

Contribution of the Austrian forest and wood sector to the Sustainable Development Goals

Austrian Forest Dialogue

Austrian Forest Strategy 2020+, Field of Action 7

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Preface

In September 2015, the international community agreed on the “2030 Agenda for Sustainable Development”. By doing so, the 193 Member States of the United Nations undertook to work towards the implementation of the 17 Sustainable Development Goals (SDGs) on a national, regional and international level by 2030. The Agenda 2030 stipulates a review of the implementation progress based on specific indicators.

SDG 15 decidedly claims the sustainable management of forests. The concept has a longstanding tradition in Austria, is predefined in the Austrian Forest Act and safeguarded by appropriate governance instruments.

This document illustrates how the Austrian forest and wood sector contributes to achieving the global Sustainable Development Goals. The present overview has been prepared in cooperation with the participants of the Austrian Forest Dialogue and the contact group for international forest policy of the Federal Ministry for Sustainability and Tourism (BMNT).

Further information:

- <https://sustainabledevelopment.un.org>
- www.sustainabledevelopment.un.org/?menu=1300
- <http://www.bundeskanzleramt.gv.at/nachhaltige-entwicklung-agenda-2030>
- www.bmnt.gv.at/forst/oesterreich-wald/waldstrategie-2020.html
- www.bfw.ac.at/ws/strat2020public.starten

1 End poverty in all its forms everywhere



Some goals and targets

SDG target 1.4: By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance

SDG target 1.5: By 2030, build the resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Smallholder income from forests, particularly in remote areas (SDG target 1.4)</p> <p>Development of forest-based activities which generate or complement income and employment in rural regions (SDG target 1.4)</p> <p>Forests help reducing the exposure and vulnerability to climate-related extreme events (SDG target 1.5)</p> <p>Cost efficiency of wood fuels</p>	<p>Forest sector's contribution to national GDP 1.7 % (Statistik Austria 2018)</p> <p>About 60 % small scale forest holders (< 20 ha) in Austria (nearly 100 000) (Waldverband)</p> <p>20.5 % of Austria's forest with protective function – total of 385 000 hectares (ha) of object-protecting forests (BMNT 2017)</p> <p>The federal Austrian Service for Torrent and Avalanche Control comprises following units:</p> <ul style="list-style-type: none"> • 7 provincial Headquarters • 21 regional Headquarters • 3 staff Units • Central payroll accounting unit 	<p>Achievements in line with Global Forest Goals 2 and 5 (United Nations Strategic Plan for Forests, 2017 -2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 5 • Field of action 6, Strategic Goal 2 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • Criterion 5: Protective Functions of Austrian Forests Ind. 1-4 (FOREST EUROPE Ind. 5.1, 5.2)

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p>About 1.5 million households in Austria are using wood as main or supplementing heating device (excluding district heat) (Österreichischer Biomasse-Verband 2017)</p>	

2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture



Some goals and targets

SDG target 2.3: By 2030, double the agricultural productivity and incomes of small-scale food producers, in particular women, indigenous peoples, family farmers, pastoralists and fishers...

SDG target 2.5: By 2020, maintain the genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Multifunctional land use planning and mosaic of diverse land use in rural areas</p> <p>Non-timber forest products contributing to balanced nutrition (e.g. collecting mushrooms/ berries in forests, hunting rights) (SDG target 2.3)</p> <p>Maintainance of genetic diversity of seeds and cultivated plants (SDG target 2.5)</p>	<p>Austrian Forest Act and the 9 provincial hunting laws as legal basis:</p> <ul style="list-style-type: none"> • Berries and mushrooms harvested in Austria's forests limited to 2 kg/ day and person (Forest Act) • About 250 t of mushrooms collected and 122 t of berries and nuts picked in Austria's forests annually (BOKU 2000, 2005, 2015) • 758 000 game harvested in 2017/2018 (Statistik Austria) <p>About € 1.3 million total value in fish marketing (marketed non-timber products obtained from forests and wooded land) (BMNT 2017)</p>	<p>Achievements in line with Global Forest Goals 2 and 5 (UNSPF, 2017-2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 1, Strategic Goals 1, 6 • Field of action 2, Strategic Goals 1, 4 • Field of action 4, Strategic Goals 1, 2, 6 • Field of action 5, Strategic Goal 1 • Field of action 6, Strategic Goal 7 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 3.3 Non-wood goods (FOREST EUROPE Ind. 3.3) • 4.6 Genetic resources (FOREST EUROPE Ind. 4.6)

