

LDC – Intro to carbon pricing and trends

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IULE ARRUDA Regional Head Carbon Solutions Platform – LATAM iule.arruda@ldc.com YOUR TRUSTED PARTNER SINCE







LDC and Carbon Solutions Platform overview



Carbon Markets intro



LDC Sustainability and Carbon Commitments



General market trends



Palm Oil Footprint and opportunities

Established in 1851

10

platforms

≈17,000

LDC.

employees

Originating, processing and transporting ≈80 million

tons of commodities annually on average Capital Expenditure of US\$549 million*

US\$1,006 million*

Net Income, Group Share

US\$59.9 billion*

Net Sales

Active in

100 +

countries



Our Platforms



Carbon Solutions

Driving LDC's decarbonization efforts toward more sustainable global operations and value chains.

Coffee

Major Arabica and Robusta varieties, specialty coffee and roasted coffee.

Cotton

Upland saw ginned cotton, pima and extra-long staple, sourced from all major producers.



Juice

and specialty by-products from fruit processing (citrus oils and aromas, dry peel, citrus pulp pellets).

Food & Feed Solutions

Lecithin, glycerin, edible oil and specialty feed proteins.

Freight

Global ocean transportation solutions to support LDC's global activities, as well as for third parties, thanks to an extensive network and involvement in major trade flows.

Sugar

Beet sugar, cane raw sugar, crystal sugar, refined sugar and ethanol.

Global Markets

Foreign exchange interest rate risk management for LDC's activities worldwide.

Grains & Oilseeds

Soybeans, canola, rapeseed, cottonseed, sunflower seeds, peanut, palm meals and oils (crude & refined, bulk & bottled), lecithin, glycerin (crude & refined), biodiesel, wheat, white & vellow corn, dried distillers' grains, sorghum, barley, rye, oats, chickpeas, ethanol, fertilizers, inputs and seeds.

Orange, lime, lemon and apple juices,

Rice

Paddy, brown, milled and parboiled and premium rice (bulk and packaged).

Carbon Solutions Platform

Who are we and where we are?





Carbon Solutions Platform

What do we do?





Decarbonization Develop and implement LDC's decarbonization roadmap, in collaboration with all platforms and functions



Carbon Knowledge Center Be an internal focal point for all climate-related topics, and support communication of targets and results to stakeholders



Carbon Markets Trade in compliance and voluntary carbon markets, and build a portfolio of high-quality carbon credits



Carbon Investments Pursue climate-focused joint ventures, mergers & acquisitions







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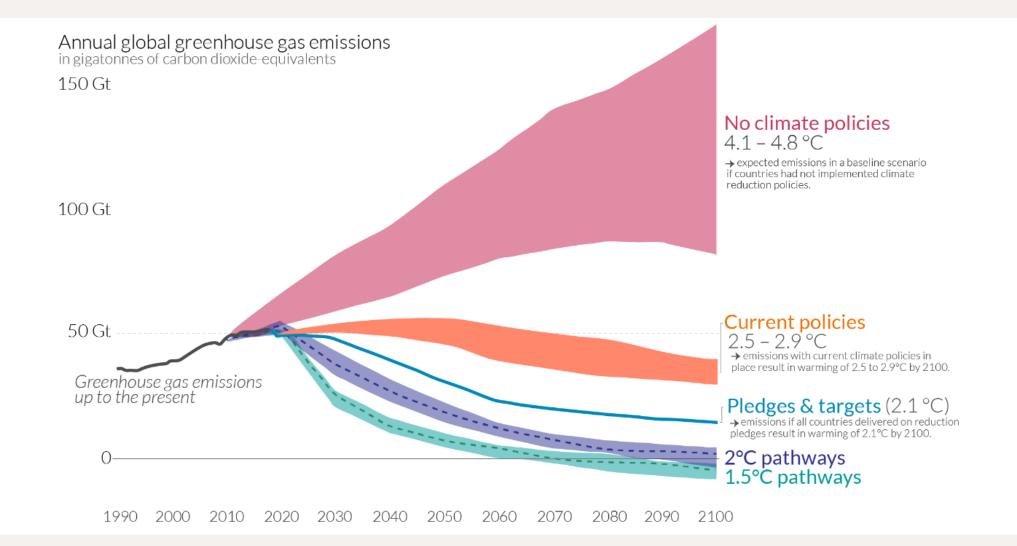


