



The Brother Group's biodiversity conservation activities

As of March 31, 2020

The Aichi Biodiversity Targets are global targets adopted at the tenth meeting of the Conference of the Parties (COP 10) to the Convention on Biological Diversity in a bid to realize a world of “Living in harmony with nature” by 2050. Twenty individual items were set as short-term targets for the period spanning 2011 to 2020.

In March 2015, the Biodiversity Working Group of the 4 Electrical and Electronic Associations*—of which Brother Industries, Ltd. is a member—identified eight items closely related to the industry which can be expected to deliver even greater contributions through active promotion. These items were released as the Guidelines for Action by the Electrical and Electronic Industries concerning Biodiversity Conservation. The Brother Group continues to undertake various activities in line with the guidelines.

Aichi Biodiversity Targets, Guidelines for Action by the Electrical and Electronic Industries concerning Biodiversity Conservation and the status of the Brother Group's activities

Aichi Biodiversity Targets	Action Guidelines for Biodiversity Conservation in the Electrical and Electronic Industries	Status of the Brother Group's activities
<p>Target 1: Awareness increased</p> <p>People recognize the value of biodiversity and related activities.</p>	<p>Member companies will conduct employee education on biodiversity wherever possible so that the importance of biodiversity conservation will be widely recognized. Member companies will also contribute to raising public awareness of information about their conservation activities through by cooperating with other stakeholders.</p>	<ul style="list-style-type: none"> •The biodiversity basic policy was established based on the Brother Group Environmental Policy, and all employees were informed of the policy. •The eco point program and Click for the Earth donation program were promoted, encouraging employees and their families as well as customers to take eco-conscious actions and at the same time providing opportunities such as for biodiversity-related activities, thereby raising and expanding environmental awareness.

<p><u>Target 4:</u> <u>Sustainable consumption and production</u></p> <p>All parties concerned implement their plans for sustainable consumption and production.</p>	<ul style="list-style-type: none"> • Member companies will conduct the following activities in their production activities and supply chains at each life-cycle stage wherever possible, in order to achieve sustainable consumption and production. • Promotion of efforts in accordance with Commitment to a Low Carbon Society • Continuous efforts to reduce CO2 emissions in the production process • The provision of products and services that contribute to achieving a low-carbon society • Promotion of efforts in accordance with the Voluntary Action Plan on the Environment (Section on the Establishment of a Sound Material-Cycle Society) • Reducing the volume of waste to be landfilled • The 3R activities (Reduce, Reuse and Recycle) • Promotion of efforts directly contributing to biodiversity conservation • The procurement of biodiversity-friendly materials, etc. 	<ul style="list-style-type: none"> • Resource conservation has been promoted, with reductions in size and weight, collection, and recycling of products in mind, from the development phase. • CO₂ emissions have been reduced by increasing the energy-saving performance of electronic circuits, implementing energy-saving functions, etc., thereby promoting the prevention of global warming. • ISO 14001 was introduced at respective business sites. Environmental conservation activities involving all employees (e.g. energy and resource conservation, chemical substances control, waste management, water saving, prevention of pollution) have been promoted to reduce impacts on ecosystems. • Efforts have been made to reduce CO₂ emissions and prevent global warming by increasing efficiency in energy use (e.g. electricity and fuel) at business sites and shifting to substances whose global warming coefficient is small, etc., thereby mitigating climate change and impacts on ecosystems
<p><u>Target 5: Habitat loss halved or reduced</u></p> <p>The loss of natural habitats including forests is at least halved, and degradation and fragmentation are significantly reduced.</p>	<p>Member companies will, wherever possible, take social actions and conduct biodiversity-conscious management of green spaces within their business premises, as well as promote the creation of ecosystem networks around the business premises, in order to protect habitats and reduce the degradation and fragmentation of habitats.</p>	<ul style="list-style-type: none"> • In the U.K., Brother has supported reforestation activities at a former quarry site, and provided opportunities to learn that reforested areas are inhabited by various animals and plants. • In Inner Mongolia, Brother has worked on a project to prevent desertification and promote greening, and planted seedlings of Russian olive (<i>Elaeagnus angustifolia</i>), a plant well adapted to the desert environment and saxaul (<i>Haloxylon ammodendron</i>) which is resistant to dry conditions.