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p>Austrian Research Centre for Forests manages gene reserve forests, seed banks, seed orchards and clonal archives</p> <p>IUFRO study "Forests, Trees and Landscapes for Food Security and Nutrition" (2015)</p> <p>Research projects on Non-Wood-Forest-Products and their national implementation (e.g. EFICEEC "StarTree", BOKU concept study on quantifying indicators on „Non Wood Products" and „Forest Services")</p>	

3 Ensure healthy lives and promote well-being for all at all ages



Some goals and targets

SDG target 3.9: By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Contribution of forests to clean air and water (SDG target 3.9)</p> <p>Use of forest landscapes for recreation and tourism</p> <p>Scientifically proven positive impact of green spaces and time spent in natural environment on human health</p> <p>Provision of medicinal products in forests</p>	<p>According to the Austrian Forest Act, anyone may enter and spend time in the forests for recreational purposes. Restrictions apply only under specific conditions.</p> <p>A survey found that 27 % of forest visitors stay for an average of 1-2 hours in the forest, 21 % stay 45-60 minutes (BFW 2017)</p> <p>"Welfare function" (in Austria 7 %) and "Recreational function" (in Austria 1.3 %) classified as two of the four key functions in Austria's Forest Development Plan (BMNT 2015)</p> <p>More than 20 agricultural and forest operations in Austria are part of the "Green Care" initiative</p>	<p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 2, Strategic Goal 6 • Field of action 5, Strategic Goals 1, 4, 6, 7 • Field of action 6, Strategic Goal 6 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 3.4 Services (FOREST EUROPE Ind. 3.4) • 5.4 Number and surface of water conservation areas (acc. to water law) in forests • 6.10 Recreation in forests (FOREST EUROPE Ind. 6.10) • 6.16 Awareness raising about the importance and health effects of forests

4 Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



Some goals and targets

SDG target 4.4: By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship

SDG target 4.7: By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, ...

SDG target 4.B: By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Education on natural resources for children and teenagers (forest kindergartens, forest pedagogic programmes, forestry high schools) (SDG target 4.7)</p> <p>Higher education on natural resources (forestry and related university programmes) (SDG target 4.7)</p>	<p>About 20 forest kindergartens in Austria (BFW 2016)</p> <p>212 students graduated from study programmes "forest sciences" and "wood sciences" at the University of Natural Resources and Life Sciences Vienna in 2017/2018 (BMNT 2018)</p>	<p>Achievements in line with Global Forest Goal 2 (UNSPF, 2017 -2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 3, Strategic Goal 5 • Field of action 4, Strategic Goal 7 • Field of action 6, Strategic Goals 4, 5, 7

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Vocational and tertiary forest education (forest training centres) (SDG target 4.4, 4.7)</p> <p>Scholarships available to students from developing countries (SDG target 4.B)</p>	<p>19 545 people participated 2017 in the courses of the forest training centres Ort, Ossiach and Pichl (BFW 2018)</p> <p>About 1 800 certified forest pedagogues in Austria (BMNT 2018)</p> <p>Forestry high school, Technical school for forestry and engineering for wood technology, forestry technician apprenticeship programme, Technical college for wood industries</p> <p>2018 opening of a new centre for forest education in Upper Austria, encompassing a technical school for forestry, a forest training centre and forest research facility</p> <p>Chair for Wood Construction and Architecture at Graz University of Technology</p> <p>Courses "Forest Products Technology and Timber Construction", "Forest Products Technology & Management", "Smart Buildings in Smart Cities - Energy Infrastructure and District Renovation" at Salzburg University of Applied Sciences</p> <p>Austrian agency for international mobility and cooperation in education (OeAD) funded scholarships for natural and social science disciplines (Total funds in 2016: 44.29 Mio. EUR) (grants.at)</p>	<p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 6.13 Research, training and further training (FOREST EUROPE Ind. B.11)

5 Achieve gender equality and empower all women and girls



Some goals and targets

SDG target 5.1: End all forms of discrimination against all women and girls everywhere

SDG target 5.5: Ensure women’s full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Raising numbers of female employees in the forest and wood sector (SDG target 5.1)</p> <p>Empowering women through rural development programmes (SDG target 5.5)</p>	<p>4 % female employees in the forest sector 2015, compared to 2 % in 2009 (BMNT 2017)</p> <p>58 % female employees in the Directorate-General Forestry and Sustainability of the Federal Ministry of Sustainability and Tourism</p> <p>About 30 % of all farms in AT with forestland owned by women</p> <p>Prizewinning Austrian network “Forest Women” (“Forstfrauen”)</p> <p>Project “Forests in women’s hands” by AT forest training centre</p> <p>European network “women exchange for Disaster Risk Reduction” (we4DRR)</p> <p>Female leaders in the Austrian forest and wood-based sector</p>	<p>Achievements in line with Global Forest Goals 2 and 5 (UNSPF, 2017 -2030)</p> <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> 6.5 Forest sector workforce – share of women (FOREST EUROPE Ind. 6.5)

