

Lighting Solutions

SUSTAINABILITY

LIGHTING SOLUTIONS FOR THE FUTURE

SUSTAINABILITY

Norlux is an advisor, partner and supplier of lighting solutions for the present and future. We want to contribute to a sustainable society through development and innovative lighting solutions.

We strive to have a sustainable business practice that respects people, society and the environment. Sustainable development means that current generations meet their needs without destroying the ability of future generations to meet their needs.

Norlux has been a certified Eco Lighthouse from 2020 and a member of Ethical Trade Norway from 2022.

Read more about our work on sustainability here:

<https://norlux.com/en/sustainability/>

TRANSPARENCY ACT

Norlux sets requirements for transparency in its own operations and in the entire supply chain. We comply with the Norwegian Transparency Act and are a member of Ethical Trade Norway.

As a member of Ethical Trade Norway, Norlux undertakes to work actively with due diligence assessments for sustainable business practices. We follow the UN's guiding principles for business and human rights and the OECD's model for due diligence assessments for responsible business.

Due diligence assessments are a risk-based approach to respecting and looking after people, society and the environment in our own business and throughout the supply chain. We expect our suppliers and partners to follow the same approach.

Read more about our policies and download documents here:

<https://norlux.com/en/sustainability/transparency-act/>

ENVIRONMENTAL WORK

We work continuously with plans for improvements regarding environmental impact and the environmental burdens associated with own operations. Norlux is a certified Eco Lighthouse.



NORLUX

ENVIRONMENT POLICY

We act as consultants, supplier and partner of lighting solutions for both the present and the future.

We perceive the consequences of our solutions and deliver in order to meet today's needs, without jeopardizing the opportunities for future generations meeting their needs and impact on nature and the environment in general. We also work actively and constantly with minimizing environmental impact related to our own – and our customers business.

Norlux AS contributes to a sustainable society through development and implementation of innovative lighting solutions. By doing so we contribute to a human centric lighting and reduced energy consumption. We are deeply concerned that our advice and choice of solutions demonstrate consideration for the vulnerability of society. We actively use our expertise in environmental -, safety - and risk evaluation as well as in our consultant work and in connection with the daily operation of delivered lighting solutions to our customers.

Daily requirements for environmental considerations in routines of carrying out tasks, in line with requirements for safeguarding, among other issues like health, safety and quality. This is to ensure that we give good advice and adequate deliveries to our customers so that the environment is safeguarded in the absolute most appropriate way.

Environmental requirements, we have prepared strict requirements for our own operation. We have identified environmental measures in the areas of energy, transport, waste and procurement. Some of these measures have already been implemented, while others are more comprehensive and requires more thorough investigation before they can be implemented. A plan for implementation is in process.

Our environmental policy is an integrated part of our company's quality system that is implemented. It is both a management responsibility and a responsibility for each individual employee to help ensure that the plan is complied with, is kept up to date and constantly improved.

The impact our business entails directly by using resources, creating pollution, waste and transport is very limited, however it is both desirable and fully possible to improve it through concrete measures. By environment here we think of the external environment, such as reduction of energy consumption, greenhouse gas emissions as well as hazardous substances for health and the environment and a reduction of resource consumption in general.

We are constantly working on plans and actions for improving the impact our own business has on the environment.

COLLECTING AND RECYCLING

Norlux follows the WEEE directive and ensures correct labeling of our products. We sort our own waste and accept EE waste. We are a member of RENAS.

COLLECTING AND RECYCLING

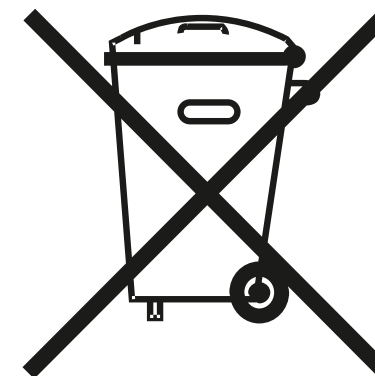
Most countries have regulations for proper collection and environmentally sound treatment of electrical and electronic wasted equipment, WEEE. The regulations states obligations regarding the collection and recycling as well as the financing of the scheme. This applies to such waste from household users (in some countries defined as consumer products) which may end up in municipal waste systems – and this category waste also from other types of users, such as i. e. businesses.

In accordance with local legislation Norlux will accept and temporarily store products Norlux has brought on to the market in Norway. This category of products is recognized by a duly placed dustbin logo on the product.

Norlux meets all obligations under the WEEE Directive and equivalent for non-EU countries, as well as its implementation in accordance with the member states' national legislation. In Norway this is defined in the regulations relating to the recycling of waste, 2004-06-01, no. 930, as amended.

WEEE symbol

In accordance with national legislation Norlux AS accepts products that the company has sold in the market after August 13th 2005 – these products are identified by the dustbin logo, placed on the equipment. Norlux also accepts to receive products that the company has sold to the market before August 13th 2005 when they have been replaced by a similar product or a product with similar function. Norlux offers its customers recycling following RENAS guidelines for the collection of products sold by the company.



