



WOODEN PLATFORMS

- Sustainable, Durable and Cost-Competitive Deck Solutions



Reusable Components



Sustainable Wood



Global Supply Chain



Resolux Group

A Gexpro Services Company



Gexpro[®]
Services

Wooden Platforms for Wind Turbines

- STRENGTH, SUSTAINABILITY AND PERFORMANCE

Platforms for internal use in wind turbines are one of Resolux Group's product offerings, demonstrating our commitment to innovation and environmental stewardship. Designed as a sustainable alternative to traditional steel and aluminium solutions, our wooden platforms help support greener practices in wind turbine production while contributing to a reduced climate impact.

Engineered for excellence, the wooden platforms combine lightweight construction with exceptional strength and stability, enabling rapid installation and reliable long-term performance. Their bonded structure is crafted from sustainably sourced softwood and hardwood veneers and weather-resistant adhesive, providing long-term durability and performance designed to meet the demanding conditions within wind turbines.

Suitable for installation throughout the entire wind turbine, from tower to nacelle, the platforms integrate seamlessly into various applications while delivering both structural performance and refined aesthetics.

Sustainability remains at the core of the design. The wood is sourced from responsibly managed forests and certified by PEFC and FSC, reflecting Resolux Group's commitment to ethical sourcing and environmentally conscious solutions. Built from CE-marked components, the platforms deliver high performance while offering a bio-based alternative that can significantly reduce CO₂ emissions compared to conventional materials.

By combining durability, lightweight performance, and sustainability, Resolux Group's wooden platforms represent a smarter choice for a greener future.

THE SUPERIOR ADVANTAGES OF WOODEN PLATFORMS

Lower Carbon Footprint:

Choose materials that naturally reduce CO₂ emissions
- wood even captures carbon during its lifecycle.

Cost-Competitive Excellence:

Achieve premium quality and performance at a competitive cost compared to galvanized steel or aluminum platforms.

Easier Installation:

Easy handling and rapid installation speed up your entire build process.

Lightweight Strength:

Enjoy a lighter structure without sacrificing strength, durability, or performance.

Secure Supply Chain:

Benefit from a more resilient and reliable supply chain compared to steel and aluminum alternatives.

Optimized for Scale:

Wooden platforms enable easy ramp-up and cost efficiencies for serial production.

WOODEN PLATFORMS

by Resolux Group

DRIVING SUSTAINABLE INNOVATION IN WIND ENERGY

The geopolitical challenges of recent years have reinforced the urgent need for renewable energy solutions, with wind energy now a key focus on the global political agenda. At Resolux Group, we are committed to reducing the climate impact of wind energy production. To lead this transition, we are intensifying our efforts to prioritize sustainable product development across our portfolio.

Through a strong focus on climate action and the use of the GHG Protocol, we are driving data-driven initiatives that actively lower our environmental footprint. As a leading distribution, kitting, and assembly partner, Resolux Group has reimaged its product offerings - developing CO₂-reduced solutions that set a new standard for sustainability in the industry.

The Function and Advantages of Wooden Platforms

SUPERIOR STRUCTURAL STRENGTH: Engineered exceptional strength and dimensional stability, thanks to a homogeneous, bonded wood composition.

EXCEPTIONAL SERVICE LIFE: Designed to match the lifespan of the wind turbine - targeting more than 20 years of reliable performance without significant degradation or deterioration.

PRECISION MANUFACTURING: Crafted from 1.5 mm birch or 3 mm rotary-peeled, strength-graded spruce veneers, bonded with weather- and boil-resistant adhesives for maximum durability.

SUSTAINABLE RAW MATERIALS: Sustainably sourced wood provides a renewable alternative to conventional materials while supporting a lower environmental impact.

ETHICAL COMMITMENT: Resolux Group ensures a conflict-free supply chain, excluding Russian veneer and birch plywood products.

HIGH-PERFORMANCE ALTERNATIVE: Wood meets the platform's performance requirements while offering a sustainable alternative.



SUSTAINABILITY

At Resolux Group, our objective is to reduce the climate impact of wind energy production by prioritizing environmentally sustainable product development.

The introduction of solutions such as wooden platforms reflects Resolux Group's commitment to environmental stewardship.

Sustainability at the Core

NATURALLY SUSTAINABLE MATERIAL: Wood is an inherently sustainable choice, with the potential for significantly lower carbon emissions during production than traditional materials.

LONG-TERM CARBON STORAGE: Our wooden platforms store biogenic carbon throughout their service life, helping to reduce their overall climate impact.

RENEWABLE, RECYCLABLE, REUSABLE: Sourced from sustainably managed forests, wood naturally captures CO₂ as trees grow and offers the advantages of being renewable, recyclable, and reusable.

RESPONSIBLE END-OF-LIFE SOLUTIONS: After the wind turbine's service life, our wooden platforms can be recycled, reused where appropriate, or converted into bioenergy, supporting more responsible end-of-life management.

At Resolux Group, we are committed to using only certified wood in our wooden platforms, ensuring that our products support responsible and sustainable forest management. Wood is a renewable natural resource, but only when forests are managed responsibly. Certification is essential to us, as it provides assurance that our materials originate from responsibly managed sources. PEFC and FSC certifications promote responsible forest management, including the protection of biodiversity and water resources and consideration of local communities, helping to safeguard forests for future generations.

Our Commitment Covers Every Stage:

PRODUCT: Sustainably sourced wood forms the foundation of our high-performance platforms.

ENERGY: Wooden platforms can contribute to reducing the overall carbon footprint of wind turbine production.

REUSE: After their service life, the platforms can be recycled or repurposed into bioenergy, extending their environmental contribution. Today, wind power and sustainable construction materials helping to reduce global CO₂ emissions, and we are proud to be part of that change.