6 Ensure availability and sustainable management of water and sanitation for all



Some goals and targets

SDG target 6.1: By 2030, achieve universal and equitable access to safe and affordable drinking water for all

SDG target 6.6: By 2020, protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Contribution to infiltration of rainwater, watershed management and warranty of drinking water quality (SDG target 6.1)</p> <p>Role of forests in increasing resilience against effects of floods and droughts</p> <p>Protection against soil erosion (SDG target 6.6)</p>	<p>Around 260 000 ha of water protection and conservation areas in Austrian forests (BMNT 2017)</p> <p>Viennese municipal department responsible for 33 000 ha of protection forest for water catchment areas with special forest and tourism management (Stadt Wien)</p> <p>IUFRO study "Forests and Water" (2018)</p>	<p>Achievements in line with Global Forest Goals 1 and 2 (UNSPF, 2017-2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 2, Strategic Goals 6, 7 • Field of action 5 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 2.2 Soil condition (FOREST EUROPE Ind. 2.2) • 5.1-5.4: Protective Functions of Austrian Forests (FOREST EUROPE Ind. 5.1, 5.2)

7 Ensure access to affordable, reliable, sustainable and modern energy for all

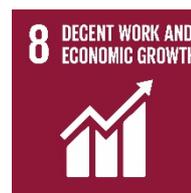


Some goals and targets

SDG target 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Crucial role of forests and trees as renewable source of biomass, bioenergy and fuel in the transformation towards a greener economy (SDG target 7.2)</p> <p>"Forests and Energy" Topic of the International Day of Forests 2017</p>	<p>Share of renewable sources of energy in gross final energy consumption about 33.5 % - 44.1 % of renewable energy based on wood (BMNT 2018)</p> <p>75.3 % of bioenergy in Austria generated from wood (BMNT 2018)</p> <p>4 % of the total national energy consumption covered by fuel wood</p> <p>Wood chips, log wood and pellets are 40-50 % cheaper than heating with oil or gas (Österreichischer Biomasse-Verband 2017)</p> <p>Sawmill by-products are used as a raw material for combined heat and power plants</p> <p>#mission2030: Austrian Climate- and Energy Strategy</p>	<p>Achievements in line with Global Forest Goal 3 (UNSPF, 2017 -2030)</p> <p>Linkages to global forest related indicator* 10 *by Collaborative Partnership on Forests (CPF)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 1, Strategic Goals 2, 5 • Field of action 3, Strategic Goal 2 • Field of action 6, Strategic Goal 2 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 6.9 Wood energy (FOREST EUROPE Ind. 6.9)

8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all



Some goals and targets

SDG target 8.2: Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors

SDG target 8.4: Improve progressively, through 2030, global resource efficiency in consumption and production and endeavour to decouple economic growth from environmental degradation, in accordance with the 10-year framework of programmes on sustainable consumption and production, with developed countries taking the lead

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Contribution of the forest and wood sector to the GDP</p> <p>Forest and wood sector offers jobs along the whole value-added chain (SDG target 8.2)</p> <p>Forest and wood sector is key to bioeconomy and transition away from fossil based economy, creating opportunities for new jobs (SDG target 8.4)</p>	<p>Forest sector's contribution to national GDP 1.7 % (Statistik Austria 2018)</p> <p>Forest-based sector generates a trade surplus of about 4 billion EUR annually (BMNT 2017)</p> <p>300 000 people earn income from the Austrian forest and wood sector (BMNT 2017)</p> <p>The sector of solid biomass employs more than 15 000 full-time workers and generates revenues of 2 billion EUR (Österreichischer Biomasse-Verband 2017)</p>	<p>Achievements in line with Global Forest Goal 2 (UNSPF, 2017 -2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 3, Strategic Goals 2, 5, 7 • Field of action 6, Strategic Goal 2 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 1.2 Growing stock (FOREST EUROPE Ind. 1.2) • 6.2 Contribution of the forest sector to GDP (FOREST EUROPE Ind. 6.2) • 6.3 Net revenue of the forestry enterprises (FOREST EUROPE Ind. 6.3)

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p>More than 2 100 biomass district heating plants create regional jobs and prevent rural exodus in Austria (Österreichischer Biomasse-Verband 2017)</p> <p>17 million cubic metres of timber were harvested in 2016 (increment of the stocking timber is higher than the harvested volume per year) (BMNT, BFW 2018)</p> <p>Safety regulations for forest works are defined by a federal law</p>	<ul style="list-style-type: none"> • 6.5 Forest sector workforce (FOREST EUROPE Ind. 6.5) • 6.6 Occupational safety and health (FOREST EUROPE Ind. 6.6)

