







CUT EMISSIONS NOT FORESTS

CLEARCUTTING U.S. FORESTS IS NOT A CLEAN ENERGY SOLUTION

Global demand for wood pellets to burn for biomass energy – primarily in the UK and Europe – is devastating forests in the Southeast United States. Investigations by media, independent watchdogs, and NGOs over the past decade expose the damaging logging practices used by Enviva – the world's largest wood pellet manufacturer – to supply wood pellets to the biomass industry, including the clearcutting of iconic wetland forests. Enviva then ships pellets from these ravaged forests to utilities overseas, such as the UK's Drax Power Station.

Climate and energy policies in Europe and beyond persist in treating biomass as a "carbon neutral" source of renewable energy and offering utilities lucrative incentives to increase reliance on biomass electricity. But the investigations described and depicted herein provide evidence that the supply chain for biomass is anything but "clean." Instead, despite industry claims to the contrary, wood pellets burned by Drax and others come from wood taken from native hardwood forests in an area of the U.S. deemed a global biodiversity hotspot. This includes vast quantities of whole trees and other large-diameter wood logged via clearcutting, which is the most destructive of all logging practices. Recent satellite research reveals that wood pellet demand has increased hardwood harvesting in Enviva's sourcing areas.

This is worsening the climate crisis. Our forests are a giant storehouse of carbon, storing more carbon than all our known exploitable deposits of oil, gas, and coal and sequestering or "sucking up" a third of all anthropogenic carbon emissions.² When forests are logged, the trees release their stored carbon into the atmosphere and lose the ability to sequester more carbon–referred to as "foregone sequestration."³ Releasing even a small percentage of this stored carbon or reducing the amount of carbon our forests suck from the air will make it infinitely harder to avoid climate devastation. Further, burning biomass from forests for electricity creates more carbon dioxide emissions than burning coal and increased carbon dioxide concentrations persist in the atmosphere for decades or more.⁴

This is also devastating for biodiversity at a time when our planet faces the extinction of one million species.⁵ All of the logging depicted in this booklet occurs in the North Atlantic Coastal Plain Biodiversity Hotspot—one of only two biodiversity hotspots in the United States. These areas are irreplaceable, covering only 2.5% of the earth's surface but containing almost half of its species.⁶ The clearcutting of forests in this area harms many unique plant and animal species, including at least 30 species of birds that are the focus of conservation efforts like the Wood Stork, the Bachman's Warbler, the Ivory-billed Woodpecker, the Chimney Swift, and the Rusty Blackbird (the latter two of which are "threatened with extinction" on the IUCN Red List).⁷

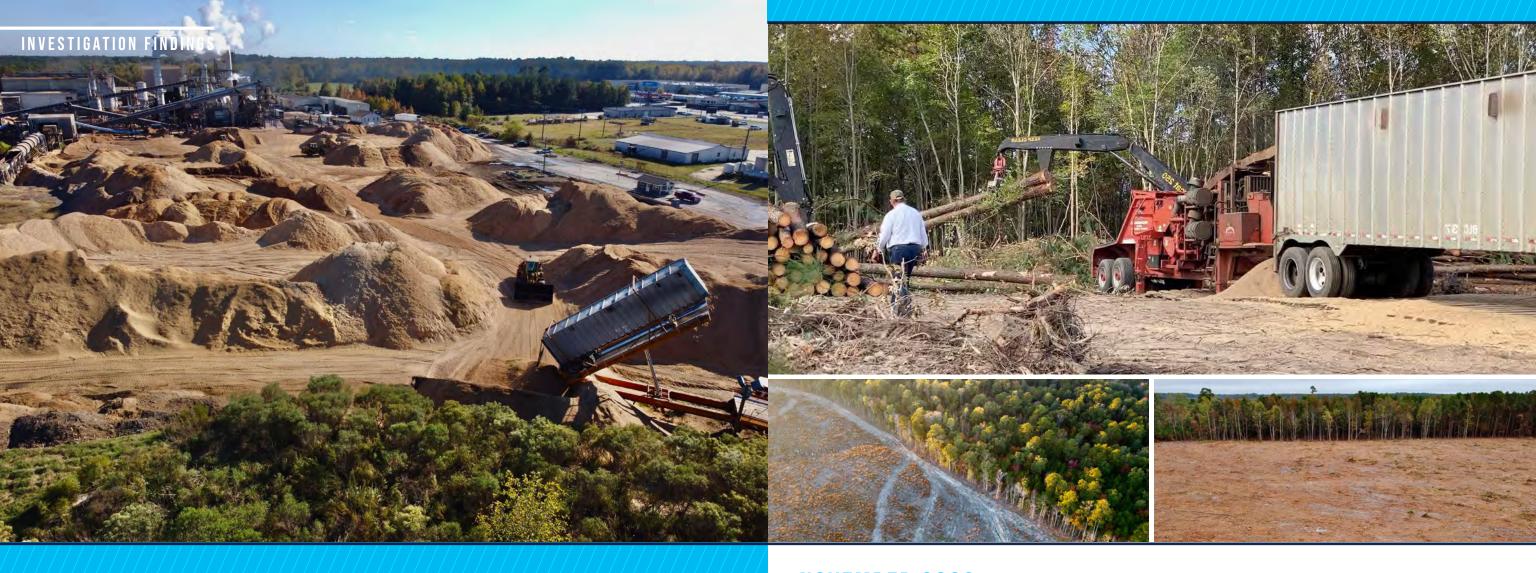
Finally, sourcing for biomass in the U.S. Southeast is harming environmental justice communities—that is, communities that are home to people of color living below the poverty line. Pellet mills are fifty percent more likely to be built in such communities. These mills emit hazardous or toxic air pollutants, including particulate matter, volatile organic compounds, and dust, that can cause cancer and other serious health impacts. The noise pollution from the wood pellet facilities is loud and constant, and can cause stress-related illnesses, high blood pressure, and heart disease, among other medical problems. The logging of nearby forests also leaves these communities vulnerable to the increasingly frequent storms caused by climate change.

