amid the spread of COVID-19. One 2021 study even found that Appalachian gas may never be profitable again.

In plastic, however, the fossil fuel industry sees a chance to turn itself

around, solidifying demand for fracked gas in the region for decades

to come. Local officials are on board with the scheme—they awarded

Shell one of the largest public subsidy packages in national history.

Advocates are particularly concerned because the Shell cracker plant

isn't meant to be the sole plastic plant in the region. Rather, it is part

of a plan to transform Appalachia's Ohio River Valley into a plastic and petrochemical hub, with cracker plants, storage facilities, and gas pipelines erected across Ohio, Pennsylvania, West Virginia, and Kentucky.

"These plants don't stand alone, and they require a high volume of

natural gas to do the work that they do," Lynch says. "So when you

think about the Ohio River Valley and the potential for these sorts of

very large polluters to become more and more common, it really does

In Lynch's township, gas companies are currently extracting gas from

eight wells. But six more are permitted for future use if the industry

become a more concerning story."

**Health Impacts** 

decides to develop them, and as demand for ethane increases to supply the cracker plant (or plants), she is concerned that the number could rise. Nearby areas, many of them more economically depressed, are far more open to drilling than hers. The most fracked county in the state

is Washington County, where the poverty rate is 3% higher than it is

in Lynch's township. But as demand grows, Lynch says, fracking is

"[Washington County] is where fracking really started in southwest

PA, so it's the most concentrated," she says. "What we're finding is,

as they're looking for places to expand, we're the next generation of

municipalities could spread across the region. The air in the area is

already polluted: A 2013 study found that Allegheny County, which

Since emissions don't respect borders, pollution from nearby

comprises the greater Pittsburgh area, including Indiana Township, is in the top 2% of areas in the U.S. for cancer risks from air pollution.

other illnesses.

expanding.

areas that they're coming to."

Fracking—shorthand for "hydraulic fracturing"—involves pumping chemicals, such as benzene, antifreeze, and diesel, deep underground to fracture shale deposits and release the gas stored within them. The process releases airborne benzene, formaldehyde, particulate matter,

and ammonia, which have been linked to respiratory ailments and

There is no way to determine whether fracking contributed to Lynch's

son's lung issues due to his proximity to fracking operations, but the

practice has been linked to shortness of breath, worsened asthma, and

other respiratory ailments. There are other health impacts to worry about too. Used fracking chemicals often get <u>dumped into rivers</u>—a concern that some <u>state</u> and federal authorities have ignored.

Drilling into shale for gas can also release radioactive materials, like

uranium\_and\_thorium, that have been buried for millennia. In recent

years, dozens of children have contracted rare cancers, including

Ewing sarcoma, in southwest Pennsylvania. Researchers suspect

"Fracking makes people sick. It makes people very sick," says Ned

Ketyer, a retired pediatrician and board member of Physicians for

With the imminent opening of Shell's cracker plant, Ketyer says there

will be even more risks to health on the horizon from the plant's

emissions, including nitrogen oxide, ozone, and volatile organic

compounds, as well as the increased demand for fracked gas.

Social Responsibility, a physician-led organization focused on

exposure to radiation could be responsible.

environmental health.

says.

Challenges

fuels, but despite the evidence that gas is harming locals, he's found that not everyone is interested in pushing back. "This is an area where people have lived for generations, extracting

fossil fuel and supporting the industries that extract fossil fuels," he

Growing up in the Pittsburgh suburbs, Lynch didn't think much

about pollution. Neither, she says, did her family members—even

"He used to tell a story about how when he would get up in the

morning, he would put on his white shirt to go to work, and when he

would come home in the evening, the shirt would be gray," she says.

