



epidemics

Climate change, and Forest-risk sectors

Clara Melot, Zoological Society of London



We're ZSL (Zoological Society of London), an international conservation charity, and our vision is a world where wildlife thrives.

- Two Zoos (London and Whipsnade)
- Scientific research
- Field conservation projects
- Our conservation and policy teams in London and around London
 - Illegal Wildlife Trade
 - Business and Biodiversity

JP Morgan economists warn of 'catastrophic' climate change

By Tom Espiner
Business reporter, BBC News

🕒 21 February 2020 📄

Climate change



©BBC news

fastFT Climate change

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Carney warns of climate change hit to corporate assets

Outgoing Bank of England governor says companies and investors need to step up planning



©The FT

Environment

'Worst case scenario': Polar ice caps and Greenland ice sheet melting six times faster than in 1990s

'Irrefutable evidence' based on surveys and satellite missions shows we are currently on course to see 'devastating' sea level rise, scientists say

Harry Cockburn | 3 days ago | 21 comments





EU Taxonomy



FINANCING A SUSTAINABLE
EUROPEAN ECONOMY

The cover of the Technical Report, featuring a satellite-style image of Europe with the twelve gold stars of the European Union flag arranged in a semi-circle over the continent. The text "FINANCING A SUSTAINABLE EUROPEAN ECONOMY" is at the top left, and "TECHNICAL REPORT" is at the bottom in large white letters.

TECHNICAL REPORT

- Agriculture & Forestry covered.

Activities

[Growing of perennial crops](#)

[Growing of non-perennial crops](#)

[Livestock production](#)

[Afforestation](#)

[Rehabilitation, Restoration](#)

[Reforestation](#)

[Existing forest management](#)

Climate and forests?

- Just four commodities are estimated to be responsible for over a third of tropical deforestation each year:
 - palm oil;
 - timber and pulp;
 - cattle;
 - and soy.
- Land conversion for palm oil is often associated with high emissions from peatlands.
- Widespread use of fire for land clearing – the emissions from Indonesia’s 2015 haze crisis alone were at times greater than those of the entire US economy.
- About 26% of forest disturbance is attributed to Forestry operations.

Amazon deforestation looks set to hit a record high in 2020



ENVIRONMENT 13 March 2020

By Adam Vaughan



©The New Scientist

As Temperatures Increase, Forests Having More Trouble Soaking up

On Earth, one of the most important factors in the carbon cycle. This refers to the process by which carbon compounds are sequestered by biological and geological processes and released through organic processes (decay and respiration). The carbon cycle has kept temperatures relatively stable over the last 100 years, allowing life to flourish.

For the past few centuries, human activities have led to a point that some refer to as the current geological epoch, the Anthropocene. According to a new study by researchers, human activity is also leading to a decline in rainforests (a major sequester of carbon) and their ability to soak up carbon but could become a major problem in the coming years.

The study that describes these findings, published in the journal *Nature*. This research was conducted by scientists from the Royal Museum for Central Africa.

©Un

Forests Need Protection From EU Unsustainable Finance



Emanuela Barbiroglio Contributor

Green Tech

I write about sustainability and EU's environmental policies



Environment

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Climate years, s

Study claims rain

| SCIENCE |

Deforestation is leading to more infectious diseases in humans

As more and more forest is cleared around the world, scientists fear that the next deadly pandemic could emerge from what lives within them.

6 MINUTE READ

BY KATARINA ZIMMER



PUBLISHED NOVEMBER 22, 2019

In 1997, clouds of smoke hung over the rainforests of Indonesia as an area roughly the size of Pennsylvania was burned to make way for agriculture, the fires exacerbated by drought. Smothered in haze, the trees couldn't produce fruit, leaving resident fruit bats with no other option than to fly elsewhere in search of food, carrying with them a deadly disease.

California lawmakers introduce legislation to fight tropical deforestation

by Ashoka Mukpo on 24 February 2020



©Eco- business



France adopts strategy to stop 'deforestation imports' by 2030

Accused of being complicit in not only deforestation but also human right abuses in plantations, the European Union, of which France is a member, is keen to combat unsustainable imports, known as a key driver to deforestation.



- *California's AB 2002 bill would require any contractors supplying the state to comply with strict rules against tropical deforestation.*
- *It would apply to a wide range of products, including palm oil, beef, soybeans, and timber.*
- *A similar bill stalled and died last year, but its sponsors are optimistic that this time around it will fare better.*

Lawmakers in California have [introduced an ambitious bill](#) that would force all contractors supplying products to the state to comply with strict rules against tropical

Do you have exposure?

Palm oil

Timber

Wood Pulp

Natural Rubber

?

