

BUILDING TOMORROW, TODAY



 **nexans**

Solutions for Sustainable Projects



The building sector in Europe is one of the major contributors to global warming and energy consumption. This is why Europe has implemented a “20-20-20” targets policy which aims at achieving by 2020 20% reduction in **EU greenhouse gas emissions, a share of 20 % of EU energy consumption produced from renewable resources and 20% improvement in EU energy efficiency.**

No wonder sustainability of construction work has become a topic investigated by all stakeholders all along the value chain of a project.

Property owners, engineering consultants and architects are constantly seeking new strategies to deliver sustainable buildings and structures that attract tenants and buyers whilst maximising “green value”, such as increased asset value and reduced risk of depreciation.

General companies and installers are then asking for products and solutions supporting this new approach.

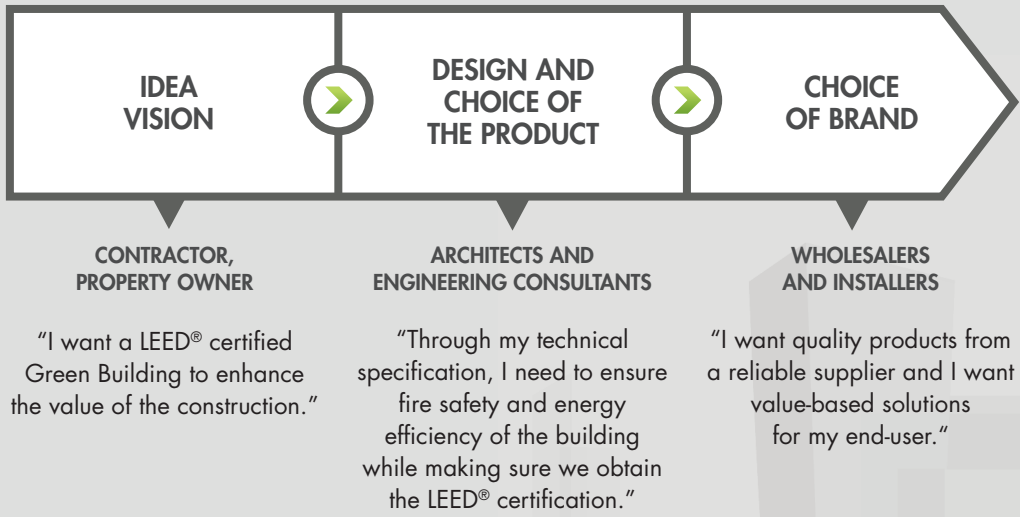
Meanwhile, occupants want buildings that foster collaboration as well as innovation and increase employee productivity and well-being. They also need to reduce operating costs, energy use, and environmental impact.

Within Nexans, we do offer solutions that will help each stakeholder all along the project in order to achieve the great objective of **BUILDING TOMORROW, TODAY.**

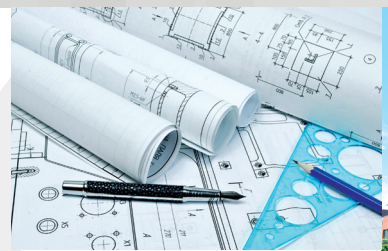


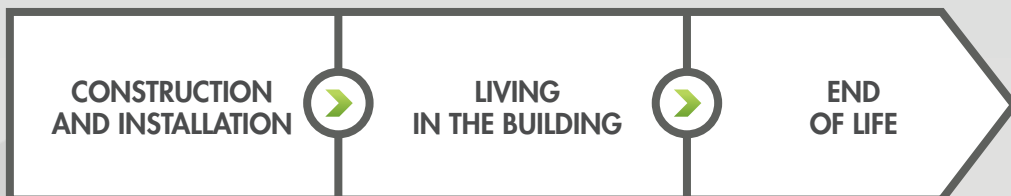
What do you expect when building Green ?

