

Carbon standards and sustainable agriculture

Addressing the risk of fragmentation

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Food systems exert important pressures on the environment

Land use

50%

of all ice- and desert-free land is used for agriculture

Deforestation

73%

of tropical and sub-tropical deforestation (2000-10)

Biodiversity loss

80%

of threatened land species are in danger due to habitat loss driven by agriculture

Water use

70%

of global freshwater use

Water pollution

78%

of global eutrophication

Climate change

34%

of man-made GHG emissions



Proliferation of carbon footprint initiatives

Measurement

- Product level GHG accounting standards and guidelines (e.g., LCA)
 - ISO
 - GHG Protocol
 - FAO LEAP
 - International Dairy Federation guidance
- Firm level GHG accounting standards and guidelines
 - GHG Protocol Agricultural guidance
 - US dairy guidance
- GHG calculation tools
 - The Cool Farm Tool
 - Farm ES (US dairy)
 - COMET Farm (USDA)

Communication

- Product level carbon footprint labels and claims
 - Eco score
 - Eco impact
 - Carbon trust
 - Carbon cloud
 - ...
- Firm level carbon disclosure (scope 1, 2 & 3 emissions)
 - Carbon Disclosure Project
 - ...



LABEL BAS CARBONE



Fast and full

The IDF global carbon Footprint standard for the dairy sector

coolfood

SCIENCE BASED TARGETS

GLOBAL ROUNDTABLE FOR SUSTAINABLE BEEF

COMET-Farm



DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

bioCODE E GAS PROTOCOL

Climate Action business govt.



THESIS BY THE SUSTAINABILITY CONSORTIUM

PNAS RESEARCH ARTICLE ENVIRONMENTAL SUSTAINABILITY SCIENCE



Estimating the environmental impacts of 57,000 food products

Origin Green IRELAND



HESTIA



EPD THE INTERNATIONAL EPD SYSTEM

COOL FARM ALLIANCE



PACT PARTNERSHIP FOR CARBON TRANSPARENCY

CDP

FAIRR A COLLIER INITIATIVE



DISCLOSURE INSIGHT ACTION

www.oecd.org/food-systems



Opportunities and challenges

- Opportunities: growing awareness and actions
 - Could help speed up the transition towards more sustainable agriculture
 - Challenges: risk of fragmentation
 - High transactions costs
 - Barrier to trade
 - Limited environmental benefit
- **Need for international cooperation**



OECD initiatives for cooperation

- **Global Forum on Agriculture: *Carbon footprint in food systems*** (25th April 2023)
 - 291 delegates and 20 experts (public and private)
 - Drivers
 - Standards, conformity assessment and communication
 - Trade implications
 - Role for the OECD
- **Food Chain Analysis Network: *Measuring and communicating environmental impacts of food products*** (22-23rd June 2023)
 - Stocktaking of countries' initiatives (public mainly)
 - Identify key issues and ways of addressing them
 - Focus first on carbon, then on other environmental impacts



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