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National Commitments

The **National Commitments** pathway aims to show what will happen if national commitments are met. This requires translating policy commitments into quantitative targets that can be modelled in the FABLE Calculator. Teams have reviewed key policy documents to set-up these targets for the food and land use system (agricultural production and trade, climate, biodiversity, food security and dietary recommendations).

In some cases, policy commitments lack clear quantification. **FABLE teams have proposed quantitative targets that are derived or inspired from these national commitments. These are in the yellow column.**

Please provide your feedback regarding these quantitative targets using our [public consultation form](#).

CO DE	Policy area	Policy ambition	FABLE team's proposed quantitative national targets	Justification and references
1	FOOD			
1a	Food	Undernourishment	<i>No undernourishment</i>	<p>There are nutrition and food recommendations for people of different ages. The National Nutrition Council has published nutrition recommendations for the following audiences: Adults, Babies and children under school age, School-age children and teenagers; Pregnant and breastfeeding mothers; Elderly people; Vegan diet; Special dietary needs. Furthermore, there are recent Nordic nutrition recommendations which also include environmental aspects https://pub.norden.org/nord2023-003/</p> <p>Finnish Institute for Health and Welfare</p> <p>Finnish Food Authority – Nutrition and food recommendations</p> <p>UN Food Systems Summit +2 in Rome: Finland advocates expanding school feeding to support the learning and development of children and young people</p>

FINLAND

1b	Food	Overweight / obesity	<i>Reduce the number of obese people by 1/3 by 2050</i>	<p>CLIMATE - FOOD Program: solutions for fostering a sustainable, healthy, and climate-neutral food system. However, the climate-food program has not been published though its aims - sustainable, healthy and climate-neutral food system - have been published.</p> <p>The climate food program is also a water body food program Obesity (children, adolescents and adults)</p> <p>Nutrition commitment (made of eight different content areas, such as the amount of salt or sugar) helps and encourages food business operators and stakeholders to improve the nutritional quality of the Finnish diet and to encourage nutritionally responsible practices. Free school meals are seen as one of the key means for achieving a high level of nourishment. Finland has set guidelines for reducing obesity.</p>
1c	Food	Diet-related disease	<i>Reduce obesity, diabetes and cardiovascular diseases, and others diet-related diseases by decreasing consumption of meat by 30% and dairy products by 20% and increasing consumption of fish and legumes.</i>	<p>See above.</p> <p>Saarinen, M. et al. 2020. A controlled dietary change could produce climate benefits, improve nutrition, and maintain Finnish agriculture. Article Series of Government's analysis, assessment, and research activities 12/2020: 8 p.</p> <p>Finland State Council: A controlled dietary change could produce climate benefits, improve nutrition and maintain Finnish agriculture</p>
1d	Food	Other food related targets	-	-
2 CLIMATE MITIGATION				
2a	Climate mitigation	Total GHG emissions reduction (by Gas or in CO2e - if in CO2e indicate what is the global warming potential factor used to convert non-CO2 emissions into CO2 -)	<i>Finland is climate neutral by 2035. No separate reduction targets per gas.</i>	<p>Finland aims to be carbon neutral by 2035 and carbon negative soon after. This target will be achieved by expediting the implementation of measures that aim to reduce emissions and strengthen Finland's carbon sinks and storages: this is specified in Finland's energy and climate strategy.</p> <p>Ministry of Labor and the Economy: Carbon-neutral Finland 2035 – national climate and energy strategy</p>

2b	Climate mitigation	Agriculture GHG emissions reduction	<p><i>29% reduction in total agricultural GHGs (CO₂, N₂O, CH₄; from "agricultural sector", LULUCF, agricultural land use); and CO₂ from energy use in agriculture) between the period 2019-2035</i></p>	<p>Finnish Government set a national target of reducing the total of agricultural GHG emissions (appr. 16 Mt CO₂e between 2019-2035), in December 2021, when publishing EU CAP plan of Finland for 2023-2027</p> <p>Land use sector climate plan (MISU) program</p> <p>State Council. Agricultural Greenhouse Gas Emission Reduction Objective by 2035. Actions included in the national CAP plan. Target for agricultural GHG emissions</p>
2c	Climate mitigation	Land use and land use change GHG emissions reduction	<p><i>No separate target for GHG emissions from agricultural land use, only for the total agricultural GHG emissions which however cannot be reached without large reductions in GHG emissions from agricultural land. MISU climate plan sets 3 Mt CO₂ eq. reduction target on GHG emissions from LULUCF sector (irrespective of C sinks) 2020-2035, using additional measures.</i></p>	<p>Land use sector climate plan (MISU)</p>
2d	Climate mitigation	Reduce or halt deforestation	<p><i>Halt deforestation, e.g. by making farmland cleared from forest non-eligible to CAP (pillar 2, payments).</i></p>	<p>MISU program (Climate plan for land use sector). CAP implementation plan of Finland, by the ministry of agriculture and forestry.</p> <p>Ministry of Agriculture and Forestry 2023. CAP-suunnitelman toteutus käynnistynyt vaiheittain 1.1.2023 alkaen.</p>
2e	Climate mitigation	Other climate mitigation related targets	<p><i>Non-increasing imports of food and agricultural commodities as a whole, though imports and exports of some food items and agricultural commodities might increase</i></p>	<p>HERO program of the Ministry of Agriculture and Forestry</p> <p>Ministry of Agriculture and Forestry. The carbon-euro program outlines actions to achieve the emissions reduction target in agriculture</p>
3 BIODIVERSITY				
3a	Biodiversity	Reduce or halt loss of natural ecosystems	<p><i>Reduce the loss of natural habitats close to zero by 2030</i></p>	<p>Kunming-Montreal CBD conference</p>