<p><u>Target 8:</u> <u>Pollution reduced</u></p> <p>Pollution caused by chemical substances, fertilizers, and pesticides is reduced to the extent that is no longer harmful.</p>	<p>Member companies will strive for the appropriate management of chemical substances from a global perspective and reduce adverse effects on ecosystems wherever possible, in order to prevent pollution that is detrimental to ecosystems and biodiversity.</p>	<ul style="list-style-type: none"> •When procuring raw materials for products, Brother has actively promoted green procurement, avoided chemical substances that affect the environment, and pursued biodiversity-conscious procurement of raw materials. •Efforts have been made to reduce environmental impacts due to operations at manufacturing facilities (e.g. eliminating boilers fueled by heavy oil, decomposing pollutants using catalytic combustion systems, introducing advanced wastewater treatment systems), thereby reducing the impacts on ecosystems due to the pollution of air, water, soil, etc.
<p><u>Target 9:</u> <u>Invasive alien species prevented and controlled</u></p> <p>Invasive alien species are controlled or eradicated.</p>	<p>Member companies will actively work on the eradication of invasive alien species, the prevention of the introduction of invasive alien species and awareness-raising activities about the problem, particularly in the transportation of their products, in the management of green spaces within their business premises and in their social actions, in order to prevent the impacts caused by invasive alien species.</p>	<p>Taiwan Brother Industries, Ltd. removed <i>Mikania micrantha</i> (a climbing annual plant of <i>Asteraceae</i>) and ran an environmental education program to prevent damage caused by the rapidly-proliferating alien species.</p> <ul style="list-style-type: none"> •At Brother International Corporation, inspections were conducted on containers for transporting goods to prevent insect invasion.
<p><u>Target 11:</u> <u>Protected areas increased and improved</u></p> <p>At least 17% and 10% of the land and marine areas are designated as protected areas, etc. for conservation.</p>	<p>Member companies will, wherever possible, conduct biodiversity-conscious green space management which contributes to protected areas within their business premises and on land owned by their companies, as well as conduct conservation activities in protected areas outside their company premises, in order to expand protected areas that are important for biodiversity.</p>	<ul style="list-style-type: none"> •In Central and South America (e.g. the Republic of Peru), Brother has supported activities to conserve tropical rainforests and protect habitats of endangered wild animals in the basin of the Amazon River. •In Thailand, Brother has supported protection and recovery of local mangrove forests, and planted seedlings. As the mangrove forests have grown, the number of species of birds and aquatic animals has increased.

<p><u>Target 14:</u> <u>Ecosystems and essential services safeguarded</u></p> <p>Ecosystems that offer the blessings of nature are restored and conserved.</p>	<p>Member companies will conduct activities for conserving and restoring ecosystems wherever possible, so that ecosystem services can be used sustainably.</p>	<ul style="list-style-type: none"> •Based on a survey on its premises, Mie Brother Precision Industries, Ltd. has removed alien species and protected and cultivated native species in order to build a rich forest that increases ecosystem diversity. •In Slovakia, Brother has worked on a reforestation project in the High Tatra mountains where more than three million trees were lost due to a severe storm.
<p><u>Target 19:</u> <u>Knowledge improved, shared and applied</u></p> <p>Relevant knowledge, science and technology are improved.</p>	<p>Member companies will work on the development and dissemination of monitoring technologies which use ICT as well as promote the accumulation of data through biodiversity monitoring wherever possible, in order to improve knowledge, the scientific base and technologies relating to biodiversity.</p>	<p>In Australia, Brother has supported a survey on the biology and ecology of manta rays (<i>Manta birostris</i>) which are an icon of Australia's oceans and seas, in order to understand and conserve the country's unique ocean environment.</p> <ul style="list-style-type: none"> •In Gujo, Gifu Prefecture, Japan, Brother has planted seedlings of indigenous deciduous trees such as <i>Quercus serrata</i> Murray and <i>Quercus crispula</i> Blume as well as <i>Magnolia salicifolia</i> (willow-leaved magnolia),

*: The 4 Electrical and Electronic Associations consist of The Japan Electrical Manufacturers' Association, the Japan Electronics and Information Technology Industries Association, the Communications and Information network Association of Japan, and the Japan Business Machine and Information System Industries Association.