

Climate-agrifood nexus



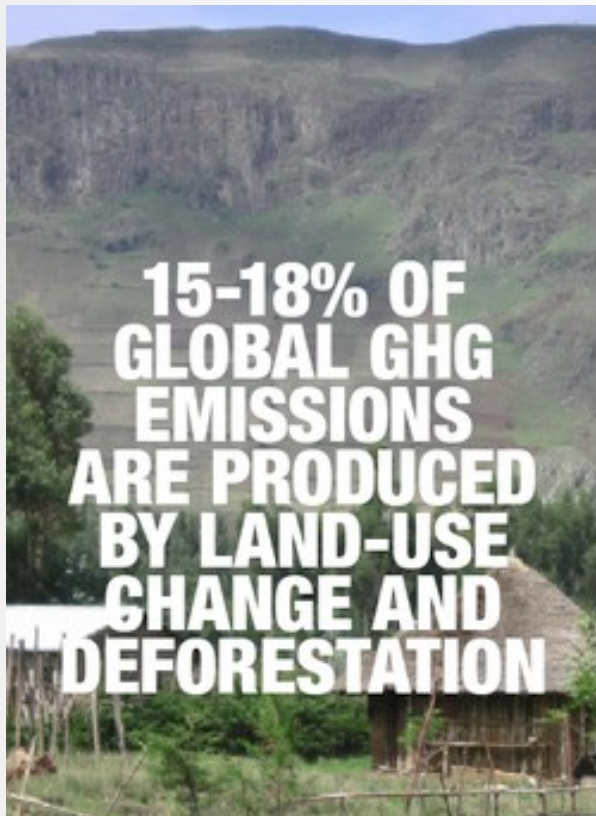
Food is key driver of climate change

The global food system accounts for around half of greenhouse gas emissions. (GRAIN 2011)

Food and climate change: the forgotten link

GRAIN 2011

Looking at the whole web

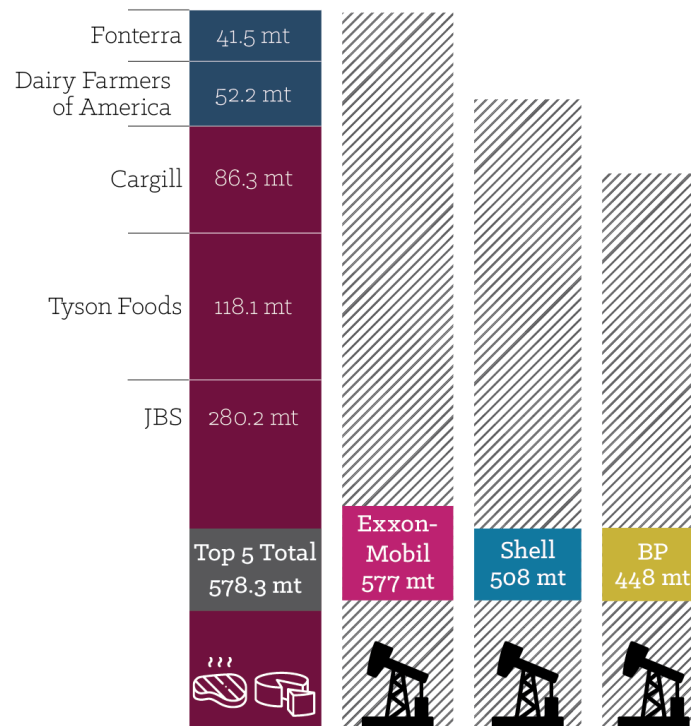


Food and climate change: the forgotten link

GRAIN 2011

Meat and dairy emissions

FIGURE 4: The top 5 meat and dairy companies combined emit more greenhouse gases than ExxonMobil, Shell or BP