Do you have exposure?

Palm oil

(producers & traders)

- Biofuels
- Refineries/Chemical
- Cosmetic industry
- Household products
- Food industry (FMGC)
- Retailers

Timber

(producers & traders)

- Biomass
- Construction
- Railways
- Furniture/decoration
- Flooring
- Musical instruments

Wood Pulp

(producers & traders)

- Paper companies
- Packaging companies
- Paper and packaging buying companies
- Fashion (cellulose)
- Food industry (additive)

Natural Rubber

(producers & traders)

- Tiremakers
- Car manufacturers
- Aviation
- Health equipment
- Condom manufacturers
- Mattress/bedding manufacturers
- Fashion and sportswear



Introducing SPOTT

Tracking transparency, supporting sustainability

SPOTT.org @ZSLSPOTT

What is SPOTT?

- SPOTT is a free online platform dedicated to supporting transparency amongst upstream commodity producers
- SPOTT assesses (>200) the world's largest producers and traders of palm oil, timber & pulp and rubber
- Companies are assessed on the public disclosure of their policies, operations and commitments – 100+ indicators across 10 ESG categories
- Used by financial institutions and supply chain companies to inform investment & purchasing decisions



SPOTT

Tracking transparency, supporting sustainability

How does SPOTT assess companies?

- Process relies on regular, constructive engagement between the SPOTT team and assessed companies
- Opportunity for companies to understand industry expectations, respond to ZSL, and potentially improve disclosures ahead of the final review and publication on SPOTT
- Supporters increase the incentive for companies to meet industry expectations and improve their transparency





- » Natural rubber
- » Assessment scores explained

SPOTT supports the financial sector and supply chain stakeholders to manage **ESG** risk through transparency assessments of soft commodity producers and traders.

Palm oil: a business case for sustainability

New report from ZSL and Aviva Investors examines the business case for producing, sourcing and financing sustainable palm oil.

[Read more →](#)

ESG transparency assessments ▼ 9.9% ▼ 6.2% | SIFCA Group: 13.6% – | Austindo Nusantara Jaya Tbk PT: 66.6% ▲ 3.9% | Eldorado Brasil Celulose SA: 51.3%

Commodities assessed:



Palm oil



Timber and pulp



Natural rubber

SPOTT supports the finance sector and supply chain stakeholders to manage environmental, social and governance (ESG) risks by publishing transparency assessments of soft commodity producers and traders. By tracking transparency, SPOTT incentivises the implementation of corporate best practice.

Investors and buyers can use SPOTT to help meet their own commitments, and engage with companies to promote sustainable commodity production through responsible investment and sourcing.



Natural rubber: ESG policy transparency assessments

Latest update: November 2019 | Next scheduled: November 2020

[Download data \(CSV\)](#) | [View summary \(PDF\)](#)

SPOTT assesses multiple natural rubber producers and processors on the public disclosure of their policies... [Show more ▾](#)


Add filter(s)


Disclosure types: Organisation Policy Practice ?






















Show overview ▾

Company ▾	Rank ▾	Score ▾	Change ? ▾	Disclosure ? ▾	Supply chain segments ▾	Headquarters ▾	Landbank ▾	Market cap ▾
Sampoerna Agro	1	72% <div style="width: 72%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 72%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer	Indonesia	100.0 KHa	\$298.6M
Halcyon Agri	2	69.6% <div style="width: 69.6%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 69.6%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor, trader	Singapore	111.6 KHa	\$501.7M
Socfin	3	67% <div style="width: 67%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 67%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Luxembourg	387.9 KHa	\$404.0M
Siat Group	4	57.2% <div style="width: 57.2%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 57.2%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Belgium	222.2 KHa	<i>Private co.</i>
Royal Lestari Utama	5	50% <div style="width: 50%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 50%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Indonesia	88.8 KHa	<i>Private co.</i>
Bridgestone	6	47.1% <div style="width: 47.1%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 47.1%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor, trader	Japan	48.2 KHa	\$33,065.6M
Vietnam Rubber Group (VRG)	7	42.7% <div style="width: 42.7%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 42.7%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor, trader	Vietnam	408.0 KHa	\$2,140.5M
Société Internationale de Pla...	8	38.7% <div style="width: 38.7%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 38.7%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor, trader	France	60.4 KHa	\$473.1M
Bakrie Sumatera	9	28.2% <div style="width: 28.2%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 28.2%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Indonesia	19.8 KHa	\$16.1M
Kirana Megatara	10	21.5% <div style="width: 21.5%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 21.5%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Indonesia	2.9 KHa	\$183.0M
Indofood Agri	11	13.1% <div style="width: 13.1%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 13.1%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Singapore	16.9 KHa	\$331.9M
HAGL Group	12	12.1% <div style="width: 12.1%; height: 10px; background-color: #43a047; margin-bottom: 2px;"></div> <div style="width: 100%; height: 10px; background-color: #ccc; margin-bottom: 2px;"></div> <div style="width: 12.1%; height: 10px; background-color: #43a047;"></div>	n/a	<div style="width: 100%; height: 100%; background-color: #43a047;"></div>	Producer, processor	Vietnam	44.5 KHa	<i>Private co.</i>