9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation



Some goals and targets

SDG target 9.1: Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all

SDG target 9.4: By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Increasing efficiency of the sector through innovation in forest, timber, pulp, paper, board and bioenergy industry (SDG target 9.4)</p> <p>Austrian companies and research facilities are leading in bioenergy technology and engineering wood products for sustainable building solutions</p> <p>Well established forest road networks allowing efficient forest management (SDG target 9.1)</p> <p>Marketing of innovative wood-based cellulose fibres</p>	<p>About 50 applications for patents in the forest and wood sector 2001-2015 (BMNT 2017)</p> <p>Research on forest innovation systems and processes (e.g. Austrian contribution to SUMFOREST and FORESTVALUE Era-Net, EFICEEC StarTree, BOKU WOODC.A.R, BFW SUSTREE)</p> <p>45 running metres per hectare of forest roads in Austria (BFW)</p>	<p>Achievements in line with Global Forest Goal 2 (UNSPF, 2017 -2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 3, Strategic Goals 4, 5 • Field of action 5, Strategic Goal 5 • Field of action 6, Strategic Goal 3 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 6.21 Financial volume from the Rural Development Programme for the promotion of innovations in forestry

10 Reduce inequality within and among countries



Some goals and targets

SDG Target 10.4: Adopt policies, especially fiscal, wage and social protection policies, and progressively achieve greater equality

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>International agreements on forests to foster progress towards sustainable natural resources management (SDG target 10.4)</p> <p>Bilateral and multilateral cooperation of the forest and wood based sector</p> <p>Global forest certification schemes as mechanism for forest monitoring, tracing and labelling timber, wood and pulp products as well as non-timber forest products (SDG target 10.4)</p>	<p>The resolution of a “Non-legally binding instrument on all types of forests” adopted by the General Assembly of the United Nations in 2007</p> <p>The 193 members of the United Nations Forum on Forests (UNFF) agreed on the first UN Strategic Plan for Forests 2017-2030 in 2017</p> <p>Bilateral projects of the Austrian forest sector in developing countries (e.g. Suriname, Guatemala etc.)</p> <p>Austria’s contribution to international REDD+ projects (e.g. cultivation experiments in Burkina Faso, Nature protection efforts in Laos) (BMNT, BFW, ÖBf)</p> <p>75 % of Austria’s forests have been awarded with the PEFC (2.98 million ha) and 587 ha forests are FSC certified (BMNT 2017)</p>	<p>In line with Austria’s Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 3, Strategic Goal 1 • Field of action 7 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 3.9 Certified forest area • 7.1 Number of and budget of development cooperation projects with a forest focus • 7.2 Austrian contribution to an international and multilateral forest governance • 7.3 Public funds for forest-related, internationally operating organisations and for the participation of Austrian experts in forest-related international bodies

11 Make cities and human settlements inclusive, safe, resilient and sustainable



Some goals and targets

SDG target 11.4: Strengthen efforts to protect and safeguard the world’s cultural and natural heritage

SDG target 11.5: By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

SDG target 11.6: By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

SDG target 11.7: By 2030, provide universal access to safe, inclusive and accessible, green and public spaces, in particular for women and children, older persons and persons with disabilities

SDG target 11.A: Support positive economic, social and environmental links between urban, per-urban and rural areas by strengthening national and regional development planning

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Forests as cultural and natural heritage (SDG target 11.4)</p> <p>Enhancing safety of urbanised societies by maintaining the "green infrastructure" of forests, including its protective function against natural hazards and as natural water cycle regulator</p>	<p>The Wienerwald (105 645 ha) was designated as a Biosphere Reserve in 2005 by UNESCO (BPWW 2017)</p> <p>According to the Forest Development Plan, approx. 30 % of the Austrian forest area serves an increased or high protective function:</p>	<p>In line with Austria’s Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 2, Strategic Goal 2 • Field of action 4, Strategic Goal 4 • Field of action 6, Strategic Goals 2, 7

