


Environmental Philosophy



NEW ENGLAND
BioLabs

be INSPIRED
drive DISCOVERY
stay GENUINE

A photograph of a large greenhouse filled with tropical plants, primarily Bird of Paradise (Strelitzia reginae), with large, vibrant green leaves. The greenhouse has a complex metal frame and a translucent roof, with sunlight filtering through. Various pipes and structural elements are visible, creating a technical yet naturalistic environment.

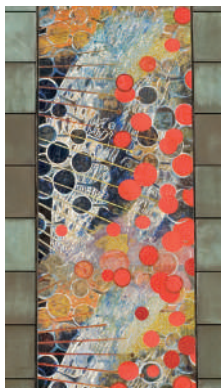
Tropical plants growing inside the greenhouse of the Solar Aquatics Wastewater Treatment Facility play a key role in the water treatment process.

Environmental stewardship is one of the founding principles of New England Biolabs.

By promoting sound ecological practices and environmental sustainability, NEB ensures the protection and preservation of natural resources, both locally and globally. We continuously strive for improvement in our business processes in order to minimize and, where possible, mitigate our impact on the environment. Raising awareness of our duty to the environment is paramount to NEB's corporate message. As an additional measure of our commitment, NEB has received ISO 14001 certification, a quality standard for environmental management systems.



A History of Sustainability Practices at NEB®



The first NEB catalog is printed using 100% recycled paper



1975

1976
NEB initiates a shipping box recycling program

The NEB Foundation supports environmental awareness, education, health, and the arts



1982

1984
Geothermal energy heats and cools the indoor garden at NEB

Our freezer program saves both shipping costs and energy use



1987

1987
Water-cooled refrigeration is installed to decrease air conditioning use

Company-wide, incandescent bulbs are replaced with fluorescent bulbs



1988

On campus bottle and can recycling program is established



1989

NEB recycles paper, plastic, expanded polystyrene, glass and aluminum, as well as batteries and electronics

1992

High-efficiency pumps are installed for the chiller systems, cutting amperage by >30%

1993

Conversion of refrigerators and freezers to CFC-free models



1994

NEB SUPPORTS the Mangrove Action Project in preserving mangrove ecosystems for local community land usage



1996

NEB SUPPORTS the Center for Marine Conservation in protecting ocean environments and the global abundance and diversity of marine life



1996

NEB Facility

NEB's modern 13,000 m³ research and production facility is LEED® certified (Leadership in Energy and Environmental Design). This is a distinction given based on a suite of environmentally-focused standards that include: site sustainability, water efficiency, energy conservation and atmospheric protection, choice of building materials and resources, indoor environmental quality, innovation, and building design. In 2009, NEB also received a sustainable design award from the Boston Society of Architects for the design of our state-of-the-art laboratory facility.

Most prominent in our conservation efforts is our Solar Aquatics System®. This modular system treats the campus' wastewater making it clean enough for reuse or for ground water recharge. This wastewater treatment plant has the ability to treat up to 181 m³ per day. For more details on NEB's facility please visit www.neb.com/environmentalphilosophy.

In 2017, NEB installed a series of solar panels that have the capacity to generate 10% of the electricity used by NEB.

Business Processes

Over 40 years ago, NEB was a pioneer in establishing a shipping box recycling program, to divert polystyrene from landfills. For the majority of shipments in Europe, NEB today utilizes the NEB Eco-Box, a carbon-neutral, sustainable solution employing straw or hemp as insulation material. In 1987, NEB established its first freezer program in the US, consolidating product shipments. Currently, NEB and its distribution partners run freezer programs in almost every country of the world.

All of our publications, including manuals, datacards and marketing materials are printed on recycled or Forest Stewardship Council® (FSC) certified paper using soy-based inks. Since 2013, all NEB catalogs and brochures produced in Europe are certified "carbon-neutral".

NEB has an extensive in-house recycling program for many products, including paper, plastics, expanded polystyrene, glass, aluminum, batteries and electronics. NEB also composts its cafeteria waste, diverting as much as 85% of this waste away from incineration. No waste generated at NEB enters a landfill.