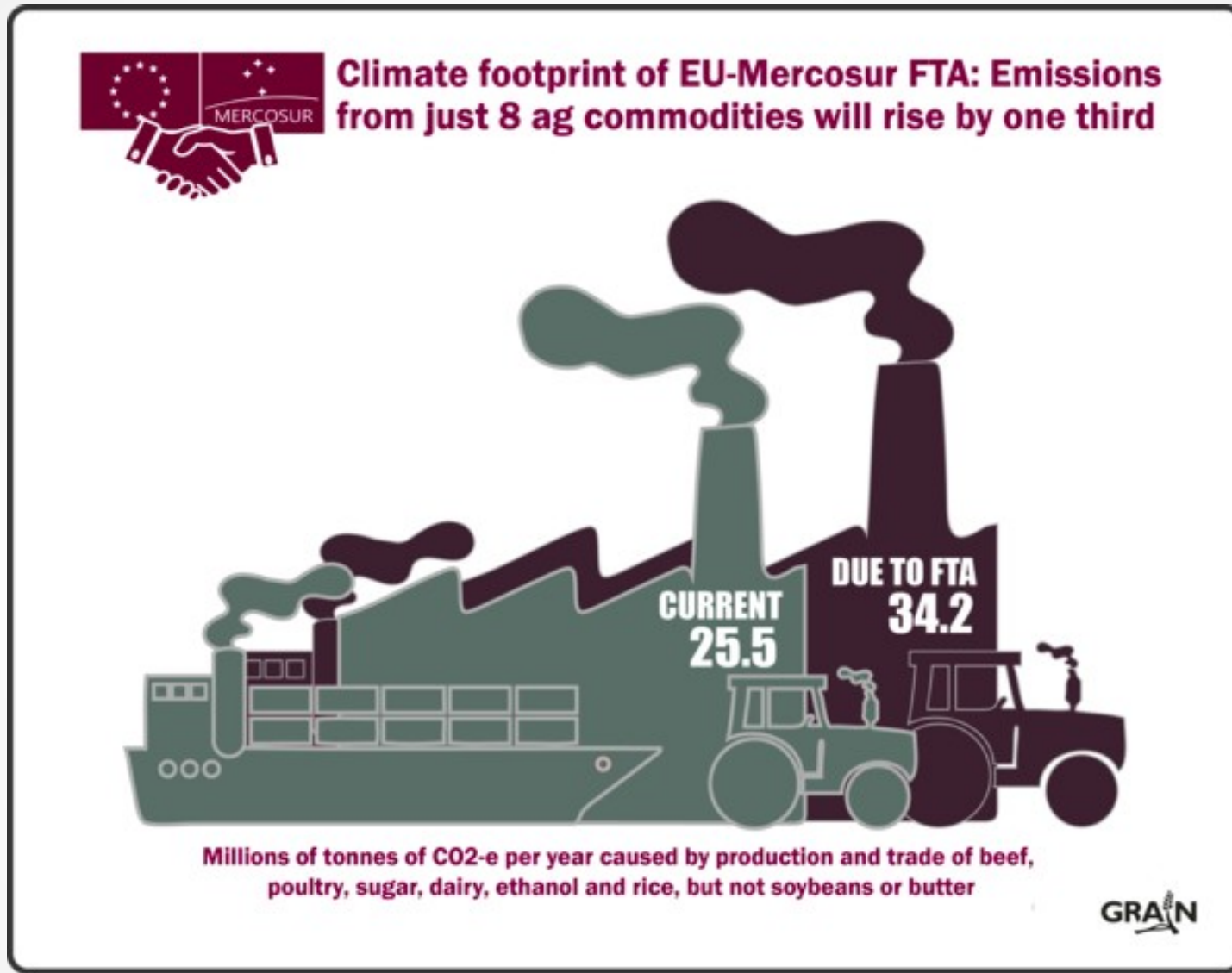


Sources: GRAIN & IATP. See Appendix, Methodology Note, section B; Griffin, Dr. Paul, "The Carbon Majors Database: CDP Carbon Majors Report 2017," Climate Accountability Institute, 2017, <http://bit.ly/carbon-majors-report>.

Emissions Impossible: How big meat and dairy are heating up the planet

GRAIN and IATP 2018

Ag trade carbon footprint



EU-Mercosur trade deal will intensify the climate crisis from agriculture

GRAIN 2019

Fertiliser footprint

...the production and use of synthetic N fertiliser accounts for 2.4% of global emissions, making it one of the top climate polluting industrial chemicals.