This booklet includes photos from yearly investigations conducted in the U.S. Southeast from 2014 to present (excluding 2020, when the investigation was canceled due to COVID-19).



OCTOBER 2023

In October 2023, investigators found a 200+ acre clear-cut where hardwood trees were being chipped on site and observed trucks carrying those chips to Enviva's pellet mill in Ahoskie, NC. The site sits less than a mile from the Perquimans river, which flows into the Albemarle Sound: a 6-million-acre watershed that contains some of the largest areas of bottomland hardwood habitat in the Eastern U.S. This area has experienced tree volume decline due to harvesting, despite the forests' importance as carbon-rich peat-based soils, biodiversity habitat for imperiled species, and protection from climate-change-related storms¹⁷.



NOVEMBER 2022

In November 2022, investigators found Enviva Ahoskie sourcing from a North Carolina coastal plain forest that was being cleared and advertised for future industrial development. Alongside a reporter following up on a whistleblower report¹², the investigative team found Enviva sourcing trees from a mixed hardwood-pine forest with a diversity of tree ages, including sizable old oaks. The loggers were chipping the trees on site, making sourcing verification possible only if an inspector was on site during the chipping process. Furthermore, the plan for future industrial development of the site debunks Enviva's promise to customers and regulators that it only uses wood from sites that will be replanted and remain forests.



DECEMBER 2021

In late December 2021, investigators tracked logging trucks carrying wood chips from the town of Edenton and delivering those chips to Enviva's Ahoskie, North Carolina facility. Investigators witnessed hardwood trees, including what they believe to be hickory trees, being chipped on site before going to Enviva's facility. Most coastal plain hickory species grow in mesic to wet habitats: a habitat Enviva commonly sources from.

The practice of chipping-in-field at the site poses a question to policymakers overseas: can we really ensure sustainability standards are met when we don't even know the types or characteristics of trees being brought to the facility? Chipping on site eliminates yet another opportunity to ensure chain-of-custody standards are being met.



APRIL 2019

In the early spring of 2019, investigators tracked logging trucks from a mature hardwood forest going to Enviva's Northampton, North Carolina facility. The clearcut was located in the Tar-Pamlico River Basin, alongside Sandy Creek, feeding into the Pamlico Sound of North Carolina.



JANUARY 2018

Investigators tracked multiple logging trucks carrying whole hardwood trees and other large-diameter wood to the Enviva Southampton, Virginia facility. The cut left an area of mature wetland forest devastated as well as nearly 100 acres of surrounding natural forest.

The vast clearcut site was located less than a half-mile from the Merrherrin River, which feeds into the Albemarle Sound of North Carolina.

PHOTO SOURCE: CHANNEL 4 UM



FEBRUARY 2017

Investigators tracked logging trucks carrying whole hardwood trees and other large-diameter wood from a destroyed bottomland hardwood clearcut back to the Enviva Sampson County, North Carolina facility.

