

FORMAT		
1. Name of resource	Climate Toolkit	
2. Location	https://climatetoolkit.org/	
3. Alternative location		
4. Author[s]	Climate Toolkit	
5. Publisher/producer/host	Phipps Conservatory and Botanic Gardens Conservation International	
6. Year	2021	
7. Suggested citation	Climate Toolkit, https://climatetoolkit.org/	
8. Languages in which available	English	
9. Geographic area resource relates to	Worldwide	
10. Does the resource relate to a specific time frame?		
11. Type	Report	
	Toolkit/Framework/Roadmap	Yes
	Sign-post to other resource (database)	
	Case studies	Yes
	Other	Yes (videos, and network to join)
12. If this is part of an initiative, what is the initiative?		
COLLECTIONS AND COLLECTIONS-BASED INSTITUTIONS		
13. Explicit links to collections	Yes	
14. Explicit links to museums/libraries/archives	Yes	
15. Types of institutions the resource covers	Museums	X
	Archives	X
	Libraries	
	Other	X
16. Types of collections/disciplines the resource covers	Arts, humanities and social sciences: philosophy, psychology, religion, social sciences, law, politics, language, arts and recreation, architecture, literature, history, geography and ethnology, anthropology, archaeology	X

	Science, natural history, technology, medicine, engineering, manufacturing	X
17. If no explicit links to collections, justification for inclusion		
HOW IT CONTRIBUTES TO SUSTAINABLE DEVELOPMENT		
18. Collections-related activities the resource relates to (mark all that apply)		
Develop collections to protect and safeguard wider cultural and natural heritage more effectively , for example by targeting collecting to threatened forms of heritage in strategic ways		
Use collections to promote learning and educational opportunities that contribute to sustainable development more effectively , for example education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development and/or skills development relating to collections		X
Use collections to promote cultural participation/social inclusion more effectively , for example by reducing barriers to participation, to ensure no-one is 'left behind'		
Use collections to promote sustainable tourism more effectively , for example by developing new products based on local cultural heritage, and/or considering the rights of stakeholder groups in relation to collections		
Use collections to support research that contributes to sustainable development (including all forms of personal and self-directed research at all levels that make use of stored collections) more effectively, for example by providing effective facilities, collections and information to meet researchers' needs		X
Make decisions around collections that contribute to sustainable development more effectively		
i. employment (recruiting, staff training, staff safety)		X
ii. energy consumption, greenhouse gas emissions, reduction, monitoring and reporting		X
iii. waste management and reduction of waste		X
iv. transport (forms of transport, energy use)		X
v. commercial activities including copyright and IP		
vi. governance and management		X
vii. security, disaster preparedness and risk reduction		
Direct external leadership, partnerships and collaborations towards sustainable development more effectively , for example by developing impactful partnerships		X
19. Does the resource relate clearly to any international conventions (mark all that		

apply)?	
Culture conventions:	
1952, 71 Protection of Copyright and Neighbouring Rights	
1954 Protection of Cultural Property in the Event of Armed Conflict	
1970 Fighting Against the Illicit Trafficking of Cultural Property	
1972 Protection of the World Cultural and Natural Heritage	
2001 Protection of the Underwater Cultural Heritage	
2003 Safeguarding of the Intangible Cultural Heritage	
2005 Protection and Promotion of the Diversity of Cultural Expressions	
Rio Conventions:	
Convention on Biological Diversity (CBD), Convention to Combat Desertification (UNCCD), Framework Convention on Climate Change (UNFCCC)	X
AIMS AND CONTENT	
20. What issues does the resource aim to address?	<p>“The Climate Toolkit is a collaborative opportunity for museums, gardens and zoos who want to learn how to aggressively address climate change within their own organizations and inspire the communities they serve to follow their lead.</p> <p>Currently, the Climate Toolkit embraces twenty-four goals for addressing climate change within the categories of energy, food service, transportation, plastics, landscapes and horticulture, investments, visitors and research. The goals were determined through a collaborative process with input from members of the Directors of Large Gardens group. The goals will evolve based on member input over time; we encourage the submission of updates about any climate-related efforts – whether from the existing goals list or beyond – from all participants.</p> <p>The Climate Toolkit’s goals are designed to align with both the United Nations Sustainable Development Goals (as compared here) and the Project Drawdown Table of Solutions (as compared here).</p> <p>Gardens who have already completed specific goals are encouraged to document their progress by identifying which goals they have completed and which goals they plan to complete in the future. Those who have already completed goals may take a leadership role in helping others by detailing their efforts in resource documents, interviews and presentations.</p> <p>All members of the Toolkit have access to the Toolkit blog, newsletters, and quarterly webinar series, all of which will</p>