Palm Oil Footprint and opportunities

Global greenhouse gas emissions

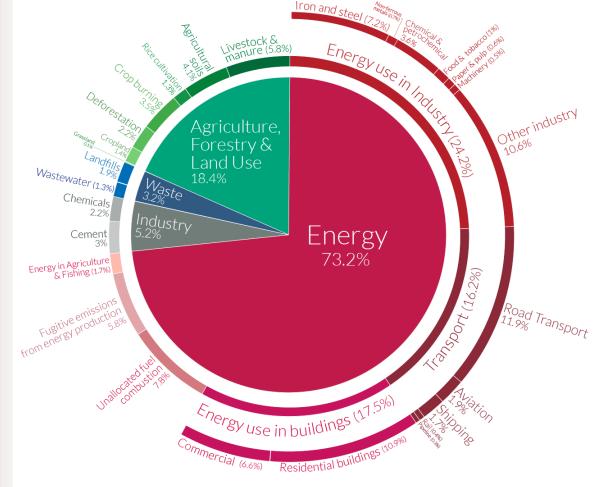


How much can it get worse?





Global greenhouse gas emissions by sector



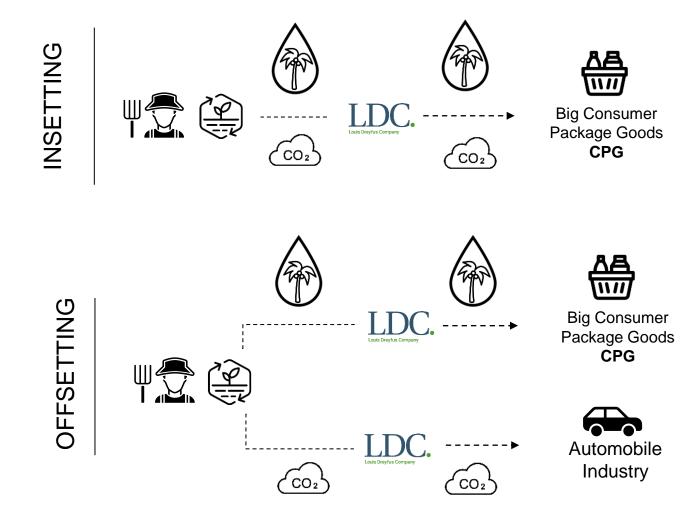
OurWorldinData.org - Research and data to make progress against the world's largest problems. Source: Climate Watch, the World Resources Institute (2020). Licensed under CC-BY by the author Hannah Ritchie (2020)

Agriculture is part of the problem and part of the solution. We must act now!

Insetting vs Offsetting

Ways to reduce the carbon footprint





Emission reductions are generated **Within (in)** a company's value chain and **can** be accounted for **through the value chain** (ALL MEMBERS IN THE CHAIN)

Emission reductions are generated **OUTSIDE (Off)** the company's value chain that compensates the emissions and **cannot be double-accounted for**

What are carbon markets?

One type of carbon pricing









Today

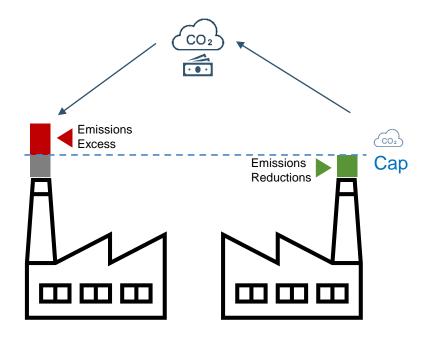
Carbon pricing instruments help channel economic activities toward a low-carbon future.

Carbon markets could be seen as "**bridges**" to help the world on its path to decarbonization by providing market mechanisms for mitigation to be achieved at a lowest possible cost. Limit global warming to 1.5C Net Zero Emissions by 2050

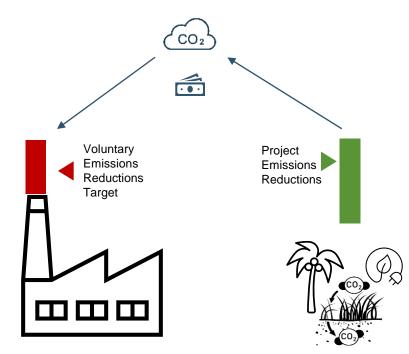
Types of carbon markets

The production, buying and selling of Carbon Credits that represents one ton of **CO2eq**

Compliance Carbon Market



Voluntary Carbon Market





Key principles for high-integrity carbon emissions

To issue carbon credits projects must comply with standards and requirements



Activity not taking place in absence of carbon certification and related revenues.

eakage



Emission reductions must not be shifted to a different location (unavoidable leakage should be deducted). The emission reductions or removals shall be permanent, or if they have a risk of reversal, any reversals shall be fully compensated during the crediting period.