VALUE CHAIN OF A SUSTAINABLE BUILDING



AT EACH STAGE OF THE PROJECT, NEXANS HAS THE RIGHT SOLUTION FOR YOU !





ELECTRICAL INSTALLERS AND CONSTRUCTION COMPANIES

"I want easy to install products and I need to manage waste during construction."

FINAL USER

"I want a safe living environment with low energy bills."

PROPERTY OWNER

"I need to ensure a minimal impact on the environment when renovating."



Find what you need within the Nexans offer

ENERGY EFFICIENCY SOLUTION

Optimize your installation with Nexans EcoCalculator.

LOW IMPACT SOLUTION

Reduce the environmental impact of cables and packaging throughout their lifecycle, from manufacturing to end of life, thanks to Nexans "A la carte" solutions.

HEALTH & SAFETY SOLUTION

Protect people and goods thanks to halogen free product range with improved behaviour in case of fire.





Energy Efficiency Solution

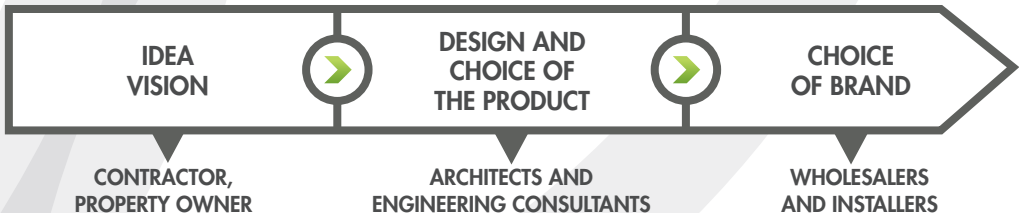
OPTIMIZE YOUR INSTALLATION WITH NEXANS ECOCALCULATOR

NEXANS ECOCALCULATOR IS AN ONLINE TOOL THAT WILL PROVIDE YOU WITH

- The best choice of cables for energy optimization.
- The savings you can get, based on calculation, by using the appropriate cross sections.
- Limited joule losses in the electrical installation.

REAL COMPETITIVE BENEFITS

- Easy to use: few parameters to key into the tool - directly accessible online from Nexans website.
- Transparent and reliable calculation: you will get all details of the calculation.
- Profitable: the return on investment for choosing the optimized cable solution is most of the time less than 2 years.
- Economical: electrical installations are a real source of energy savings





DID YOU KNOW?

By using the optimized proposed solution, Nexans EcoCalculator will provide you with reliable information:

CO₂ SAVINGS

Savings of CO₂ emission will be calculated in kg eq. CO₂, according to the country's specific energy mix.

ENERGY SAVINGS

Savings will be calculated in kWh and monetary costs over the period of use of the installed cable.

PROTECT LIFE

When available, the low fire hazard cable alternative will be suggested. In case of fire, those cables ensure the protection of people and equipment thanks to low smoke and limited hazardous gas emissions.

FOR YOUR NEXT PROJECT, YOU MIGHT WANT TO CONSIDER THE POTENTIAL ENERGY SAVINGS THAT CAN COME FROM AN OPTIMIZED ELECTRICAL INSTALLATION

TRY OUR ECOCALCULATOR AND CHECK THE FIGURES !

CONSTRUCTION
AND INSTALLATION



LIVING
IN THE BUILDING



END
OF LIFE

ELECTRICAL INSTALLERS AND
CONSTRUCTION COMPANIES

FINAL
USER

PROPERTY
OWNER

Low impact solutions

DURING ITS LIFE CYCLE, FROM MANUFACTURING TO END OF LIFE

"A LA CARTE" SOLUTIONS TO REDUCE THE ENVIRONMENTAL IMPACT OF CABLES AND PACKAGING

PEPecopassport® Environmental declaration of products

- More than 800 product references already covered by a PEP.
- Ask for it online.

Recycling facilities

- Old cable recycling is part of Nexans activities. Not only is it profitable but by doing so you will also make sure of the proper end of life for cable.
- Recycling is possible for both polymer and metal parts.

