

National food and land mitigation pathways for net zero

FABLE Policy Brief - Supplementary Material October 2022

The food and land use mitigation profile dashboards provide the user with a visual representation of each country's main properties:

- Net zero target year
- Profile affiliation
- Food consumption pattern
- Land CO₂ removal potential
- Key mitigation actions









































































About FABLE


The Food, Agriculture, Biodiversity, Land-Use, and Energy (FABLE) Consortium is a collaborative initiative to support the development of globally consistent mid-century national food and land-use pathways that could inform policies towards greater sustainability. FABLE is convened as part of the Food and Land Use Coalition (FOLU). The Consortium brings together teams of researchers from 20 countries and international partners from Sustainable Development Solutions Network (SDSN), the International Institute for Applied Systems Analysis (IIASA), the Alliance of Bioversity International and CIAT, and the Potsdam Institute for Climate Impact Research (PIK). Reports published in 2019 and 2020 further describe the FABLE approach to developing pathways to sustainable food and land-use systems.


Food and land use mitigation profile dashboards

	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
Afghanistan	2050	6	No	Low	
Albania	No date	4	Yes	Low	
Algeria	No date	4	Yes	Low	
Angola	2050	3	Yes	High	
Antigua and Barbuda	2040	4	Yes	Low	
Argentina	2050	4	Yes	Low	
Armenia	2050	4	Yes	Low	
Australia	2050	3	Yes	High	
Austria	2040	4	Yes	Low	
Azerbaijan	No date	4	Yes	Low	
Bahamas	2050	4	Yes	Low	
Bangladesh	2030	6	No	Low	
Barbados	2030	4	Yes	Low	
Belarus	No date	2	Yes	High	
Belgium	2050	4	Yes	Low	
Belize	2050	3	Yes	High	
Benin	No date	5	No	High	
Bolivia	No date	3	Yes	High	
Bosnia & Herzegovina	No date	1	Yes	High	
Botswana	No date	5	No	High	
Brazil	2050	3	Yes	High	
Bulgaria	2050	4	Yes	Low	

- Reduce/Avoid excessive consumption
- Increase agricultural productivity
- Restore former agricultural land
- Stop deforestation
- Stop agricultural land expansion
- (large scale) Afforestation


	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
Burkina Faso	2050	5	No	High	  
Burundi	2050	5	No	High	  
Cambodia	2000	3	Yes	High	  
Cameroon	No date	5	No	High	  
Canada	2050	3	Yes	High	  
Cape Verde	2050	4	Yes	Low	  
Central African Rep.	2050	3	Yes	High	  
Chad	2050	3	Yes	High	  
Chile	2050	2	Yes	High	  
China	2060	4	Yes	Low	  
Colombia	2050	3	Yes	High	  
Comoros	2050	6	No	Low	  
Congo	No date	5	No	High	  
Costa Rica	2050	2	Yes	High	  
Côte d'Ivoire	No date	5	No	High	  
Croatia	2050	4	Yes	Low	  
Cuba	No date	1	Yes	High	  
Cyprus	2050	4	Yes	Low	  
Czech Republic	No date	4	Yes	Low	  
Dem. Rep. of the Congo	No date	5	No	High	  
Denmark	2050	3	Yes	High	  
Djibouti	No date	4	Yes	Low	  
Dominica	No date	4	Yes	Low	  
Dominican Republic	2050	1	Yes	High	  

 Reduce/Avoid excessive consumption





 Increase agricultural productivity


 Restore former agricultural land


 Stop deforestation

 Stop agricultural land expansion

 (large scale) Afforestation


	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
Ecuador	No date	3	Yes	High	  
Egypt	No date	4	Yes	Low	
El Salvador	No date	3	Yes	High	
Estonia	No date	3	Yes	High	
Eswatini	No date	1	Yes	High	
Ethiopia	2050	5	No	High	
Fiji	2050	2	Yes	High	
Finland	2035	3	Yes	High	
France	2050	4	Yes	Low	
Gabon	No date	3	Yes	High	
Gambia	2050	5	No	High	
Georgia	No date	3	Yes	High	
Germany	2045	4	Yes	Low	
Ghana	No date	2	Yes	High	
Greece	2050	4	Yes	Low	
Grenada	2050	4	Yes	Low	
Guatemala	No date	3	Yes	High	
Guinea	2050	5	No	High	
Guinea-Bissau	No date	3	Yes	High	
Guyana	No date	3	Yes	High	
Haiti	2050	5	No	High	
Honduras	No date	5	No	High	
Hungary	2050	4	Yes	Low	
Iceland	2040	1	Yes	High	

 Reduce/Avoid excessive consumption









































































 Increase agricultural productivity


 Restore former agricultural land


 Stop deforestation

 Stop agricultural land expansion

 (large scale) Afforestation


	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
India	2070	6	No	Low	  
Indonesia	2060	5	No	High	  
Iran	No date	4	Yes	Low	  
Iraq	No date	6	No	Low	  
Ireland	2050	1	Yes	High	  
Israel	2050	4	Yes	Low	  
Italy	2050	4	Yes	Low	  
Jamaica	2050	5	No	High	  
Japan	2050	4	Yes	Low	  
Jordan	No date	4	Yes	Low	  
Kazakhstan	2050	4	Yes	Low	  
Kenya	No date	5	No	High	  
Kiribati	2050	4	Yes	Low	  
Kuwait	No date	4	Yes	Low	  
Kyrgyzstan	No date	1	Yes	High	  
Laos	2050	3	Yes	High	  
Latvia	2050	2	Yes	High	  
Lebanon	2050	4	Yes	Low	  
Lesotho	2050	4	Yes	Low	  
Liberia	2000	5	No	High	  
Libya	No date	4	Yes	Low	  
Lithuania	2050	1	Yes	High	  
Luxembourg	2050	4	Yes	Low	  
Macedonia	No date	4	Yes	Low	  