	<p>feature stories of the important work that institutions are doing to address various Toolkit goals and provide useful resources.</p> <p>To date, 18 organizations serving more than 32,000,000 annual visitors have joined the Climate Toolkit. We are encouraging every organization to join this effort – our organizations are uniquely positioned to address this important issue and we will increase our impact by working together.”</p>
21. Intended audience of resource	Museums, gardens and zoos
22. Process of development	
23. Organisation/structure/contents	<p>About</p> <p>Webinars</p> <p>Join us</p> <p>Update your profile</p> <p>Blog</p> <p>Newsletter</p>
FRAMEWORKS	
24. Framework structure	<p>The Climate Toolkit is organized around, and can be searched by, 20 goals that are aligned to the Sustainable Development Goals:</p> <p>Food service Ensure 50% of pesticides and fertilizers used are fossil-free. Make 10% of all food purchases within 100-mile radius of site.</p> <p>Water Reduce use of municipal water by at least 25% Reduce potable water for irrigation by at least 25%</p> <p>Energy Generate or Purchase 100% renewable electricity. Build all new buildings as zero-energy buildings or Living Buildings.</p> <p>Waste, research Ensure any new constructions or renovations responsibly reduce and manage waste. Conduct region-specific research related to climate change.</p> <p>Transportation Incentivize employees to carpool, bike, bus, or otherwise forego single-occupant car transportation. Incentivize visitor sustainable travel. Convert parking spaces into greenspaces to combat the rising temperature in cities.</p> <p>Waste, investments Compost 100% of all food waste.</p>

	<p>Recycle or reuse all recyclable materials including metals, glass, and plastic throughout the conservatory.</p> <p>Eliminate all single-use plastic in food service, horticulture, gift shop, and all other facilities and operations.</p> <p>Eliminate the sale and use of bottled water.</p> <p>Divest from fossil fuel investments.</p> <p>Invest in socially responsible investments.</p> <p>Energy, visitors</p> <p>Meet the Paris Climate Agreement OR reduce fossil fuel reduction by 25%</p> <p>Teach best practices to mitigate and reduce global climate change.</p> <p>Assist visitors in switching to household renewable energy.</p> <p>Educate visitors on sustainable, fossil-free horticulture.</p> <p>Educate visitors on growing organic food.</p> <p>Educate visitors on the impacts of food choices and waste.</p> <p>Landscapes and horticulture</p> <p>Support reforestation to sequester carbon</p>
25. Relevant policy considerations	Yes
26. Resources for implementation identified	Yes
27. Specific assessment points/indicators/milestones/action plan for monitoring	Yes
28. ASPECTS OF SUSTAINABILITY COVERED BY RESOURCE (mark all that apply)	
People (social sustainability)	
Planet (environmental sustainability)	X
Prosperity (economic sustainability)	
Peace	
Partnerships	X
29. CROSS-CUTTING CONSIDERATIONS COVERED BY RESOURCE (mark all that apply)	
Gender perspectives	
North and South perspectives	
HOW THE RESOURCE CONTRIBUTES TO AGENDA 2030 AND THE SDGs	
HOW AGENDA 2030 AND THE SDGs FEATURE IN THE RESOURCE	
30. SDGs and Agenda 2030 specifically mentioned?	Yes
31. SDGs specifically mentioned?	Yes