Environmental classification of Buildings

- Our solutions will help you get extra credits for Green Buildings Certification.

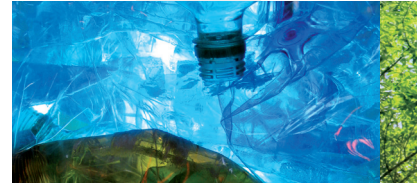
Green Drums Program

- Wooden drums are collected, repaired and reused to ensure that no waste is left on your building site.
- All wooden drums in Europe are PEFC* certified™: you can value this traceability all along your supply chain.

* Programme for the Endorsement of Forest Certification

REAL COMPETITIVE BENEFITS

- Nexans can help you reduce the impact of your own activities.
- Nexans provides you with reliable and concrete solutions according to international standards.

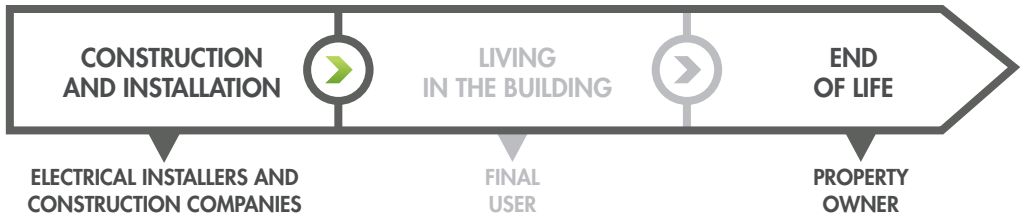




DID YOU KNOW?

- Nexans has been an active member of P.E.P association managing PEPecopassport® reference scheme since its creation in 2009.
- Nexans is also involved at a national level in a few Green Building Councils around the world.

FOR YOUR NEXT PROJECT, YOU MIGHT WANT TO CONSIDER TAKING INTO ACCOUNT ITS ENVIRONMENTAL IMPACT



Health and safety solutions

HALOGEN FREE PRODUCT RANGE WITH IMPROVED BEHAVIOUR IN CASE OF FIRE

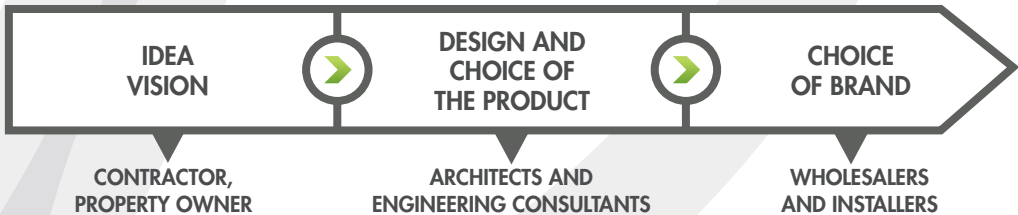
OPTIMIZED SAFETY

- A full range of products is already available.
- Halogen free products can be installed in priority applications such as

sensitive buildings (hospitals, schools, residential care home, offices, data centres, high rise buildings) and public buildings (shopping centres, discos, cinemas, hotel, museums, libraries...).

REAL COMPETITIVE BENEFITS

- Halogen free cables help ensure a safe evacuation of people.
- Halogen free cables help facilitate the work of rescue teams thanks to low smoke and limited hazardous gas emissions.

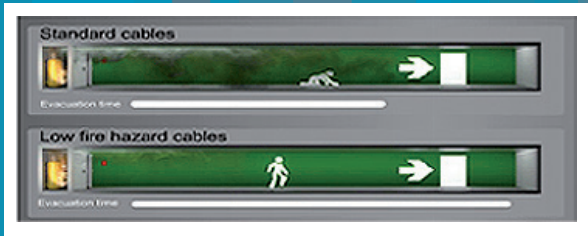


DID YOU KNOW?

