## 56% 529 mio ha used for agriculture Total area: 942 mio ha

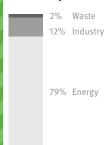


196 mio employed in agriculture Total labour force 775 million

# Main agricultural products



#### Total national emissions 12,872 MtCO,e (except LULUCF)





**Agricultural emissions** 790 MtCO e



**Burning Biomass** 

Crop residues

Manure left on pasture

Manure applied to soils 3%

21% Synthetic fertilisers

19% Rice cultivation

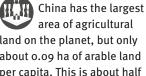
Manure management

23% Enteric fermentation

### China

#### People's Republic of China

#### Key facts: Agriculture in China



land on the planet, but only about 0.09 ha of arable land per capita. This is about half the global average of arable land per capita.





The latest available official information on GHG emissions from the agricultural sector is from 2014. Non-CO<sub>2</sub> emissions from enteric fermentation, manure management, rice cultivation, agricultural soils and field burning of residues amounted to 830 MtCOge.

#### Key areas with high mitigation potential

Three mitigation options are highlighted here that are important in the national context due to the share of emissions produced from the activity, the magnitude of possible emissions savings, and feasibility of implementation. These 3 measures form part of a broader set of measures that would be needed to address agricultural emissions in the country, including improved on-farm energy use, improving livestock health, decarbonising the production of synthetic fertiliser, supporting soil carbon sequestration and measures to address the increasing trend in meat consumption.



#### Improved rice cultivation

Changing management practices related to water use (e.g. alternate wetting and drying) and nutrient input (e.g. fertilizer and straw) to reduce CH, and N<sub>2</sub>O emissions. Decarbonising on-energy farm use.



#### Improving fertiliser/ nutrient management

Reducing the total input of synthetic fertiliser and improving fertiliser use efficiency.



#### Improved manure management

Improving management of excess manure from large scale livestock operations, for example by improving manure distribution systems.

#### Key challenges for implementing mitigation measures



Financial and capacity constraints of smallholder farmers as well as the ageing of the rural population, limit opportunities to implement changes in agricultural management practices. Smallholder farmers are responsible for 70% of cultivated land.



Lack of agricultural support policies that support goals related to nutrition health and environment.



A very diverse agricultural system and the large scale at which change needs to be implemented require targeted solutions and collaboration of multiple level of governance for successful transformation.

Recommendations for enhancing mitigation in the agricultural sector



Enhancing policy coherence between production targets, ensuring food security and environmental protection.



Improving farm advisory services and monitoring capacities at the local level for tracking progress towards achieving national targets.



Accelerating the reform of agricultural support policy: Reduce agricultural support that incentivises unsustainable practices and increase support for alternatives that contribute to reducing GHG emissions and environmental pollution.

Sources for data on emissions: FAO (2022): Emissions Totals [Dataset]. https://www.fao.org/faostat/ en/#data/GT; Gütschow, J., Günther, A., & Pflüger, M. (2021). The PRIMAP-hist national historical emissions time series v2.3 (1750-2019). https://doi.org/10.5281/zenodo.517515.