32. SDG targets specifically mentioned?	Yes
33. SDG indicators specifically mentioned?	No
SDGs AND SDG TARGETS AND LINKAGES	
34. Comments on SDG linkages	<p>The 20 goals that the toolkit is organized around are aligned to SDG targets 2.4 (sustainable food production systems), 6.5 (integrated water management), 7.2 (adopt renewable energy), 9.4 (upgrade infrastructure to be sustainable), 9.5 (enhance scientific research), 11.2 (sustainable travel), 11.7 (safe, inclusive and accessible green and public spaces), 12.3 (reduce food waste), 12.5 (reduce waste generation), 12.C (rationalize inefficient fossil-fuel subsidies, although this fits more readily with SDGs 17.16 and 17.17, on global and multistakeholder partnerships), 13.2 (integrate climate change into national policies, strategies and planning), 13.3 (climate change awareness, education and institutional capacity), and 15.9 (integrate biodiversity values into national and local planning).</p> <p>In addition, the resource supports SDGs 4.7 (education for sustainable development), 7.3 (reduction in energy use, increase in energy efficiency), 12.8 (information for lifestyles in harmony with nature), 12.6 (adopt sustainable practices) and 12.7 (sustainable procurement).</p>
35. SDGs and SDG targets the resource helps advance	
<p>SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture</p> <p>2.4 By 2030, ensure sustainable food production systems to implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that</p>	<p>Collections development related to sustainable food production where appropriate.</p> <p>Number of educational and awareness-raising programmes incorporating sustainable food production perspectives, and that aim to reduce the impact of disasters on communities.</p> <p>Number of targeted programmes that support those most exposed and vulnerable to disasters, whether locally or farther afield.</p> <p>Number of research activities drawing on collections that relate to resilient agricultural practices, helping mitigate and adapt to climate change, flooding and other disasters.</p>

<p>progressively improve land and soil quality.</p>	<p>Policies and plans in place to eliminate unsustainable food production from supply chains and in any food provision in collections-based institutions.</p> <p>Number of partnership activities drawing on collections that contribute to Disaster Risk Reduction plans, supporting resilient agricultural practices, and helping mitigate and adapt to climate change, flooding and other disasters.</p>
<p>SDG 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all 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, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture’s contribution to sustainable development</p>	<p>Numbers of people in each type of programme drawing on collections from different demographic groups.</p> <p>Increases in numbers of people in each type of programme from different demographic groups.</p> <p>Proportion of people involved in such programmes in relation to overall audience size.</p> <p>Evidence that learners have acquired knowledge and skills to promote sustainable development.</p>
<p>SDG 6. Ensure availability and sustainable management of water and sanitation for all 6.5 By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate</p>	<p>Collections development, to ensure collections can be used to help support water quality programmes.</p> <p>Number of educational, awareness-raising, research and partnership programmes drawing on collections and collections-based institutions that aim to support integrated water resource management locally and globally.</p>
<p>SDG 7. Ensure access to affordable, reliable, sustainable and modern</p>	<p>Proportion of energy that comes from renewable sources.</p>

<p>energy for all 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix</p>	<p>Date to achieve net zero, and milestones towards that date.</p>
<p>SDG 7. Ensure access to affordable, reliable, sustainable and modern energy for all 7.3 By 2030, double the global rate of improvement in energy efficiency</p>	<p>Reduction in energy use. Upgrade of old equipment to more efficient equipment. Uptake of renewable sources of energy.</p>
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation 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</p>	<p>Number and proportion of collections facilities that:</p> <ol style="list-style-type: none"> 1. make efficient use of resources, with an ongoing drive for efficiencies and reductions in energy use and waste of all forms. 2. use clean and environmentally sound technologies, including climate-friendly energy sources and materials, with an ongoing commitment to reduce greenhouse gas emissions and waste of all forms. 3. adopt and/or prioritise collections-related processes and practices to reduce greenhouse gas emissions and waste of all forms.
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization 9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1</p>	<p>Number and proportion of collections facilities that effectively support research and researchers. Number and proportion of staff who are appropriately skilled to undertake and support collections-based research. Expenditure on initiatives to enhance and upgrade collections facilities. Numbers of staff engaged in supporting and developing research use based on collections. Number of initiatives to encourage innovation drawing on</p>

<p>million people and public and private research and development spending</p>	<p>collections.</p> <p>Increase in number of research and development workers per 1 million people.</p> <p>Increase in public and private research and development spending being used to develop and make use of collections.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons</p>	<p>Plans in place to ensure safe, affordable, accessible and sustainable transport systems for all, in terms of accessing collections-based institutions,</p> <p>Plans in place to use collections-based institutions to provide education and awareness of public transport systems and their development.</p> <p>Special attention to those in vulnerable situations, including women, children, disabled and older people, taken in plans regarding public transport.</p>
<p>SDG 11. Make cities and human settlements inclusive, safe, resilient and sustainable 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</p>	<p>Numbers of people accessing collecting institutions from different demographic groups, notably women, children, older people and persons with disabilities.</p> <p>Increases in numbers of people accessing collecting institutions from different demographic groups.</p> <p>Measures taken to remove barriers to access green and public spaces.</p> <p>Extent of green space provided by collections institutions.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns 12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food</p>	<p>Quantities, and reduction in quantities, of food waste, both in terms of waste going for treatment, and waste going to landfill or being otherwise discarded into the environment.</p> <p>Policies and plans in place to reduce and eliminate food waste as soon as possible.</p>

