

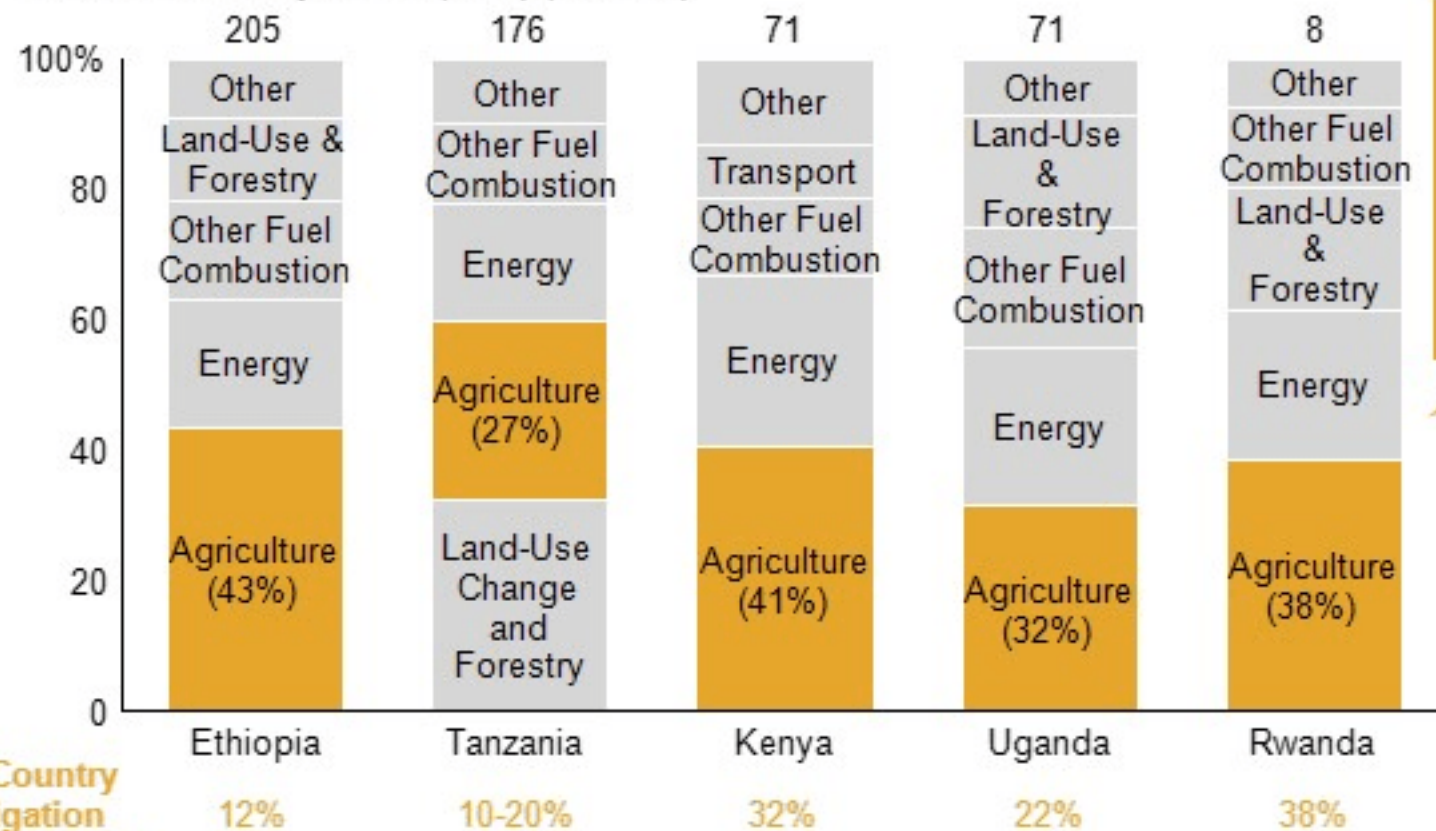
# Pathways to Dairy Net Zero

DNA is party to the dairy industry's global Net Zero commitment and our current focus is on reducing **emissions intensity**. [Learn more at: www.pathwaystodairynetzero.com](http://www.pathwaystodairynetzero.com)

## Dairy has a critical role to play reducing carbon emissions

Even if fossil fuel emissions were eliminated immediately, **emissions from the global food system alone** would make it impossible to limit warming to 1.5°C

GHG emissions by sector (2018) (MtCO<sub>2</sub>e)



Over 70% of Agriculture emissions in Africa are from **livestock and manure** on pasture

(1) Country mitigation commitment

Reducing dairy emissions is key to country mitigation plans

## DNA steps towards dairy net zero

- Reducing on-farm emission intensity by increasing **smallholder milk production**, at **lower emissions per liter**, to meet growing nutrition/food security needs

  - Reducing livestock **methane emissions** (91% of on-farm emissions) through improved productivity (e.g., feeding, breeding) and methane-inhibiting feed
  - Reducing **emissions from manure, water and soil management** (8% of emissions) by improving farming practices
  - Mitigating **emissions from feed** by improving grazing and land cultivation practices
- Increasing adoption of adapted farming practices to **improve climate resilience**, e.g., fodder crop technologies and conservation, animal husbandry technologies

Notes: (1) Country Nationally Determined Contribution (NDC) is unconditional committed reduction in total emissions vs. BAU by 2030, updated July 2021; Total emissions include land use and forestry (LUCF) except Kenya, where LUCF emissions of -7.62MtCO<sub>2</sub> were excluded due to data discrepancy between WRI CAIT and other sources showing continued deforestation

Source: Global food system emissions could preclude achieving climate change targets: Clark et al (2020). GHG emissions including LUCF (2018) were sourced from World Resources Institute Climate Analysis Indicators Tool (WRI CAIT) 2015 - 2018. Split of emissions by sector was cross-referenced with FAOSTAT 2015 - 2018.