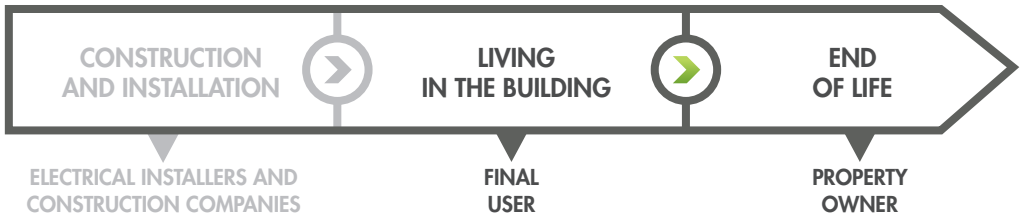
- Real-scale tests have been performed to compare standard cables and halogen free cables: significant improvement

can be measured with halogen free solutions.

- A demonstration is available on line on Nexans website.



FOR YOUR NEXT PROJECT, YOU MIGHT WANT TO CONSIDER HALOGEN FREE ALTERNATIVE FOR BETTER SAFETY.



Sustainable Buildings and construction projects

GREEN BUILDINGS ARE DESIGNED TO REDUCE THE OVERALL IMPACT OF THE BUILT ENVIRONMENT ON HUMAN HEALTH AND THE NATURAL ENVIRONMENT BY:

- **Efficiently** using energy, water and other resources.
- Ensuring occupants **health, safety and comfort**.
- **Reducing** waste, pollution and environmental degradation during the entire life cycle.

(Adapted from U.S. Environmental Protection Agency and US Green Building Council, managing LEED reference scheme)

HOW CAN WE PROVE THE SUSTAINABILITY OF A PROJECT ?

- Certification schemes currently exist and are recognized by the market: LEED, BREEAM, HQE, etc.
- They all include third party assessment and a list of criteria to be fulfilled. Criteria are different from one system to another.
- The existing certifications are recommended by the Green Building Council (GBC), referent body around the world.



BREEAM® CERTIFICATION

10 BREEAM CREDITS
CATEGORIES:

- ▶ Management
- ▶ Health & well-being
- ▶ Energy ✓
- ▶ Transport
- ▶ Materials ✓
- ▶ Waste ✓
- ▶ Water
- ▶ Land Use
- ▶ Ecology
- ▶ Pollution

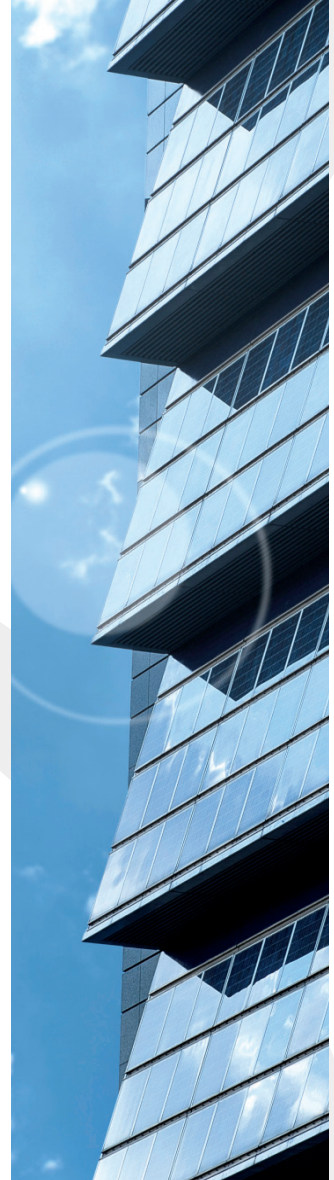
▶ **More info:**
www.breeam.org

LEED CERTIFICATION

FROM 5 TO 12 LEED
CREDITS CATEGORIES:

- ▶ Sustainable sites
- ▶ Water efficiency
- ▶ Energy & atmosphere credits ✓
- ▶ Materials & resources credits ✓
- ▶ Indoor environmental quality credits
- ▶ Innovation (Bonus credits) ✓
- ▶ Regional priority (Bonus credits) ✓
- ▶ Neighbourhood Development (3 categories)
- ▶ Homes (2 categories)

