



nexus

commercial power and technology

# Nexus EnviroRaw<sup>®</sup>

A sustainable  
alternative to  
traditional fossil-  
based plastics



above-desk | below-desk | beyond-desk

part of the LUCEC<sup>®</sup> plc Group

# What is EnviroRAW<sup>®</sup>?

Traditional plastics are made by using a feedstock of non-renewable fossil-based fuels (crude oil, natural gas or coal), these are known as **Synthetic plastics** or **virgin polyolefins**.

The vast majority of plastic in use today is synthetic because of the ease of manufacturing methods involved in the processing of crude oil.

**However, the growing demand for limited oil-reserves is driving a need for newer plastics from renewable resources such as waste biomass or animal-waste products from the industry.**

**Introducing EnviroRaw<sup>®</sup>**  
- products made of **renewably-sourced bio-based feedstocks** and from **waste and residue streams**:

from vegetable oil production as well as oil waste and residues; the timber industry; the food industry – for instance, used cooking oil.

From a sustainability perspective, re-using waste to manufacture renewable feedstocks further enhances the EnviroRaw<sup>®</sup> appeal

## What are Feedstocks?

Not animal feed!  
They're the base material for producing plastics.

For **fossil-based** this is normally crude oil, natural gas or coal.

**Bio-based** can be made from renewable plant materials such as starch, cellulose, vegetable oils, wood, proteins & polysaccharides.



The Oslo 1011 on-desk range  
utilising renewably sourced polyolefins  
from used rapeseed oil feedstock

We are accelerating transformation to a circular economy, producing products that can be traced from the beginning of the supply chain all the way through to finished products in the Nexus commercial power range.

To lower our environmental footprint and take a stand against climate change we started to source polyolefins from renewably sourced feedstock using a process called the **Mass Balance Model**.

It works by partially replacing fossil feedstock with renewably sourced feedstock, allowing us to make ISCC certified polyolefins without reducing quality or safety standards – all while minimising CO2 emissions.

The ISCC PLUS certification means our materials can be traced all the way through the chain of custody, making it easier to stay on top of our sustainability targets and changing legislation.



By using the mass-balance model we can offer the best of both worlds, we can meet the quality and sustainable standards that you, our customers, expect, whilst contributing to a better future for us all.

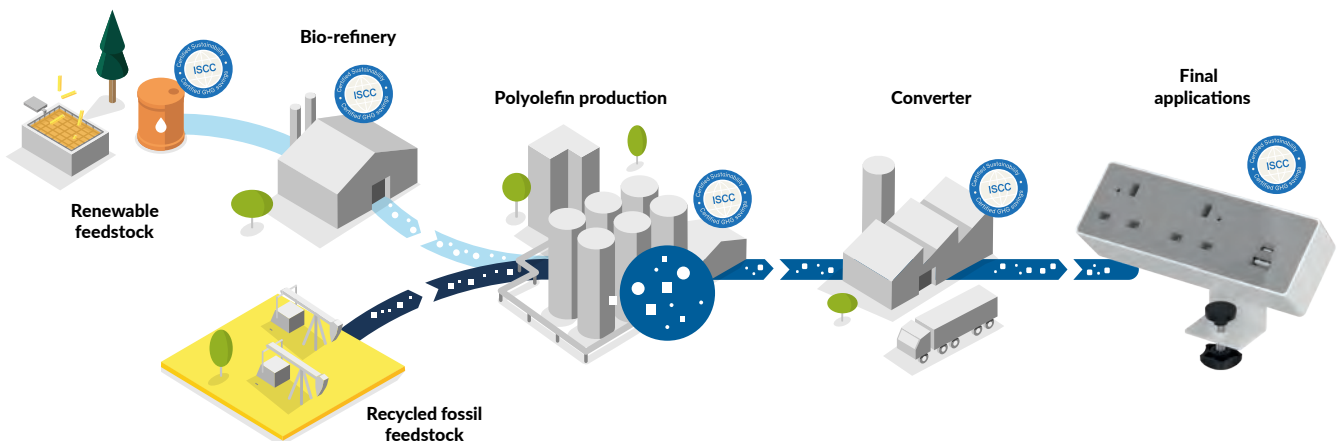
# The Mass Balance Model

We still need to use plastic for its many properties and benefits. But we need these benefits to come with no cost to the planet. To achieve this, we must make and use plastics more sustainably, and ultimately in more circular ways, using recycled and renewable feedstocks.

Chain of Custody models can help move us forward by increasing the proportions of sustainable feedstocks we use. And right now, we believe the best chain of custody model is with Mass Balance. It offers us the greatest set of benefits and the best path to visible progress for circular plastics, while building stakeholder trust in the right Chain of Custody model. This will help us to track, trace and verify the sustainability of those feedstocks throughout the chain to make it more visible and tangible.

## How does it work?

Mass Balance works by partially replacing fossil feedstock with sustainably sourced alternative feedstocks. It allows us to use ISCC certified sustainable polyolefins without reducing quality or safety standards. All while minimising CO2 emissions and helping to reduce plastic waste.



*“Our raw materials are made using sustainably sourced renewable polymers derived from waste and residue vegetable oils, such as used cooking oil and residues from vegetable oil processing”*

# What is ISCC and ISCC PLUS Certification?

The International Sustainability and Carbon Certification (ISCC) is an independent multi-stakeholder initiative and leading certification system supporting sustainable, fully traceable, deforestation-free and climate-friendly supply chains.

With their certification we contribute to environmentally, socially and economically sustainable production.

ISCC PLUS certification is a voluntary scheme that is applicable for the bio-economy and circular economy for food, feed, chemicals, plastics, packaging, textiles and renewable feedstock derived from a process using renewable energy sources.



## Our promise to you...

### Innovation

We're always looking for new ways we can contribute to the circular economy and produce reliable materials that don't cost the earth.

### Quality & Safety

We use sustainable polyolefins without reducing quality or safety standards.

### Renewable Feedstock

Our sustainability aim is to decouple from fossil resources by using renewable feedstock from waste and residue streams.

### Pro-Environmental

We want to lower our environmental footprint and with renewable polyolefins we act against climate change.

### Visible Progress

By using the Mass Balance Model, we can offer quality and sustainable standards you expect, while progressing the transition to a circular future.

# Adopting new innovations, technologies & materials

You may also be interested in our NexLife programme which seeks to promote circularity through innovation.



We give **waste materials a new life** encasing our range of internal power modules. We can even work with customers to collect and process their waste to make power modules which we supply back to them.

**Great examples on this innovative approach include casings made from recycled cork, retired fishing nets, bamboo wastage - even recycled coffee grounds!**





For more information and to find out how Nexus  
can help reduce your carbon footprint email us at  
[contact@nexus.uk](mailto:contact@nexus.uk)

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