Expand all categories

Score by disclosure type: Show score breakdown 

Total:	67 / 93	72%
		

 > Sustainability policy and leadership 	6.5 / 9	72.2%
 > Landbank, maps and traceability 	7 / 7	100%
 > Deforestation and biodiversity 	8.25 / 9	91.7%
 > HCV, HCS and impact assessments 	5.5 / 6	91.7%
Show score breakdown 		
 32. Commitment to conduct High Conservation Value (HCV) assessments?	✓ 1 / 1	Source
 33. High Conservation Value (HCV) assessments available?	✓ 1 / 1	Source
 34. High Conservation Value (HCV) management and monitoring plans available?	✓ 1 / 1	Source
 35. Commitment to the High Carbon Stock (HCS) approach? The company commits to conduct carbon stock assessments but does not explicitly mention the HCS Approach	P 0.5 / 1	Source
 36. Commitment to conduct social and environmental impact assessments (SEIAs)?	✓ 1 / 1	Source
 37. Social and environmental impact assessment (SEIAs) undertaken, and associated management and monitoring plans?	✓ 1 / 1	Source
 > Soils, fire and GHG emissions 	7.75 / 13	59.6%
 > Water, chemical and pest management 	5.5 / 12	45.8%
 > Community, land and labour rights 	21.25 / 27	78.7%



October 2019
Average score: 35.2% (n=99)

July 2019
Average score: 20.4% (n=97)

November 2019
Average score: 36.0% (n=15)

Category	October 2019	July 2019	November 2019
Sustainability policy and leadership	42.8%	21.6%	47.3%
Landbank, maps and traceability	33.7%	25.2%	50.3%
Deforestation and biodiversity	29.9%	24.5%	33.6%
HCV, HCS and impact assessment	35.6%	20.0%	31.9%
Peat, fire and GHG emissions	34.4%	15.0%	23.0%
Water, chemical and pest management	27.0%	13.8%	22.7%
Community, land and labour rights	36.5%	26.3%	46.1%
Certification standards	37.5%	12.6%	26.3%
Smallholders and suppliers	23.7%	17.4%	22.7%
Governance and grievances	37.7%	17.0%	47.3%



All assessments
2019

77/195 (39.4%)

companies have a clear
commitment to zero
deforestation or zero
conversion of natural
forests

PO & NR
assessments 2019

61/98 (62.2%)

companies have a clear
and comprehensive
commitment to zero
burning

PO
assessments 2019

63/71

can trace 0% of their
raw materials from
their supplier mills to
the plantation of
origin

PO
assessments 2019

4/99 (4.04%)

companies report strong
evidence of monitoring
deforestation...a further
28/99 report
at least some.





T&P
assessments 2019
6/97 (6.18%)
companies have
carried out a climate
risk assessment

T&P
assessments 2019
40/97 (41%)
companies have a
clear commitment to
biodiversity
conservation



NR
assessments 2019

9/14 (64.2%)

companies support
smallholders

Call to action



- Look into your direct and indirect exposure (see our scorecards and individual company assessments on www.SPOTT.org)
- Benchmark your own policies against other FIs on www.SCRIPT.finance
- Join engagements – PRI has palm oil and deforestation working groups and collective engagements
- Engage companies directly or send them our way
- Get “in touch”!

Join our Supporter Network

“ *We support SPOTT’s call for increased transparency in commodity sectors to promote sustainable production and trade* ”

www.spott.org/supporter-network/

ZSL
LET'S WORK
FOR WILDLIFE



Developed by the Zoological Society of London (ZSL), SPOTT is a free, online platform supporting sustainable commodity production and trade. By tracking transparency, SPOTT incentivises the implementation of corporate best practice.

SPOTT assesses commodity producers and traders on the public disclosure of policies, operations and commitments related to environmental, social and governance (ESG) issues. Investors, buyers and other key influencers can use SPOTT assessments to inform stakeholder engagement, manage ESG risk, and increase transparency across multiple industries.

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SPOTT.org

[@ZSLSPOTT](https://twitter.com/ZSLSPOTT)