Permanence



The GHG emission reductions or removals shall not be double-counted, i.e., they shall only be counted once towards achieving targets*.

nique

* it is a big difference with insetting where the emissions reductions can be counted through the value chain.







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Press release: Louis Dreyfus Company Reports 2022 Financial Results and Announces Scope 1 & 2 Emissions Reduction Target || Louis Dreyfus Company (Idc.com)

LDC commitment to decarbonization

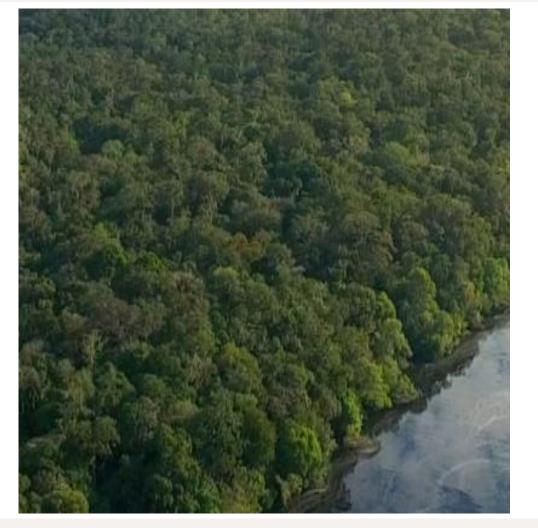
LDC Carbon Solutions Platform drives our decarbonization efforts in own operations and value chains

Scope 1 and 2 measured, determined a baseline with base year 2022, reported and published in sustainability report.

Scope 3 reduction target to be formalized by mid-2024

LDC made strong commitment Zero deforestation is critical for decarbonization





LDC Commits to Zero Deforestation & Native Vegetation Conversation from 2020 in Its Supply Chain by End 2025

LDC Carbon Solutions - LATAM

The Carbon Platform aims to continue the decarbonization journey, support platforms, build a high quality & diversified portfolio (carbon removals and regenerative agriculture) and trade carbon credits. We have launched several initiatives to decarbonize our supply chain and our customers' supply chain



Scope 1&2 reduction

33.6% reduction in Scope 1&2 between 2022 and 2030

Scope 1 and 2 measured, determined a baseline with base year 2022, reported and published in sustainability report.



Costumer centricity

We engage with our upstream suppliers to adopt good agricultural practices, improve their soil health, carbon stocks, biodiversity to value them by bringing this value added to the downstream clients



Major initiatives

Industry leading Non-Deforestation – Non-Conversion commitment

Several Regenerative Agriculture pilots launched



Traceability

Traceability and access to data will be key to substantiate auditable environmental claims



Emission factors

We have launched specific emissions factors studies for our main commodities to reflect accurately the carbon footprint across our supply chain



Carbon Development and Trading

Trading (buying and selling) high quality carbon credits from a number of projects supporting local Nature Based Solutions carbon projects development







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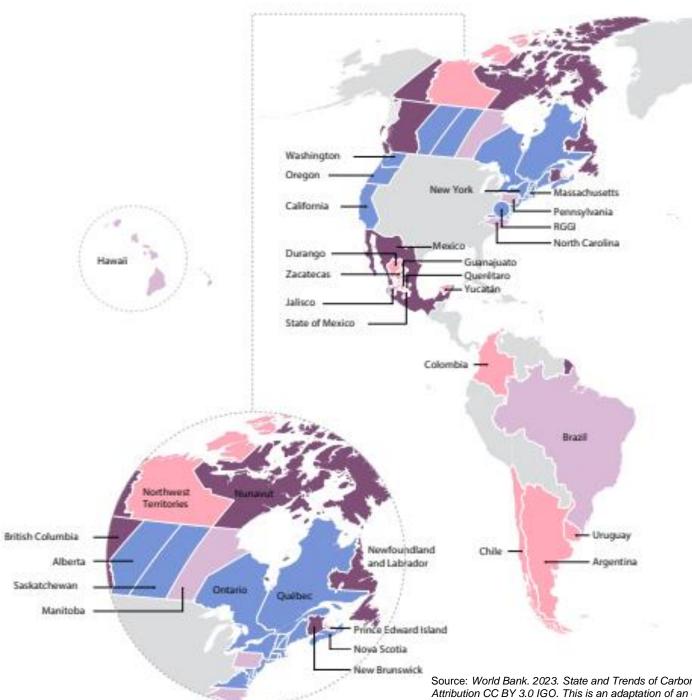
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MAP OF CARBON TAXES AND ETSs IN AMERICAS