 Reduce/Avoid excessive consumption



































































 Increase agricultural productivity


 Restore former agricultural land


 Stop deforestation

 Stop agricultural land expansion

 (large scale) Afforestation


	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
Madagascar	No date	5	No	High	  
Malawi	2050	3	Yes	High	  
Malaysia	2050	3	Yes	High	  
Maldives	2030	6	No	Low	  
Mali	2050	3	Yes	High	  
Malta	2050	4	Yes	Low	  
Mauritania	2050	4	Yes	Low	  
Mauritius	2050	4	Yes	Low	  
Mexico	No date	3	Yes	High	  
Moldova	No date	4	Yes	Low	  
Mongolia	No date	3	Yes	High	  
Montenegro	No date	3	Yes	High	  
Morocco	No date	4	Yes	Low	  
Mozambique	2050	5	No	High	  
Myanmar	2050	3	Yes	High	  
Namibia	2050	3	Yes	High	  
Nepal	2045	5	No	High	  
Netherlands	2050	4	Yes	Low	  
New Zealand	2050	1	Yes	High	  
Nicaragua	2050	5	No	High	  
Niger	2050	6	No	Low	  
Nigeria	2060	5	No	High	  

 Reduce/Avoid excessive consumption





























































 Increase agricultural productivity

 Restore former agricultural land
































































 Stop deforestation


 Stop agricultural land expansion


 (large scale) Afforestation

	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
North Korea	No date	4	Yes	Low	  
Norway	2050	4	Yes	Low	  
Oman	No date	4	Yes	Low	  
Pakistan	2050	6	No	Low	  
Panama	2050	3	Yes	High	  
Papua New Guinea	2050	3	Yes	High	  
Paraguay	No date	3	Yes	High	  
Peru	2050	5	No	High	  
Philippines	No date	3	Yes	High	  
Poland	No date	4	Yes	Low	  
Portugal	2045	4	Yes	Low	  
Romania	No date	4	Yes	Low	  
Russia	2060	2	Yes	High	  
Rwanda	2050	5	No	High	  
Saint Kitts and Nevis	No date	4	Yes	Low	  
Saint Lucia	No date	4	Yes	Low	  
Saint Vincent	2050	4	Yes	Low	  
Samoa	2050	3	Yes	High	  
Saudi Arabia	2060	4	Yes	Low	  
Senegal	2050	5	No	High	  

-  Reduce/Avoid excessive consumption
-  Increase agricultural productivity
-  Restore former agricultural land
-  Stop deforestation
-  Stop agricultural land expansion
-  (large scale) Afforestation


	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions
Serbia	No date	4	Yes	Low	  
Seychelles	2050	4	Yes	Low	  
Sierra Leone	2050	5	No	High	  
Slovakia	2050	4	Yes	Low	  
Slovenia	2050	4	Yes	Low	  
Solomon Islands	2050	3	Yes	High	  
South Africa	2050	4	Yes	Low	  
South Korea	2050	6	No	Low	  
Spain	2050	4	Yes	Low	  
Sri Lanka	2060	5	No	High	  
Sudan	2050	3	Yes	High	  
Suriname	No date	3	Yes	High	  
Sweden	2045	2	Yes	High	  
Switzerland	2050	4	Yes	Low	  
Syria	No date	4	Yes	Low	  
Tanzania	2050	5	No	High	  
Tajikistan	No date	4	Yes	Low	  
Thailand	2065	3	Yes	High	  
Timor-Leste	2050	3	Yes	High	  
Togo	2050	5	No	High	  
Trinidad and Tobago	2050	4	Yes	Low	  


 Reduce/Avoid excessive consumption




















































 Increase agricultural productivity

 Restore former agricultural land

 Stop deforestation

 Stop agricultural land expansion

 (large scale) Afforestation

	Net Zero Year	Profile	Excessive Food Consumption Pattern	Land CO ₂ Removal Potential	Key Mitigation Actions	
	Tunisia	No date	4	Yes	Low	  
	Turkey	2053	4	Yes	Low	  
	Turkmenistan	No date	4	Yes	Low	  
	Uganda	2050	5	No	High	  
 Reduce/Avoid excessive consumption	Ukraine	2060	1	Yes	High	  
 Increase agricultural productivity	United Arab Emirates	2050	4	Yes	Low	  
 Restore former agricultural land	United Kingdom	2050	4	Yes	Low	  
 Stop deforestation	United States	2050	1	Yes	High	  
 Stop agricultural land expansion	Uruguay	2050	1	Yes	High	  
 (large scale) Afforestation	Uzbekistan	No date	4	Yes	Low	  
	Vanuatu	2050	3	Yes	High	  
	Venezuela	No date	5	No	High	  
	Vietnam	2050	1	Yes	High	  
	Yemen	2050	6	No	Low	  
	Zambia	2050	3	Yes	High	  
	Zimbabwe	No date	5	No	High	