WEE symbol

UN SUSTAINABILITY GOALS

Lighting can be used as an important tool to reach 11 of UNs 17 sustainable development goals for 2030. We have defined 11 reasons why good lighting should be prioritized by decision makers on both national and international plan. These reasons are attached and close to UNs goals and reflects our vision about a more sustainable community.

SECTOR LIGHTING

Lyskulturs 11 reasons to prioritize better lighting is higher security, better safety, better experiences, well-being, easier to orient, better health, better climate, less lighting pollution, lower energy consumption, better learning environment and better performance. Here are the Sustainable Development Goals that lighting can contribute to reach. In Norlux we have chosen to focus on the following goals:

- 3. Healthy lives and well-being
- 12. Responsible consumption and production
- 17. Partnerships for the goals





HEALTHY LIVES AND WELL-BEING

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

Well planned lighting can prevent serious health issues as chronic stress, migraine and depression. Well lit outdoor areas are also used more for training and social activities which improves mental health and stables blood pressure and lymph -and nerve system. Investing in lighting in work areas and schools will give higher learning and performance skills in additions to better well-being, health and life quality.



QUALITY EDUCATION

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

Lighting is about to form the physical learning environment so that people with different age and sight prerequisite can orient, socialize and participate in different learning activities. Concentration, humor, energy level and memory are all affected by lighting. The right lighting can optimize learning, performance and well-being for all individuals. For a lighting solution to facilitate for different activities and utilize daylight in the best possible way, light management systems should be implemented.



AFFORDABLE AND CLEAN ENERGY

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

LED is the most lasting and energy/cost efficient light source on the market today. Projects that focuses on international distribution of energy saving LED-bulbs in developing countries, have given people i rural areas the possibility to study, work and preform other tasks at nighttime. This has strengthen the life quality to individuals and given economical gain for the society they are living in. A quicker transition to LED based lighting will also release energy for the futures higher demand and need for electrical power.



INDUSTRY, INNOVATION AND INFRASTRUCTURE

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

The lighting industry technological development results in new energy and cost-effective light sources, lighting fixtures and management systems. To continue this positive development, decision makers will have to invest in development and production, upgrades of existing facilities and management systems in addition to competence within lighting in projects.



REDUCE INEQUALITIES

Reduce inequality within and among countries

Upgrading of lighting can be one of the easiest and cheapest ways to raise the level of an area. This can contribute democratic and integration of outdoor areas as residential areas, parks, squares, playgrounds and sports areas. Good lighting will make the public areas more available and will give better possibilities for a social life and more activity for more people. Availability of cost efficient electrical lighting in developing countries can also reduce inequalities among countries.



SUSTAINABLE CITIES AND COMMUNITIES

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

Energy efficient lighting is a simple way to minimize energy consumption and greenhouse gas emissions. Quick induction of energy efficient lighting solutions will release energy. This is important to meet our higher energy needs as cities grows and our society becomes more electrified. The correct use of lighting will also contribute to make us feel more safe and more proud of our local areas, which strengthen our affiliation to the area and its identity.



RESPONSIBLE CONSUMPTION AND PRODUCTION

Ensure sustainable consumption and production patterns

New sustainable measures withing ecodesign and energymarking for lighting products has been decided by the EU-countries this year. Regulations for quality assurance and phasing out products from the market has also been tightened. The industry should invest in development of innovative and energy efficient light sources, lighting fixtures and light management systems with a longer lifespan. Not at least is continuation of recycling and reuse very important to tomorrows goals for a more comprehensive circular economy.



CLIMATE ACTION

Take urgent action to combat climate change and its impacts

With a new and energy efficient technology and light management systems can we reduce the energy consumption and greenhouse gas emissions from lighting. Today's energy consumption for lighting in Norway is 7-10 TWh, and with help from LED-lighting and light management systems can we reduce the energy consumption with up until 90% indoor and outdoor. In addition to implementing climate friendly lighting solutions in new buildings, should all rehabilitation projects of buildings always include lighting.



LIFE BELOW WATER

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

Light regulate important life functions as reproductions, nutritional intake, migration and growth in marine mammal, amphibious, fish and microorganisms. Light also controls photosynthesis in algiers and corals. Light pollution, specially in coast areas and large watercourses, can harm the biological diversity and food chains in very important ecosystems. By investing in competence, lighting that can reduce these effects be implemented.



LIFE ON LAND

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

Through its damageable influence on animals, birds, insects and plants can light pollution threaten the biological diversity on land. Some of the functions light pollution can disturb is cycles and patterns in communication, search for nutrition, migration and reproduction for animals, pollination with insects and growth for plants. We need light; good light strengthens safety, security, orientation and health and well-being. By using professionals you can integrate lighting that are energy efficient and reduces light pollution. Further development of efficient solutions for recycling and reuse is important for tomorrows demands for a more comprehensive circular economy.



PARTNERSHIPS FOR THE GOALS

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

There is already several international organisations and close cooperations within the global lighting industry. Common regulations, standards and guidelines strengthens this cooperation and the focus on our common goal. If decisionmakers prioritize and use professional competence both nationally and internationally, can we together utilize the global potential within lighting as an advantage for everyone.



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