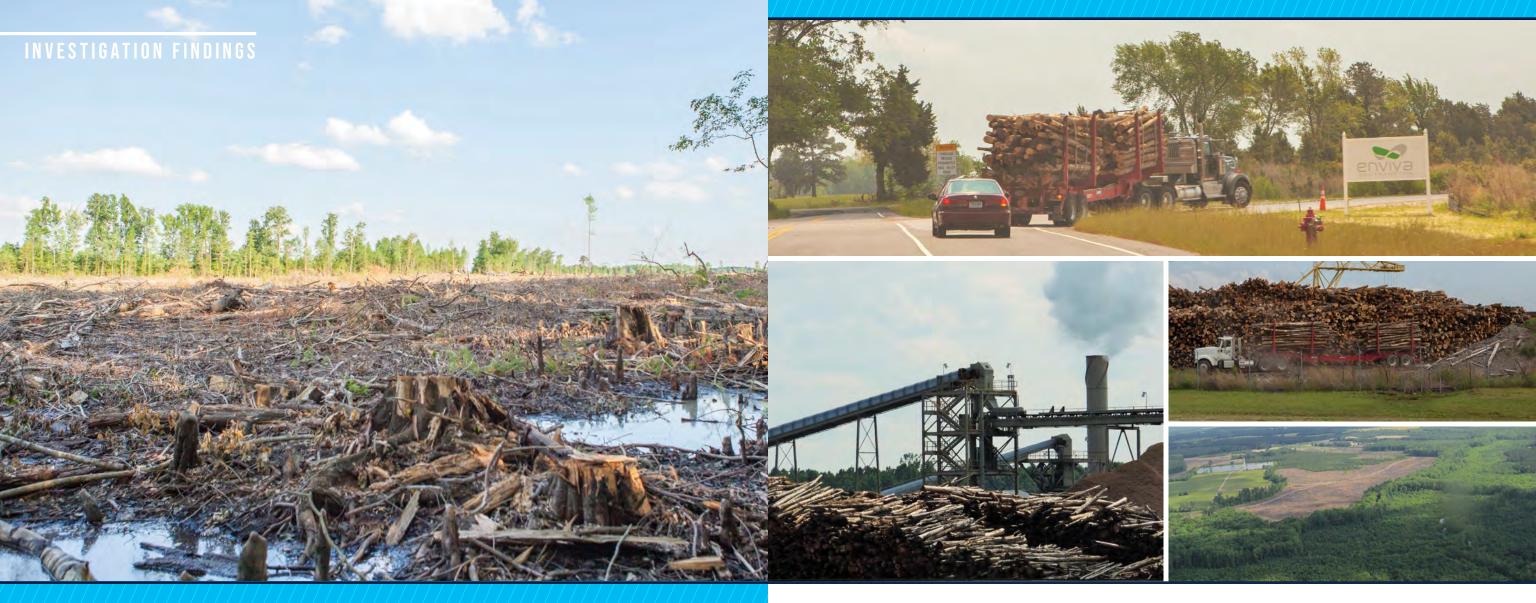
The clearcut site was located in Sampson County, outside of Clinton, North Carolina.



MARCH 2016

Investigators tracked logging trucks carrying whole hardwood trees and other large-diameter wood to the Enviva Ahoskie, North Carolina facility. The cut left a large wetland area desolate.

The clearcut site, captured here in aerial and drone images, was located in the Roanoke River basin in North Carolina, just outside of Williamston, North Carolina.



MAY 2015

Investigators tracked logging trucks carrying whole hardwood trees and other large-diameter wood from a devastated wetland clearcut to Enviva's Southhampton, Virginia and Ahoskie, North Carolina facilities.



DECEMBER 2014

Investigators tracked logging trucks carrying whole hardwood trees and other large-diameter wood from a wetland clearcut back to the Enviva Ahoskie, North Carolina facility.