Implemented or Scheduled

ETS Implemented or Scheduled for Implementation



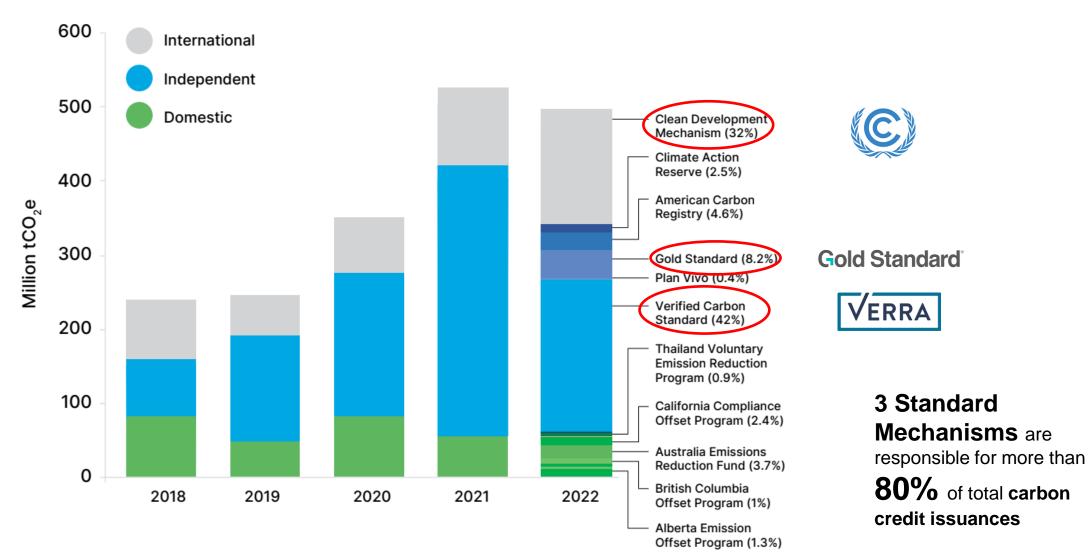
Carbon Tax Implemented or Scheduled for Implementation

ETS or Carbon Tax **Under Consideration**

Source: World Bank. 2023. State and Trends of Carbon Pricing 2023. Washington, DC: World Bank. doi: 10.1596/978-1-4648-2006-9. License: Creative Commons 19 Attribution CC BY 3.0 IGO. This is an adaptation of an original work by the World Bank. Views and opinions expressed in the adaptation are the sole responsibility of the author or authors of the adaptation and are not endorsed by the World Bank

State and Trends of Carbon Pricing

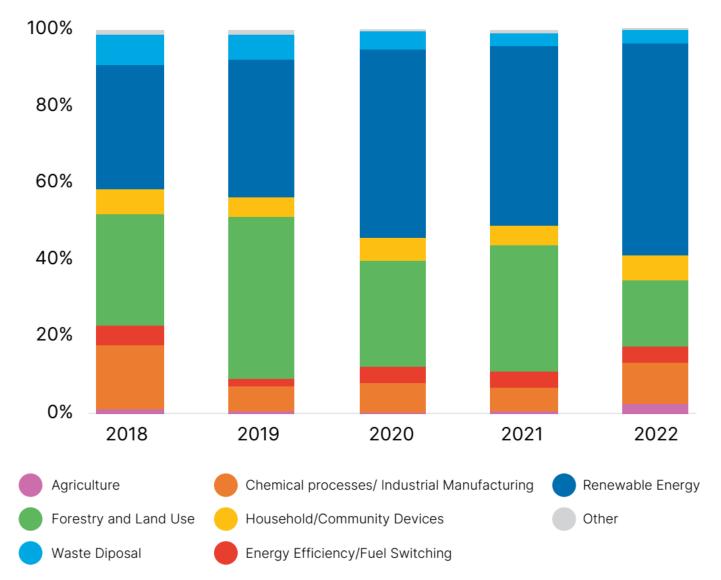
GLOBAL VOLUME OF ISSUANCES BY CREDITING MECHANISM TYPE (2018–2022)



Source: World Bank. 2023. State and Trends of Carbon Pricing 2023. Washington, DC: World Bank. doi: 10.1596/978-1-4648-2006-9. License: Creative Commons Attribution CC BY 3.0 IGO. This is an adaptation of an original work by the World ²⁰ Bank. Views and opinions expressed in the adaptation are the sole responsibility of the author or authors of the adaptation and are not endorsed by the World Bank