Polluting, fossil fuel-based industries—coal, steel, and now gas—have

industry will put people back to work. In southwest Pennsylvania, the

long formed the backbone of the region's economy. The resulting

public desensitization to pollution has posed difficulties in local

environmental organizing. So have Shell's claims that the plastic

instance, was an electrical engineer in the steel industry.

those who were exposed to it each day at work. Her grandfather, for

Ketyer has spent years raising the alarm about the dangers of fossil

unemployment rate is significantly above the national average. "We are often prepared to trade our health for jobs," says Lois Bower-Bjornson, field organizer for Clean Air Council, who lives in

Amid dwindling employment opportunities, local unions have been

claimed the facility would create thousands of jobs, that projection

overwhelmingly supportive of the cracker plant. But while Shell once

Matt Mehalik, executive director of the Breathe Project, a coalition of

environmental and public health groups focused on the Pittsburgh

region, says that even some residents who are skeptical of the fossil

fuel industry's expansion plans are nervous to publicly take a stand.

They fear backlash not only from their neighbors, but also from the

multiple generations that it's better to just go along and get along and

not raise up these issues—that if you want to be able to survive in this

county, you keep your mouth shut," he says. "That's what we run up

"There's a cultural history where people have learned through

southwest Pennsylvania's Washington County.

later dropped to the hundreds.

industry or its government allies.

dozens of people to testify at hearings.

plant will monitor its emissions on-site.

pollution.

against. That is a legacy of [the region's] industrial past." Resistance Despite the challenges, a small yet vibrant movement in southwest Pennsylvania is fighting plans for gas and plastic expansion: holding protests, writing op-eds and letters to elected officials, and mobilizing

They have achieved some wins, including the fact that the cracker

Activists have also taken emissions tracking into their own hands,

using both naked-eye observations and low-cost monitors to track

Beyond fighting the Shell plant itself, Lynch has also been advocating

pollution to ensure Shell is complying with regulations.

for a fairer regulatory environment, pressuring the federal

government to keep its promise to instate strict regulation on

methane emissions and advocating for the state of Pennsylvania to

join a regional climate initiative, two measures that could lessen local

Activists are also working to boost public awareness of the dangers of

fracking and plastic. Bower-Bjornson of the Clean Air Council, for

impacts of fracking, showing attendees well pads and compressor

sites and introducing them to people impacted by their pollution.

Like the planned petrochemical hub, the movement for a healthier

and safer environment transcends state lines. This varied opposition is

necessary, since there's no single policy that can take down the fossil

fuel industry, says Dustin White, a senior campaigner on plastics and

petrochemicals with the Center for International Environmental Law.

instance, organizes tours to introduce the public to the human

"There's no one thing that's absolutely gonna stop it all," he says, instead calling for a "death by 1,000 paper cuts" approach. White, who lives in West Virginia, says this approach also includes thinking bigger by advocating for a total ban on a petrochemical

build-out. Just as important is helping people envision more just and

sustainable systems, where neither communities nor materials are

treated as disposable: "A more regenerative economy," he says.

Rather than pouring public money into projects that put

Pennsylvanians' health and the climate on the line—and that could be

doomed to collapse anyway—activists say officials should invest in

renewable energy, for example, could create almost a quarter-million

more sustainable industries. Research shows that investments in

out is far from a safe financial bet.

jobs each year in the state.

and economic reforms.

the time her kids are grown. But she gains motivation from knowing there's another path.

"I think about the oil and gas industry in Pennsylvania, but I also

think about all the amazing opportunities we have to protect this

region and to remind people that our health and our well-being

**NICOLE FABRICANT** is a cultural anthropologist whose research interests focus on the cultural

politics of resource wars in Latin America and the US. Her dissertation work and recent

publications have centered on the Landless Peasant Movement (MST-Bolivia), a 50,000-

member social movement comprised of displaced peasants, informal laborers, and intellectuals fighting for land redistribution and the revitalization of small-scale farming. She has written about the creative ways in which displaced peoples use and mobilize cultural forms to push for political

[have] value," she says. "It's the project of a lifetime."

Lynch fears that if her local economy doesn't change quickly, the

region—and the planet—she calls home could become unlivable by

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It's clear the current economic system isn't\_working for most working-class people in Pennsylvania. It may not even be sustainable for the fossil fuel sector. Financial\_analysts and environmentalists alike have predicted that, due to a variety of market factors and increasing concern about the climate crisis, the petrochemical build-

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