

GLOBAL RESEARCH ALLIANCE

ON AGRICULTURAL GREENHOUSE GASES

Country report : the Netherlands

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Specific contributions to IRG

Members of the Global Research Alliance aim to deepen and broaden mitigation research efforts across the agricultural sub-sectors, with the aim to develop breakthrough solutions in addressing agricultural greenhouse gas emissions.

1. The Netherlands has started an ambitious agricultural climate program that includes research into *new solutions* towards *implementation of effective solutions*.
2. *Carbon sequestration (and preservation of carbon)* in soil, but also in nature conservation and forest development is an important aspect of the program.
3. Results of the program are to be shared with the international research community (e.g. via EJP Soil or otherwise)

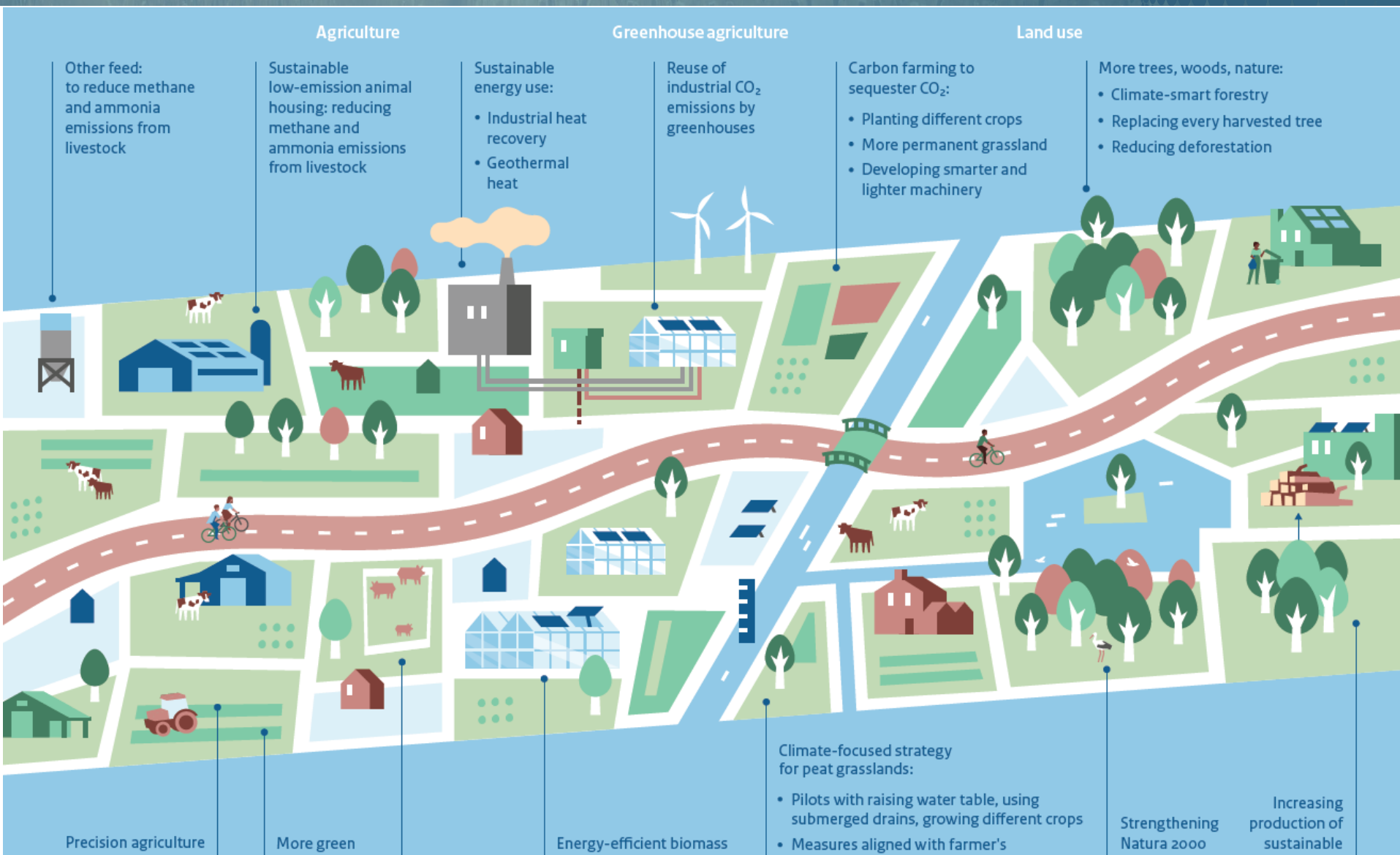
Climate ambition the Netherlands

- Dutch Climate legislation/law:
 - 49% GHG reduction in 2030
 - 95% GHG reduction in 2050
- Dutch Climate Agreement ("*Klimaat Akkoord*"):
 - Agreed between government, companies and NGOs
 - On sectoral targets
 - Agriculture and land use target of - 6 Mton CO₂-eq in 2030
 - Greenhouse horticulture: 1.8 - 2.9 Mton
 - Livestock: 1.2 - 2.7 Mton
 - Organic soils: 1 Mton
 - Soil carbon sequestration: 0.4 - 0.6 Mton
 - Nature and forests: 0.4 - 0.8 Mton
- Contributions to EU NDCs
 - The Netherlands contributes to EU NDC (-40% GHG emissions in 2030) and no net debit in LULUCF based on negotiated national (NL) contribution to EU – ESR

Climate Agreement / climate legislation

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Opportunities, future actions and funding

- EJP Soil and co-funding NL
- Circular Agriculture
- Smart Land Use (“*Slim Landgebruik*”) including GHG inventory preparation (Country Specific) to account for actions and incentives towards implementation (connect to CAP) and to other drivers (N challenge – NH_3 emissions).

Funding includes:

- Smart Land Use (*‘Slim Landgebruik’*),
- PPP Soil (public private partnership on Sustainable Soil) with funding from ministry of Agriculture and
- National Programme on Agricultural Soils.

Projects, initiatives and contributions to IRG's topics

- Project Smart land use
 - Inventory of country wide changes in soil C over the past 20 years together with Soil Quality Indicator monitor and improve our CS reporting (incl. N₂O and NIR's)
 - Projects on (innovative and new) measures to improve soil C
 - Incentives for farmers to enhance implementation
 - Monitoring system for progress towards target and reporting
- Networks
 - 7 National networks with (120+) farmers for demonstration and pilots including the application of tools and identification and implementation of effective strategies towards 2030 and beyond and monitoring of the effectiveness
- Scenario study
 - Dutch agriculture in 2050 under different GHG reduction targets and development directions and drivers in agriculture

- NL happy to start and host a network on Circular Food Systems
 - Prepare flagship on circular food systems
 - Explore and scientifically underpin effectiveness to grow more with less environmental impact.
 - Support shift in production system(s) and include RUE indicators on performance and enhance use of resources more efficiently and with less losses (also from economics)
 - Provide linking and govern in relation to other issues (e.g. Biobased Economy, Climate Change, food waste and losses, Soil fertility, optimal land use)
- Way forward
 - Food security, Resource Efficiency, Climate Change ALL benefit.
 - How and at what level are cycles to be best closed?
 - (re-)Connect agricultural production to the entire food system
 - Consider our health and safety issues (identified in the past)



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