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>(SDG target 11.5)</p> <p>Importance of trees, green spaces and urban forestry for air quality in cities through absorption of pollutants and cooling effect, thus for human health and wellbeing (SDG target 11.6)</p> <p>Forests as green spaces in cities (SDG target 11.7)</p> <p>Reducing rural-urban migration through job and income generation in rural areas (SDG target 11.A)</p>	<ul style="list-style-type: none"> • Protective forests - soil, water and other ecosystem functions about 820 000 ha • Protective forests – infrastructure and managed natural resources about 385 000 ha <p>Funding for forest lands with object protection function (6 Mio. €/a, 1 120 project areas) (BMNT 2015, 2016, 2017)</p> <p>Total investment volume by the Austrian Forest Technical Service for Torrent and Avalanche Control in area management projects: approx. 10 Mio. €/a (BMNT 2016)</p> <p>95 000 ha of alluvial forests contribute, among other things, to the protective effect against flooding (BMNT 2011)</p> <p>50 % of the City of Vienna are covered by green areas (Stadt Wien)</p> <p>Multifunctional and sustainable forest management as goal included in the AT Strategy to fight rural-urban migration</p>	<ul style="list-style-type: none"> • Field of action 6, Strategic Goal 7 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 2.1 Deposition and concentration of air pollutants (FOREST EUROPE Ind. 2.1) • 5.1 Protection forests – soil, water, and other ecosystem functions (FOREST EUROPE Ind. 5.1) • 5.2 Protective forests – infrastructure and managed nat. resources (FOREST EUROPE Ind. 5.2) • 5.3 <ol style="list-style-type: none"> 1. Subsidies concerning protection forests granted in the framework of area management projects 2. Subsidies concerning protection forests granted in the framework of the Rural Development Regulation <ul style="list-style-type: none"> • 6.11 Number of activities carried out and/or supported in Austria which are valuable in cultural or spiritual term

12 Ensure sustainable consumption and production patterns



Some goals and targets

SDG target 12.2: By 2030, achieve the sustainable management and efficient use of natural resources

SDG target 12.5: By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

SDG target 12.8: By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Term "sustainability" deriving from forestry; therefore long-standing experience of the sector in the sustainable management of natural resources (SDG target 12.2, 8)</p> <p>Use of timber as renewable resource and biodegradable material (SDG target 12.2)</p> <p>Wood as renewable energy source substituting non-renewable fossil fuels (SDG target 12.2)</p> <p>Reduction of energy costs by using low energy materials (material efficiency) (SDG target 12.2)</p>	<p>Sustainable forest management defined in paragraph 1 of the Austrian Forest Act</p> <p>Cascading utilization of wood and wood products along the value-added chain is economically and ecologically beneficial (BFW 2016)</p> <p>Certified forest stands in Austria: PEFC 2.98 Mio. ha, FSC 587 ha</p> <p>Information campaign "The use of wood is good for the climate – We make our forest climate-fit!" of the Federal Ministry for Sustainability and Tourism 2016-2018</p> <p>The Austrian Action Plan for Sustainable Public Procurement comprises core GPP criteria for following product groups containing wood:</p>	<p>Achievements in line with Global Forest Goals 1, 2, 3 and 4 (UNSPF, 2017 -2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 1, Strategic Goals 2, 5 • Field of action 3, Strategic Goals 2, 3 • Field of action 6, Strategic Goals 1, 6 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 3.1 Increment and fellings (FOREST EUROPE Ind. 3.1) • 3.6 Fulfilment of demand for wood from Austrian forests • 3.9 Certified forest area • 6.7 Wood consumption (FOREST EUROPE Ind. 6.7)

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Contributing to circular economy by recycling timber and wood products (SDG target 12.5)</p>	<p>Fresh fibre paper, furniture, building construction, indoor equipment, office materials (wood and wood-based materials must be procured from legal and, if possible, from sustainable forest management) (BMNT 2013)</p> <p>Austrian Federal Law for "Recycling of wood waste"</p>	<ul style="list-style-type: none"> • 6.9 Wood energy (FOREST EUROPE Ind. 6.9) • 6.12 Public awareness and participation of the public (FOREST EUROPE Ind. B.10)

13 Take urgent action to combat climate change and its impacts



Some goals and targets

SDG Target 13.1: Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries

SDG Target 13.2: Integrate climate change measures into national policies, strategies and planning

