

GREENHOUSE GAS EMISSIONS

from Agriculture, Forestry and Other Land Use





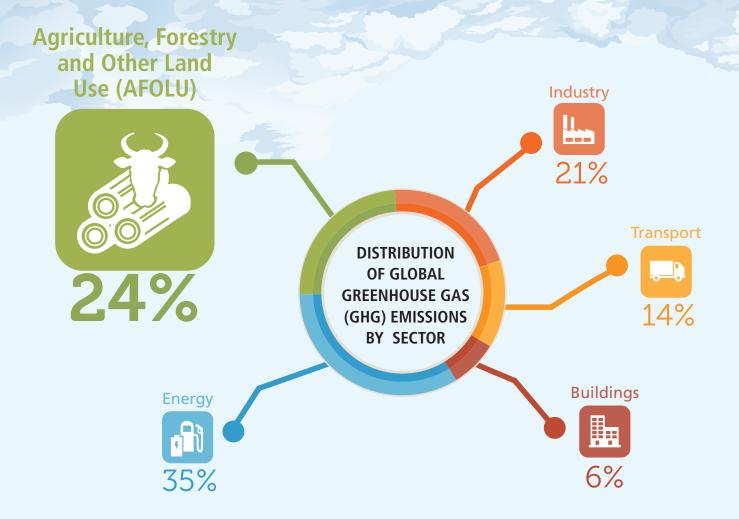
At the Paris climate conference (COP21) in December 2015, 195 countries adopted the first-ever universal global climate agreement that sets out a global action plan to limit global warming to well below 2°C. A key outcome was the Enhanced Transparency Framework (ETF) to build trust and confidence in countries' contributions and progress.

Food security and agriculture face major challenges under climate change, in terms of expected negative impacts on productivity as well as implementation of sectoral actions to limit global warming. Sustainable farming, livestock-raising, fisheries and forestry can help countries identify opportunities for reducing emissions while addressing their food security, resilience and rural development goals. Almost 90 percent of countries included these opportunities in their Intended Nationally Determined Contributions (INDCs).

FAO has developed tools, databases, guidance and learning material to enhance countries' capacity in designing, implementing and reporting actions compliant with the Paris Agreement.



Agriculture, forestry and other land use sector contributions to climate change



To avoid serious impacts of climate change, major reductions in greenhouse gas emissions are required.



GLOBALLY

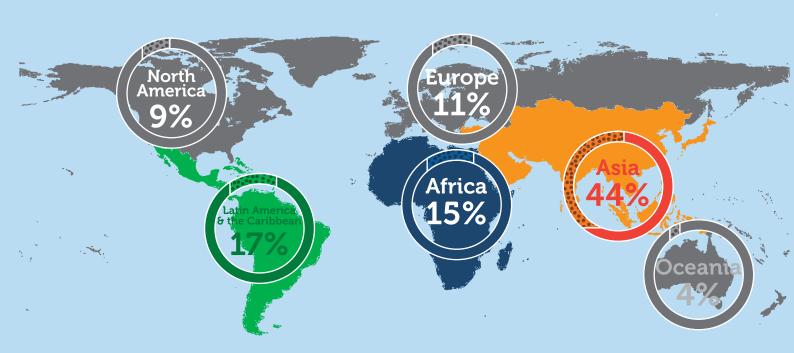
Emissions increased annually by

8%

2014

5 246

Emissions from agriculture by continent



Emissions from agriculture crops & livestock in the last 10 years in:

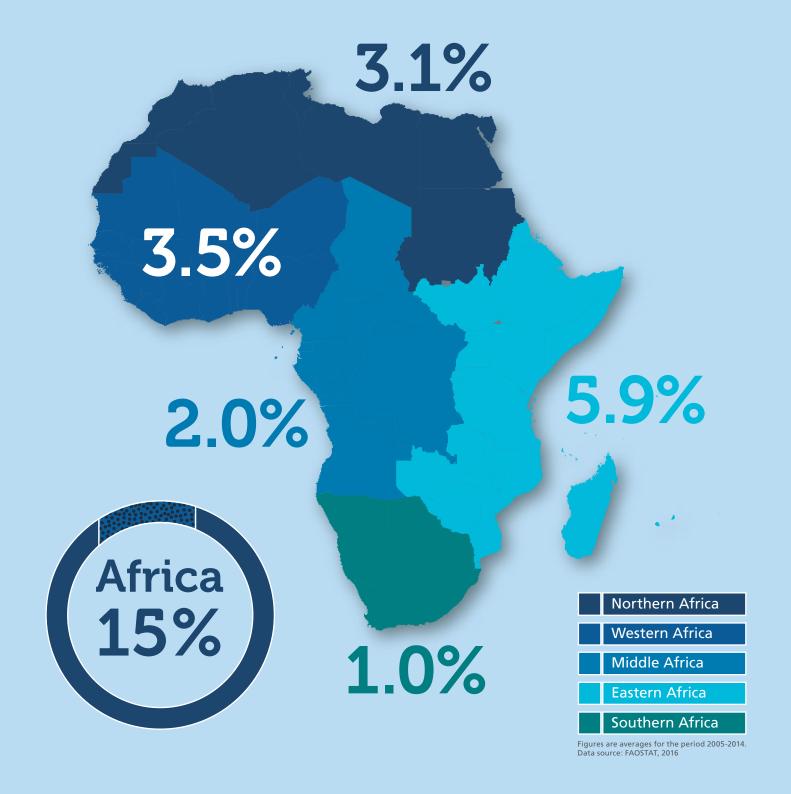


AFRICA

Emissions increased annually by

1.6%

2014 834



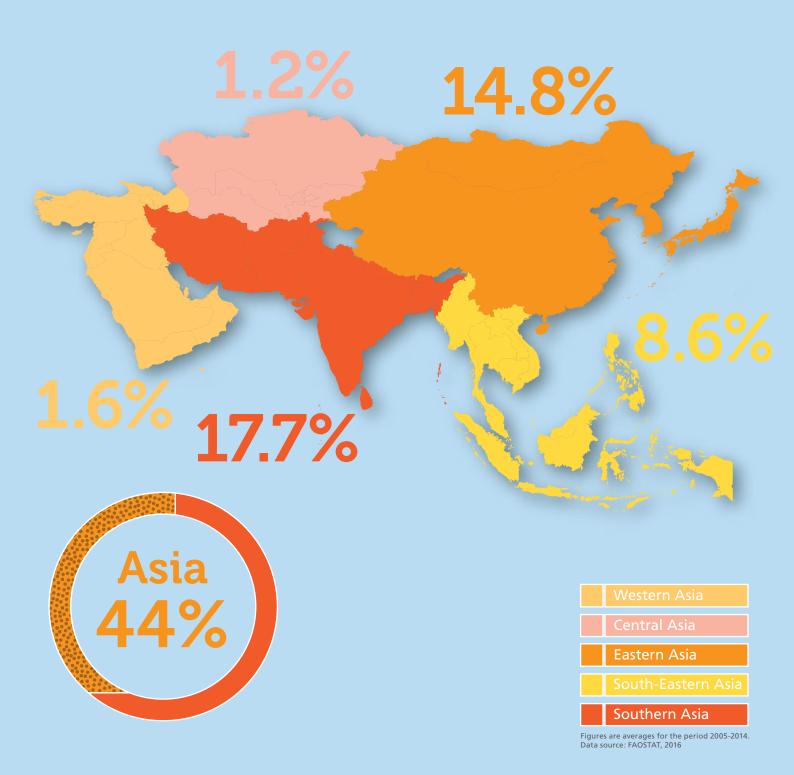
Emissions from agriculture crops & livestock in the last 10 years in:

ASIA

Emissions increased annually by

1.1%

2014
2 313





Latin America & the Caribbean

Emissions increased annually by

0.5%

²⁰¹⁴ 909



The largest emitters in agriculture

GLOBAL

40%

16%

12%

10%

7%

5%

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Enteric fermentation

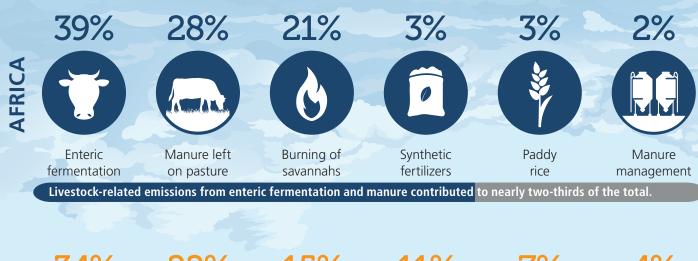
Manure left on pasture

Synthetic fertilizers

Paddy rice Manure management Burning of savannahs

Livestock-related emissions from enteric fermentation and manure contributed to nearly two-thirds of the total.

Figures are averages for the period 2005-2014





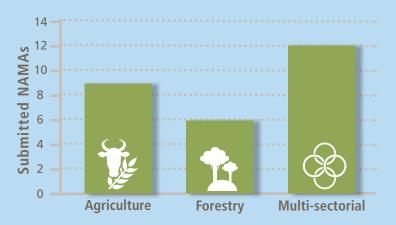


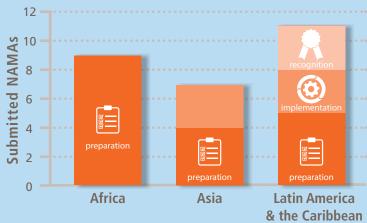
Nationally Appropriate Mitigation Action (NAMA) is the instrument to reduce GHG emissions

EIGHTEEN PERCENT OF NAMAS IN THE UNFCCC REGISTRY INCLUDE AFOLU SECTOR

CATEGORIES OF AFOLU NAMAS

STAGE OF NAMAS SEEKING SUPPORT





^{*} Multi-sectorial category includes NAMAs which targets AFOLU sector together with other sectors, such as energy. Data source: UNFCCC NAMA registry 2016. As of as of July 2016, 153 NAMA entries were entered in the NAMA registry.

FAO's support to countries



FAOSTAT Emissions database



NDCs NDCs

GHG Inventory

MRV



Economics and Policy Innovations for Climate-Smart Agriculture (EPIC)





Learning tool on NAMAs in the AFOLU sector

Capacity Building



Ex-Ante
Carbon-balance
Tool (EX-ACT)



AFOLU Emissions Analysis Tools











PARIS AGRE