State and Trends of Carbon Pricing

PERCENTAGE OF TOTAL ISSUANCE BY PROJECT CATEGORY AND YEAR



Source: World Bank. 2023. State and Trends of Carbon Pricing 2023. Washington, DC: World Bank. doi: 10.1596/978-1-4648-2006-9. License: Creative Commons Attribution CC BY 3.0 IGO. This is an adaptation of an original work by the World ²¹ Bank. Views and opinions expressed in the adaptation are the sole responsibility of the author or authors of the adaptation and are not endorsed by the World Bank









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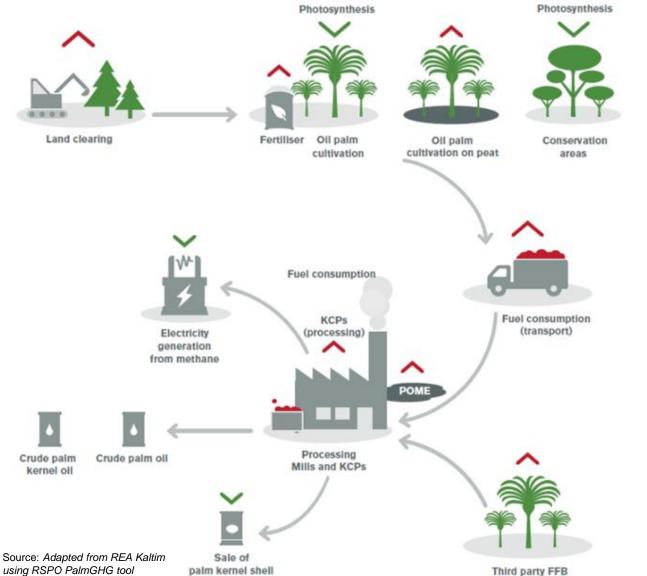


Palm Oil Footprint and opportunities

Palm oil carbon footprint



It is important not only produce with low emissions practices but implement processes and systems permitting traceability, providing customers auditable data



Importance of low carbon palm

- Maintain access to capital from financiers under more and more scrutiny
- Maintain access to markets with upcoming carbon-related constraints
- Retain customers with growing environmental expectations
- ✓ Gain market shares in new, environmentally-driven markets
- Prepare for mandatory reporting & maintain license to operate



Working together with Monitoring, Reporting and Verification providers in collaboration with Palm Oil suppliers to decarbonize the palm oil value chain and/or engage in carbon markets



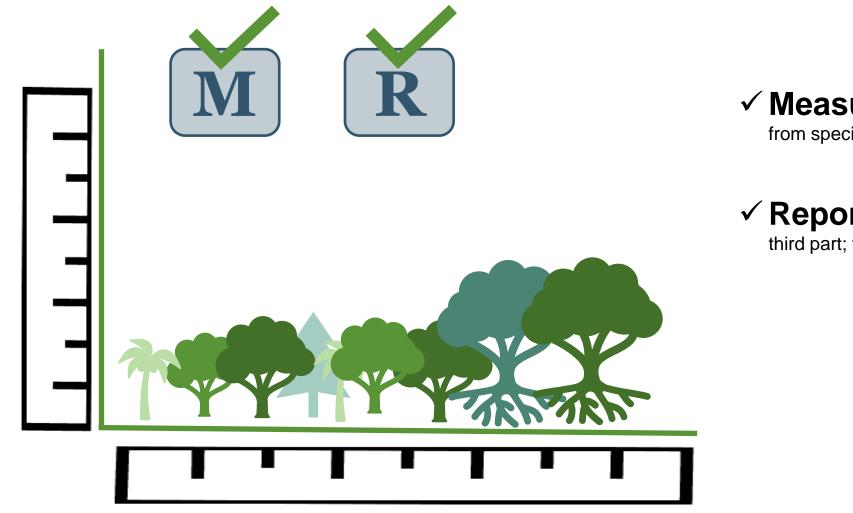


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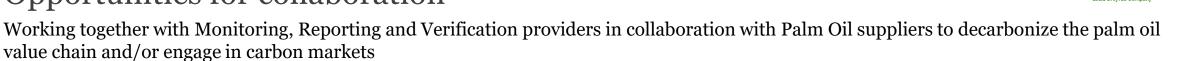


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✓ **Measure:** the emissions and removals from specific activity over a period of time;

✓ Report: these finds to an accreditor third part; that,



- ✓ **Measure:** the emissions and removals from specific activity over a period of time;
- ✓ Report: these finds to an accreditor third part; that,
- ✓ **Verifies:** the report so the results can be certified and emissions reductions can be issued and credibly accounted.



Thank you!



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