▶ **More info:**
<http://new.usgbc.org>



GET EXTRA CREDITS THANKS TO NEXANS OFFER



REACH & RoHS compliance: Managing substances

ANY PRODUCT PUT ON THE EUROPEAN MARKET MUST COMPLY WITH REACH AND ROHS. THE RESPONSIBILITY OF THE COMPLIANCE IS CARRIED BY THE MANUFACTURER, IMPORTER OR DOWNSTREAM USER.

NEXANS COMMITMENT:

- Strict policies are being implemented to ensure full compliance.
- Installed products are designed to ensure health and safety are not jeopardized.
- Sustainable development is a great opportunity to innovate.

HOW WILL YOU GET INFORMATION FROM NEXANS:

- Specific Eco-Material declaration of products are available on request to give you information on substances and applicable regulation.
- Dedicated Nexans experts are at your disposal to answer any question you may have.



DID YOU KNOW?

WHAT IS REACH ?

The Registration, Evaluation, Authorisation of Chemicals (REACH) refers to the European Union Regulation (1907/2006/EC) of December 2006 which has been called the EU's most complex piece of legislation. It addresses the production and use of chemical substances, and their impact on human health and the environment.

WHAT IS ROHS ?

The term RoHS (Restriction of Hazardous Substances) refers the European Directive 2002/95/EC (RoHS 1) and its recast in Directive 2011/65/EC (RoHS 2) restricting the placing on the market within the European Union of electric and electronic equipment (EEE) which contain more than trace amounts of six specific substances.

Nexans commitment for a sustainable world

BEING RESPONSIBLE BENEFITS EVERYONE

COMMITTED TO RESPONSIBLE BUSINESS WITH CORE VALUES:

- Work globally
- Think customer
- Take action
- Value people
- Commit to excellence
- Be responsible

MANAGING OUR INDUSTRIAL ACTIVITIES TAKING INTO ACCOUNT THE ENVIRONMENT AND THE SAFETY OF EMPLOYEES:

- ISO 14001 certification of our plants in Europe
- Strict environmental management system
- Internal programme for improved safety on site
- Energy efficiency in our plants
- Recycling of waste material along the production process
- Supply chain and logistics centres to optimize transportation and reduce carbon footprint



Nexans offers sustainable solutions all along the project



- Environmental Declaration of products for Green Building certification.
- EcoCalculator for energy efficiency of electrical installation.
- Halogen Free cable for fire safety.



- Environmental Declaration of products.
- Halogen Free cable for fire safety.
- Management of hazardous substances inside product.
- REACH & RoHS compliance.





- Environmental Declaration of products to assess the environmental impact of the construction site.
- Management of waste during construction, collecting drums and providing cables that are recyclable.
- Green drums.



- Optimized electrical installation thanks to the EcoCalculator to provide energy savings.
- Halogen Free cable for fire safety.





Global expert in cables and cabling systems

With energy at the basis of its development, Nexans, worldwide expert in the cable industry, offers an extensive range of cables and cabling solutions. The Group is a global player in the energy transmission and distribution, industry and building markets. Nexans addresses a wide series of market segments: from energy and telecom networks to energy resources (wind turbines, photovoltaic, oil and gas, and mining) to transportation (shipbuilding, aerospace, automotive and automation, and railways). Nexans is a responsible industrial company that regards sustainable development as integral to its global and operational strategy. Continuous innovation in products, solutions and services, employee development and commitment, customer orientation and the introduction of safe industrial processes with limited environmental impact are among the key initiatives that place Nexans at the core of a sustainable future. With an industrial presence in 40 countries and commercial activities worldwide, Nexans employs 25,000 people and had sales in 2012 of nearly 7.2 billion euros. Nexans is listed on NYSE Euronext Paris, compartment A.

For more information, please visit

www.nexans.com/sustainable