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Forests, soils and harvested wood products are carbon storages and sinks</p> <p>Forests play a vital role in achieving the objective and long term pathway of the Paris Agreement and are part of the EU's climate and energy targets, e.g. through the inclusion of "Land Use, Land Use-Change and Forestry (LULUCF) into the EU climate policy (SDG target 13.2)</p> <p>Adaptation of forest ecosystems to climate change is important to safeguard their multiple functions, including the protective function (i.e., protection against erosion and natural hazards), welfare function (i.e. the protection of environmental goods like drinking water), and recreational function (SDG target 13.1)</p> <p>Use of wood as carbon neutral energy source</p>	<p>Wood contains 50 % carbon, 1 cubic metre wood stores 1 t CO₂ (proHolz)</p> <p>Austria's forests store about 985 million tonnes of carbon; this is more than 47 times the annual greenhouse gas emissions (BFW 2017)</p> <p>The national adaptation strategy comprises eight recommendations for actions in the forestry sector (BMNT 2017)</p> <p>Climate change measures feature prominently in the Austrian Forest Strategy 2020+</p> <p>#mission2030: Austrian Climate- and Energy Strategy</p> <p>Austria aims to promote the use of long-lived harvested wood products along the value chain and to accordingly increase its timber harvest up to 20-25 million solid cubic metres over bark</p>	<p>Achievements in line with Global Forest Goal 1 (UNSPF, 2017 -2030)</p> <p>Linkages to global forest related indicator* 3 * CPF</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 1 • Field of action 2, Strategic Goals 1, 2 • Field of action 3, Strategic Goals 2, 7 • Field of action 6, Strategic Goal 1 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 1.1 Forest area (FOREST EUROPE Ind. 1.1) • 1.2 Growing stock (FOREST EUROPE Ind. 1.2) • 1.3 <ol style="list-style-type: none"> 1. Age structure 2. Diameter distribution (FOREST EUROPE Ind. 1.3)

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p>(BMNT 2016)</p> <p>National initiative "The use of wood is good for the climate – We make our forest climate fit!" (BMNT)</p> <p>BMNT, through its international climate financing, supports projects on "Reducing Emissions from Deforestation and Degradation (REDD+)" (e.g. Laos with technical assistance by ÖBf has reduced 145 000 tonnes of CO₂ over 3 years)</p> <p>The use of wood as energy source prevented GHG-emissions of about 10 million CO₂ equivalents in 2015 (Österreichischer Biomasse-Verband 2017)</p>	<ul style="list-style-type: none"> • 1.4 Forest carbon (FOREST EUROPE Ind. 1.4) • 2.1 Deposition and concentration of air pollutants (FOREST EUROPE Ind. 2.1) • 2.4 Forest damage (FOREST EUROPE Ind. 2.4) • 2.5 Oxides of nitrogen, ammoniac, volatile organic compounds, sulphur dioxide, and heavy metal emissions • 6.9 Energy from wood resources • 6.12 Public awareness and participation of the public (FOREST EUROPE Ind. B.10)

14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development



Some goals and targets

SDG target 14.2: By 2020, sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts, including by strengthening their resilience, and take action for their restoration in order to achieve healthy and productive oceans

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Mangrove forests as vital habitats for fish, crab, shrimp and mollusc species (SDG target 14.2)</p>	<p>International collaboration to develop a Singaporean forest inventory with the support of Austrian experts; measurement of mangrove forests applying Austrian technology and know-how (BFW)</p>	<p>Achievements in line with Global Forest Goals 1 and 3 (UNSPF, 2017-2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 7, Strategic Goal 5 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 7.1 Number of and budget of development cooperation projects with a forest focus

15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



Some goals and targets

SDG target 15.1: By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements

SDG target 15.2: By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

SDG target 15.3: By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world

SDG target 15.4: By 2030, ensure the conservation of mountain ecosystems, including their biodiversity, in order to enhance their capacity to provide benefits that are essential for sustainable development

SDG target 15.5: Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species

SDG target 15.6: Promote fair and equitable sharing of the benefits arising from the utilization of genetic resources and promote appropriate access to such resources, as internationally agreed

SDG target 15.7: Take urgent action to end poaching and trafficking of protected species of flora and fauna and address both demand and supply of illegal wildlife products

SDG target 15.8: By 2020, introduce measures to prevent the introduction and significantly reduce the impact of invasive alien species on land and water ecosystems and control or eradicate the priority species

SDG target 15.9: By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts

SDG target 15.A: Mobilize and significantly increase financial resources from all sources to conserve and sustainably use biodiversity and ecosystems

SDG target 15.B: Mobilize significant resources from all sources and at all levels to finance sustainable forest management and provide adequate incentives to developing countries to advance such management, including for conservation and reforestation

SDG target 15.C: Enhance global support for efforts to combat poaching and trafficking of protected species, including by increasing the capacity of local communities to pursue sustainable livelihood opportunities

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Contribution to sustainable development through sustainable management of multifunctional forests</p>	<p>A widely recognised commitment to comprehensive sustainability in forest management (definition of the Forest Europe Helsinki resolution on SFM integrated in the Austrian Forest Act)</p> <p><u>Instruments securing the sound implementation of SFM:</u></p> <ol style="list-style-type: none"> 1. Legal framework 2. Institutional framework (law enforcement and knowledge management) 3. Financial mechanism 4. Science based monitoring and information system 	<p>Achievements in line with Global Forest Goals 1, 2, 3, 4 and 5 (UNSPF, 2017 -2030)</p> <p>Linkages to global forest related indicators* 1, 2, 4, 5, 7, 8, 15, 19, 20</p> <p>*CPF</p> <p>In line with Austria’s Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 1 “Contribution of Austrian forests to climate protection”