3b	Biodiversity	Promote afforestation	<i>50 000 ha of reforestation/afforestation by 2050</i>	<p>Government Report on the Climate Plan for the Land Use Sector states that the goal is to afforest 3000-4000 ha annually.</p> <p>Ministry of Agriculture and forestry: Government Report on the Climate Plan for the Land Use Sector</p>
3c	Biodiversity	Expand protected areas or 'Other effective area-based conservation measures' (OECMs)	<i>25% of land area is protected by 2050</i>	<p>The target is to protect 30% of the land area. High costs of protection implies that 25% of land area is protected by 2050. Increase in protected area is most needed in southern Finland where land values and hence the costs of protection are high.</p> <p>Ministry of the Environment. EU Biodiversity Strategy.</p>
3d	Biodiversity	Expand cropland area under agroecological practices	<i>30-40% of crop area is cultivated using agroecological practices by 2050</i>	<p>Diversity of cropping and crop rotations become increasingly adopted, though this development is slow due to high production costs and economic pressures which leads to adoption of low-cost options for diversifications, e.g., the use of under-sown crops for guaranteeing permanent land cover.</p> <p>The European Commission has set a target of 'at least 25% of the EU's agricultural land under organic farming and a significant increase in organic aquaculture by 2030.</p> <p>Peltonen-Sainio, P., Jauhiainen, L. & Lehtonen, H. 2016. Land use, yield and quality changes of minor field crops: Is there superseded potential to be reinvented in northern Europe? PLoS ONE 11(11): e0166403. doi:10.1371/journal.pone.0166403</p>
3e	Biodiversity	Reduce or halt use of agrochemicals and other agricultural practices that harm biodiversity	<i>(Difficult to set such targets in this quantitative study - the use of agrochemicals is not explicitly included or modelled)</i>	<p>EU Green deal objective: reduce the use and risk of chemical pesticides by 50% in 2030.</p> <p>Green Deal: Halving pesticide use by 2030</p>
3f	Biodiversity	Other biodiversity related targets	-	-

4 NITROGEN & PHOSPHOROUS				
4a	Fertilizer use	Limit N use	<i>No explicit national targets set</i>	<p>There is a target in the EU Green Deal to reduce the use of nitrogen fertilizers by 20 % by 2030. Overall N use may reduce if less feed production due to dietary change, and/or if mineral N fertilizers are replaced by crop rotations with nitrogen fixing plants such as legumes (grass leys or grain legumes)</p> <p>The European Commission aims to see a reduction in nutrient losses of at least 50% by 2030, while ensuring no deterioration in soil fertility. This is expected to lead to a reduction in fertilizer use of at least 20%.</p>
4b	Fertilizer use	Limit P use	<i>No explicit national targets set</i>	No explicit targets - Overall P use may reduce if less feed production due to dietary change
4c	Fertilizer use	Other N and P related targets	-	-
5 WATER				
5a	Water	Limit water use	<i>No targets</i>	Irrigation may increase if high efficiency in the use of irrigation water - in fact adaptation to climate change may require increasing irrigation. However, there is a plenty of surface water (whole-year precipitation is forecasted to increase in Finland in all climate scenarios, though drought periods during the growing season will become more frequent)
5b	Water	Other water related targets	<i>No quantitative targets</i>	CAP-suunnitelman toteutus käynnistynyt vaiheittain 1.1.2023 alkaen. Ministry of Environment. Water protection program
6 ECONOMY				
6a	Economy	Self-sufficiency	<i>Avoid reduction in self-sufficiency in agricultural commodities produced in Finland</i>	Program of Prime Minister Petteri Orpo's Government

FINLAND

			<i>(rice, wine, coffee, tea, some fruits, and vegetables are not)</i>	
6b	Economy	Farmers' income	<i>Avoid reduction in farmers' income</i>	HERO program of the Ministry of Agriculture and Forestry Ministry of Agriculture and Forestry. The carbon-euro program outlines actions to achieve the emissions reduction target in agriculture
6c	Economy	Agricultural exports	<i>Increasing agricultural exports</i>	Program of Prime Minister Petteri Orpo's Government
6d	Economy	Timber exports	<i>Increasing exports of long-lived products, such as timber as construction materials, from wood industry.</i>	Energy and climate strategy of Finland Ministry of Employment and Economy. Carbon-neutral Finland 2035 – national climate and energy strategy
6e	Economy	Employment in agricultural sector	<i>No targets.</i>	-