OTHER INVESTIGATIONS

In addition to the investigations depicted herein, the following investigations conducted by news outlets provide supplementary evidence of Enviva's destructive logging practices for biomass, including:

- In 2021, CNN reported how Enviva's operations are harming marginalized communities of color in the U.S. South and perpetuating decades of environmental racism. Additionally, after years of misleading claims about sourcing only "wastes and residues," CNN described how Enviva took one-quarter of the trees from a clearcut of a one-hundred-year-old wetland forest to turn into wood pellets at its pellet mill in Northampton, North Carolina, which supplies Drax.¹³
- In 2020, investigators from Dutch outlet Eenvandaag came to North Carolina and tracked logging trucks from a mature hardwood forest to Enviva's Northampton, North Carolina wood pellet mill.¹⁴
- In 2018, the UK Channel 4 News program Dispatches reported that a once-majestic wetland forest had been clearcut to supply wood to Enviva, and ultimately to Drax.¹⁵

AS FAR BACK AS 2013, INVESTIGATIVE REPORTING BY THE WALL STREET JOURNAL UNCOVERED ENVIVA'S CLEARCUTTING OF 100 YEAR OLD WETLAND HARDWOOD FORESTS FOR ITS AHOSKIE, NORTH CAROLINA MILL...

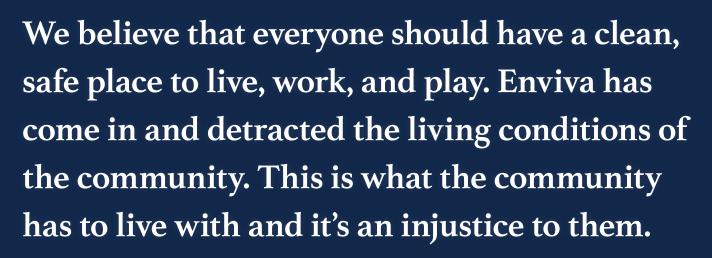
"Logger George Henerson said that earlier this year, he sold Enviva several hundred tons of hardwood that his crew clear-cut from a swamp that hadn't been logged for about 100 years.

Enviva, now they need wood bad enough that they're paying for some swamp logging," said Mr. Henerson.

- THE WALL STREET JOURNAL

"It will take tens if not hundreds of years for it [the forest] to recover, if ever." PROFESSOR ALAN WEAKLEY, UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, AS TOLD TO CHANNEL 4 UK, JANUARY 20





- BELINDA JOYNER, NORTHEASTERN, ORGANIZER, CLEAN WATER FOR NC







WE MUST CUT EMISSIONS, NOT FORESTS

Policymakers and the biomass industry have for years claimed the wood pellets they burn have been sourced sustainably and, thus, meet sustainability criteria many countries have in place for such imports. Yet, the damaging practices documented in the investigations herein are all happening under the umbrella of such "sustainability" standards, proving that such criteria are not working.

Countries looking to meet their commitments under the Paris Climate Agreement and phase out coal must stop wasting scarce public resources subsidizing dirty and destructive biomass energy. Instead, policymakers in the United Kingdom, other European Union member states, and emerging markets for bioenergy around the world should redirect investments to genuinely zero-carbon energy sources like energy efficiency, solar and wind. ¹⁶ We must cut emissions, not forests.

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²Climate and Land Use Alliance. "Five Reasons The Earth's Climate Depends on Forests," http://www.climateandlandusealliance.org/scientists-statement/ (accessed June 1, 2022).

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⁵ IPBES. (2019). Summary for policymakers of the global assessment report on biodiversity and ecosystem services, https://zenodo.org/record/3553579#.YpeU-qjMI2w.

⁶ Conservation International, "Biodiversity Hotspots," https://www.conservation.org/priorities/biodiversity-hotspots (accessed June 1, 2022); Southern Environmental Law Center. April 14, 2022. Southeast U.S. Wood Pellet Plants Exporting to Europe,https://www.southernenvironment.org/wp-content/uploads/2022/04/SELC_WoodPelletExportMap_2022_0414_maptable.pdf.

⁷ Southern Environmental Law Center. (2021). Wood Pellet Industry Harms Birds of Conservation Concern in the U.S. Southeast, https://www.southernenvironment.org/wp-content/uploads/legacy/publications/Wood_Pellet_Handout_2021_FINAL.pdf.

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⁹ Environmental Integrity Project. (2018). Dirty Deception: How the Wood Biomass Industry Skirts the Clean Air Act, https://www.sec.gov/rules/petitions/2019/ptn4-741-exc.pdf; see also Buonocore, J.J. (2021). A decade of the U.S. energy mix transitioning

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¹² Justin Catanoso. Dec. 5, 2022. Whistleblower: Enviva claim of 'being good for the planet_all nonsense', https://news.mongabay.com/2022/12/envivas-biomass-lies-whistleblower-account/.

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