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p>5. Stakeholder participation</p> <p><u>Excerpt of National legal forest related framework:</u></p> <ul style="list-style-type: none"> • Austrian Forest Act • Timber Trading Surveillance Act • Act and Regulation of Forest Reproductive Material • Austrian Plant Protection Act • 9 provincial Nature Conservation Acts • 9 provincial Acts on National Parks • 9 provincial hunting acts • Forest development planning • Hazard Zone Mapping • Forest Ecology Programme under the Rural Development Policy • Ratification and entry into force of Alpine Convention protocols relevant to forests (e.g. Mountain forests, Soil conservation ...) <p><u>Examples for other instruments:</u></p> <ul style="list-style-type: none"> • Forest Strategy 2020+ (adopted in May 2016) • Work programme for implementing the Forest Strategy 2020+, including about 215 concrete activities • Austrian Forest Technical Service for Torrent and Avalanche Control • Federal and provincial protection forest platforms enhancing knowledge exchange and networking • Austrian Disaster Fund • Biodiversity index • Initiative "Climate-fit Forests" • Austrian Action Plan on Invasive Alien Species • Biodiversity Strategy 2020+ • Strategy for Adaptation to Climate Change 	<ul style="list-style-type: none"> • Field of action 2 "Healthy and vitality of Austrian forests" • Field of action 3 "Productivity and economic aspects of Austrian forests" • Field of action 4 "Biodiversity in Austrian forests" • Field of action 5 "Protective functions of Austria's forests" • Field of action 6 "Social and economic aspects of Austrian forests" • Field of action 7 "Austrian International Responsibility for SFM" <p>Austrian Set of 65 Indicators for Sustainable Forest Management</p>

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<ul style="list-style-type: none"> • National Park Strategy • Strategy for "Environment and Development" • #mission2030: Climate- and Energy Strategy <p><u>Financial mechanism for SFM:</u></p> <ul style="list-style-type: none"> • Providing opportunities for gaining economic revenues through forest management, • setting obligations for public and private investments into forest resources, • tax obligations and • subsidies. <p>—</p> <p>SDG Ind. 15.1.1: Forests area about 50 % of total Austrian land area</p> <p>SDG 15.2.1 sub-indicator: The forest cover increased by 4 300 ha annually</p> <p>SDG 15.2.1 sub-indicator: 22 % of the forest area located within legally established protected areas</p> <p>SDG 15.2.1 sub-indicator: 51 % of forest area under a long-term forest management plan</p> <p>SDG 15.2.1 sub-indicator: 75 % of forest area under an independently verified forest management certification scheme</p> <p>SDG 15.4: : 54 % of the national Natura 2000 sites are forest land (total of 6 852 km²)</p> <p>SDG 15.8.1: Rural development programme 14-20 funding available for measures to prevent and reduce the impact of invasive alien species and control or eradicate the species</p> <p>—</p>	

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p><u>AT forest in the international context:</u></p> <p>Austria is signatory state and currently acting as presidency of the Alpine Convention. Mountain Forest Working Group of the Alpine Convention Platform Natural Hazards of the Alpine Convention (PLANALP)</p> <p>AT has established and maintains Nature Forest reserves according to MCPFE-resolution H-2 an Art. 10 of Alpine Convention/protocol Mountain Forests</p> <p>Austria is actively involved in implementing the EU Strategy for the Alpine Region (EUSALP)</p> <p>AT is implementing the Framework for Disaster Risk Reduction (SFDRR)</p> <p>AT is member of the European Forest Genetic Resources Programme (EUFORGEN)</p> <p>Austria is founding member of the International Tropical Timber Organization (ITTO)</p> <p>AT ratified among others the Convention on Biological Diversity (CBD), the Convention to Combat Desertification (UNCCD), the Paris Agreement, the Bern Convention, the Bonn Convention, the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) and the RAMSAR Convention.</p> <p>AT is the host country of the International Union of Forest Research Organizations (IUFRO)</p> <p>Austria supports the Pan-European process for a legally binding agreement on forests (LBA) in Europe.</p>	

16 Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels



Some goals and targets

SDG target 16.4: By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime

SDG target 16.7: Ensure responsive, inclusive, participatory and representative decision-making at all levels