1998

NEB SUPPORTS
the Sustainable Ecosystems Institute,
dedicated to finding science-based
and cooperative solutions to
environmental issues

1998

NEB SUPPORTS
the Marine Conservation Biology
Institute in advancing multidisciplinary
marine conservation biology

2000

The addition of chillers to the
fermentation process saves
23 m³ of water per day



2002

NEB SUPPORTS
Idea Wild, who work
with environmental
leaders to preserve the
Earth's biodiversity



2004

An on-site microbial water treatment facility
processes all of the campus' wastewater

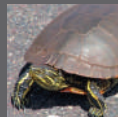
2005

NEB SUPPORTS
Trees, Water & People, who
help communities protect,
conserve and manage
their natural resources



2006

An education campaign
protects nesting female
Eastern Painted Turtles and
Snapping Turtles at
the NEB campus



2007

NEB SUPPORTS
Agua Para la Vida in helping rural
Nicaraguan communities build their own
drinking water and sanitation systems

2007

NEB receives LEED®
Green Building Certification
– the highest standard for
green practices



2007

NEB's van pool
is established



2008

Lunchroom composting is started
at NEB. Nearly 3.5 tons of compostables
are collected each month

2008

The Ocean Genome
Legacy explores and
preserves the biological
diversity of the sea



2009

MassRecycle recognizes NEB's
outstanding contributions to recycling
with the "Green Binnie" award

Global Conservation & Awareness

For over three decades, the NEB Catalog and Technical Reference has been a resource for scientists around the world. Each edition of the catalog contains minireviews that raise awareness of the impact we have on the environment. For information about past minireviews, please visit www.neb.com/environmentalphilosophy. In addition, with the release of each catalog, NEB offers support to non-profit organizations that promote environmental awareness.

In 2019, NEB partnered with Reforest the Tropics to plant 100 hectares of forest to offset emissions generated by NEB's headquarters.

The New England Biolabs Foundation (NEBF), a private foundation established in 1982, fosters community-based conservation of landscapes and seascapes, and the biocultural diversity found in these places. For more information, please visit www.nebf.org.

The Ocean Genome Legacy Center of New England Biolabs, located at Northeastern University's Marine Science Center in Nahant, MA, USA, promotes conservation of marine genomic diversity by creating and maintaining a repository of genomic DNA from marine organisms around the world. For more information, please visit www.neu.edu/ogl.

NEB also supports local environmental initiatives through our corporate donations program, which contributes to a variety of non-profit organizations.

For more information, please visit
www.neb.com/environmentalphilosophy

Non-Profit Organizations

As part of our commitment to raising environmental awareness, NEB has played a role in the establishment of two non-profit organizations, the New England Biolabs Foundation and the Ocean Genome Legacy Center.

2009

NEB achieves ISO 14001 certification – a standard for environmental management systems



2009

NEB receives a Sustainable Design Award from the Boston Society of Architects for the ecologically mindful design of its headquarters

2012

NEB achieves ISO 13485 certification – a standard for quality management systems



2013

NEB SUPPORTS
EcoLogic in empowering rural and indigenous peoples to restore and protect tropical ecosystems



2013



NEB releases first carbon neutral certified catalog produced in Europe.

2014

NEB introduces the Passion in Science Awards®, including an award for environmental initiatives

2015

NEB sponsors LabConscious, an open resource for life scientists in green lab initiatives



2016

NEB releases environmentally-friendly Monarch Nucleic Acid Purification Kits



2017

NEB's 2028 solar photovoltaic modules have the capacity to generate 0.75 megawatts of electricity that is returned back to the main Ipswich power grid

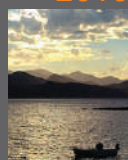
2019

NEB SUPPORTS
Paso Pacifico, who protect Western Central America's endangered turtle species from illegal turtle egg trade and destructive fishing practices through community education



2019

NEB SUPPORTS
Guanacaste Dry Forest Conservation Fund who are committed to conserving biological diversity in northwest Costa Rica



2019

NEB introduces a 100% recyclable / compostable solution for cold chain shipping – NEB Eco-Box



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www.neb.com/international-support



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