losses along production and supply chains, including post-harvest losses	
<p>SDG 12 Ensure sustainable consumption and production patterns</p> <p>12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse</p>	Quantity and reductions in quantity of waste of all kinds, including avoidance/prevention of waste production, reuse, and recycling. Quantity of material recycled in comparison with quantity sent to landfill. Increases in recycling rate in comparison with landfill.
<p>SDG 12 Ensure sustainable consumption and production patterns</p> <p>12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle</p>	<p>Clear visions, strategies and plans in place for all aspects of sustainability – environmental, social and economic (people, planet, prosperity)- across all areas of activity.</p> <p>Visions, strategies and plans relating to sustainability to be publicly available and incorporated into planning documents.</p> <p>Commitments to be in line with local, regional, national and/or international targets and ambitions.</p> <p>Incorporation of sustainability into reporting for funders and other stakeholders, including the public. Reporting to include commitments and progress towards targets.</p>
<p>SDG 12 Ensure sustainable consumption and production patterns</p> <p>12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities</p>	Incorporation of sustainability considerations into procurement, in terms of advertisement and invitation to tender, contracts, and selection criteria for suppliers.
<p>SDG 12 Ensure sustainable consumption and production patterns</p> <p>12.8 By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature</p>	<p><i>12.8.1 Extent to which (i) global citizenship education and (ii) education for sustainable development (including climate change education) are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment</i></p> <p>Extent to which global citizenship education and education for sustainable development (including climate change education) are mainstreamed in formal, informal and non-</p>

	formal education programmes and activities drawing on and related to collections.
<p>SDG 13. Take urgent action to combat climate change and its impacts 13.2 Integrate climate change measures into national policies, strategies and planning</p>	National organisations, institutions and networks relating to collections and collections-based institutions to have integrated climate change measures into policies, strategies and planning relating to collections and collections-based institutions, including funding and other resourcing considerations.
<p>SDG 13. Take urgent action to combat climate change and its impacts 13.3 Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning</p>	<p>Plans in place to enhance positive contributions to addressing climate change through use of collections. Plans in place to ensure collections, collections institutions and broader society can adapt effectively to climate change.</p> <p>Plans in place for effective education and awareness raising on climate change mitigation, adaptation, impact reduction and early warning.</p> <p>Plans in place to reduce negative contributions of collections-related functions, e.g. measuring greenhouse emissions with plans and targets in place to reduce them.</p>
<p>SDG 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 15.9 By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts</p>	<p>Proportion and number of relevant plans, processes and strategies that incorporate ecosystem and biodiversity values, and their relationships with effective collections.</p> <p>Plans in place to ensure that development of collections facilities contributes to effective conservation and restoration of terrestrial ecosystems.</p>
<p>SDG 17. Partnerships for the goals 17.16 Enhance the global partnership for sustainable development,</p>	Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships that share collection-related knowledge, expertise, technology and financial resources to address the SDGs, or that otherwise

<p>complemented by multi-stakeholder partnerships that mobilize and share knowledge, expertise, technology and financial resources, to support the achievement of the sustainable development goals in all countries, in particular developing countries</p>	<p>involve collections-based organisations and institutions.</p> <p>Number and/or increase in number, and diversity of global and international multi-stakeholder partnerships involving developing countries that share collection-related knowledge, expertise, technology and financial resources to address the SDGs.</p>				
<p>SDG 17. Partnerships for the goals 17.17 Encourage and promote effective public, public-private and civil society partnerships, building on the experience and resourcing strategies of partnerships</p>	<p>17.17.1 Amount of United States dollars committed to public-private and civil society partnerships</p> <p>Number and/or increase in number, and diversity of local, national and regional multi-stakeholder (public, public-private and civil society) partnerships that address the SDGs drawing on collections, or that otherwise involve collections-based organisations and institutions.</p>				
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	