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Determination of the role and the utilization of forests in national legislation and programmes</p> <p>Combating illegal logging and associated timber trade (SDG target 16.4)</p> <p>The Austrian Forest Dialogue as an example for the implementation of good governance processes in forest and wood sector (SDG target 16.7)</p>	<p>Enforcement of the Federal Forest Act (1975)</p> <p>Implementing the EU Timber Regulation, (EC) No 995/2010, and FLEGT Regulation, (EC) No 2173/2005</p> <p>42 checks on operators importing timber and timber products by the Austrian Federal Forest Office related to the EU Timber Regulation (BFW 2018)</p> <p>About 300 verifications of FLEGT licenses by the Austrian Federal Forest Office since the beginning of FLEGT licensing in Indonesia in</p>	<p>Achievements in line with Global Forest Goal 5 (UNSPF, 2017 -2030)</p> <p>In line with Austria's Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 3, Strategic Goal 1 • Field of action 7, Strategic Goal 1 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 3.8 Share of the wood from illegal logging • 6.12 Public awareness and participation of the public (FOREST EUROPE Ind. B.10)

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<p>November 2016 (application of the Commission Delegated Regulation, (EU) 2016/1387, amending the FLEGT Regulation) (BFW 2018)</p> <p>Adoption of the Austrian Forest Strategy 2020+ in 2016 by all 85 parties involved in the National Forest Dialogue (BMNT)</p>	<ul style="list-style-type: none"> • 6.15 Availability of a permanent forest forum • 7.4 Austrian contribution to combating illegal logging

17 Strengthen the means of implementation and revitalize the global partnership for sustainable development



Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
<p>Inclusion of sustainable development goals and targets in national strategies and international cooperation</p>	<p>SDGs as guiding principle to address the full dimension of SFM – the National Forest Dialogue offers a platform for the involvement of all actors</p> <p>A strategic priority of the National Forest Dialogue is the integration of PPPs (Public-Private Partnerships) in sectoral development programmes on the national and international level</p> <p>Memorandum of Understandings (MoUs) between the Austrian Service for Torrent and Avalanche Control with e.g. China, Korea, Argentina, Taiwan etc.</p> <p>Forest-Wood-Paper (FHP) is a unique national collaboration platform</p> <p>International cooperation unit of the Austrian Research Centre for Forests (BFW)</p> <p>The Austrian Government supports the International Union of Forest Research Organizations (IUFRO)</p> <p>ANRICA (Austrian Natural Resources Management and International Cooperation Agency) contributes internationally to:</p> <ul style="list-style-type: none"> • Natural Disaster Risk Management (DRM) • National Forest Inventories (NFI) 	<p>Achievements in line with Global Forest Goals 4,5 and 6 (UNSPF, 2017 -2030)</p> <p>In line with Austria’s Forest Strategy 2020+:</p> <ul style="list-style-type: none"> • Field of action 6, Strategic Goal 7 • Field of action 7 <p>Austrian Set of Indicators for Sustainable Forest Management:</p> <ul style="list-style-type: none"> • 6.12 Public awareness and participation of the public (FOREST EUROPE Ind. B.10) • 6.15 Availability of a permanent forest forum • 7.1 Number of and budget of development cooperation projects with a forest focus • 7.2 Austrian contribution to an international and multilateral forest governance • 7.3 Public funds for forest-related, internationally operating organisations and for the participation of Austrian experts in forest-related international bodies

Contribution of forests	Facts and figures	Linkages to nationally and globally agreed goals and targets
	<ul style="list-style-type: none"> • Carbon Accounting for the Land Use Sector (LULUCF) • Sustainable Forest Management (SFM) <p>Austrian forest and wood associations are actively involved in international associations and committees</p>	

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Acronyms

BFW	Austrian Research Centre for Forests
BMNT	Federal Ministry for Sustainability and Tourism
BPWW	Biosphärenpark Wienerwald
CPF	Collaborative Partnership on Forests
FHP	Kooperationsplattform Forst-Holz-Papier
GDP	Gross Domestic Product
IUFRO	International Union of Forest Research Organizations
OeAD	Österreichische Austauschdienst-Gesellschaft
SDG	Sustainable Development Goals
SFM	Sustainable Forest Management
UN	United Nations
UNSPF	United Nations Strategic Plan on Forests

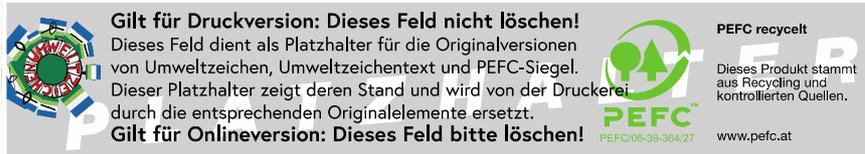
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