New research shows 50 year binge on chemical fertilisers must end to address the climate crisis

GRAIN, Greenpeace and IATP 2021

“Experts” catching up...

In 2007, the International Panel on Climate Change said that *agriculture* contributes **10-12%** of overall annual greenhouse gas emissions while today it says that *food systems* cause up to **37%**.

(31%) of human-caused climate emissions originate from the world's *agri-food systems*, farm to fork. The total emissions from the food system increased almost one-fifth since 1990.

FAO 2021

...climate change is already affecting “all dimensions of food security”: availability, access, utilisation (food quality and safety) and stability. As a result, there is high confidence that the number of people at risk of “hunger, malnutrition and diet-related mortality” will increase in the future.

Food is key driver of SOLUTION TO climate change

“ “
The CO₂ that we have sent into the atmosphere by depleting the world's soils can be put back into the soil. All that is required is a change of agricultural practices.
“ “

Food and climate change: the forgotten link
GRAIN 2011

5 ways to cool the planet

Food Sovereignty: five steps to cool the planet and feed its people:

Nourish the soil.

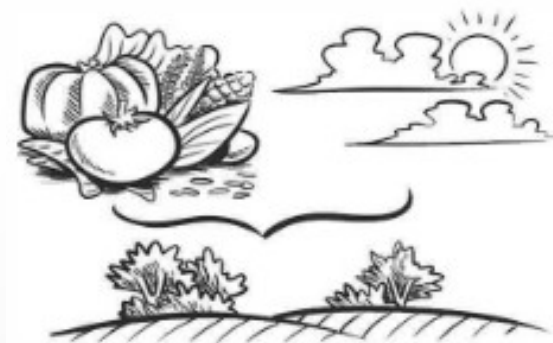
Abandon the use of agrochemicals and promote agroecology.

Reduce the kilometres traveled by our food and promote local production.

Return the land to peasant women and men

Reject false solutions.

This is how peasants cool the planet.



Together we can cool the planet!

GRAIN and LVC 2016

This is how Big Ag (doesn't) cool the planet: greenwashing fraud

Corporate greenwashing: "net zero" and "nature-based solutions" are a deadly fraud

GRAIN 2021

Agribusiness and big finance's dirty alliance is anything but "green"

GRAIN 2021

The global farmland grab goes green

GRAIN 2021



Image by Zeph Fishlyn from *Hoodwinked in the Hothouse: Resist false solutions to climate change.*

(2021 - Third Edition) by collaboration of organisations and movements

Soil is the answer?

The world's top fertiliser company, Yara, recently created an alliance to pursue "a new solution to our carbon challenge that's grounded in the soil".

"Soil health is a win-win," says Cargill.

Over the past couple of years, nearly all of the biggest corporate players in agribusiness have launched or joined initiatives to restore carbon in agricultural soils

From land grab to soil grab - the new business of carbon farming

GRAIN 2022

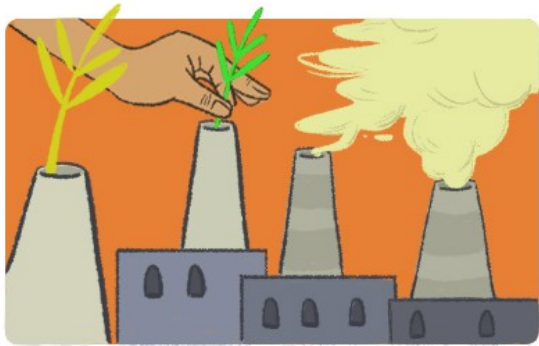
Cut carbon, cut corporations

There's no way around it. If we want to lower the climate emissions from the global food system, we need to cut the corporations out of the picture and turn to local markets, food sovereignty and agroecology instead.

FAO says food responsible for 31% of all greenhouse gas emissions, but that's not the whole story

GRAIN 2021

Expanding our analysis: the nexus



All crises, THE crisis (the industrial agri-food system is central to all of them)
GRAIN 2019



The inseparable trio: land grabbing, deforestation, and climate crisis
GRAIN 2022