WOODEN PLATFORMS

by Resolux Group

UN Sustainable Development Goals (SDGs)



SDG12: Supporting Responsible Consumption and Production

With Wooden Platforms, Resolux Group proudly supports the United Nations Sustainable Development Goal 12: **Responsible Consumption and Production**.

This global goal focuses on promoting the responsible use of resources and reducing environmental impacts, a responsibility we are committed to embracing. By choosing renewable natural materials such as wood, we help reduce reliance on non-renewable resources while supporting lower-carbon solutions.

Through responsible material sourcing and sustainable production practices, wooden platforms are designed not only to meet performance requirements but also to support efforts to reduce environmental and climate impacts.

By integrating sustainability into an established product solution, we demonstrate how innovation and environmental responsibility can go hand in hand.

AVOIDED EMISSIONS FOR WOODEN PLATFORMS

A Smarter Choice for the Climate

Our CO₂ calculations show that using wooden platforms may reduce CO₂ emissions by up to **94%** per cubic metre compared with platforms made from new aluminium or steel. While the use of recycled metals can reduce this difference, the overall emissions savings can remain substantial, depending on the material and recycled content being compared.

Beyond emissions reduction, wood stores biogenic carbon absorbed from the atmosphere during tree growth. This carbon can remain stored in the wooden platform throughout its service life.

At the end of its service life, wood can be recycled, reused where appropriate, or converted into bioenergy, supporting responsible end-of-life management.

CO₂ Savings: CO₂ emissions savings may reach up to 94% when wood is used instead of new steel or new aluminium, based on the CEMAsys 2024 calculations.

Report

To ensure credible and transparent data on the CO₂ savings associated with replacing aluminium or steel with wooden platforms, CEMAsys, an independent third party, conducted a carbon footprint analysis. The analysis concluded the following:

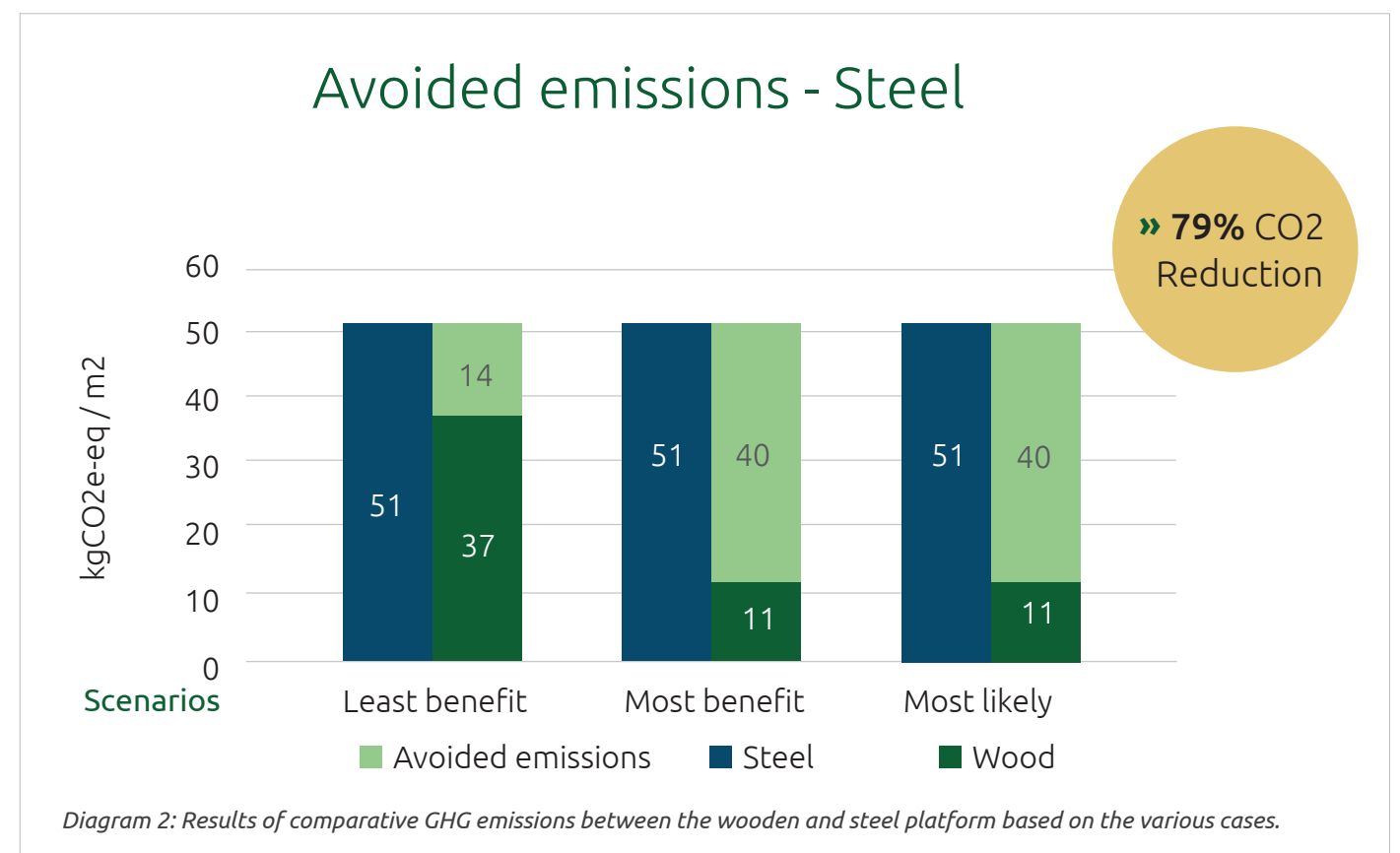
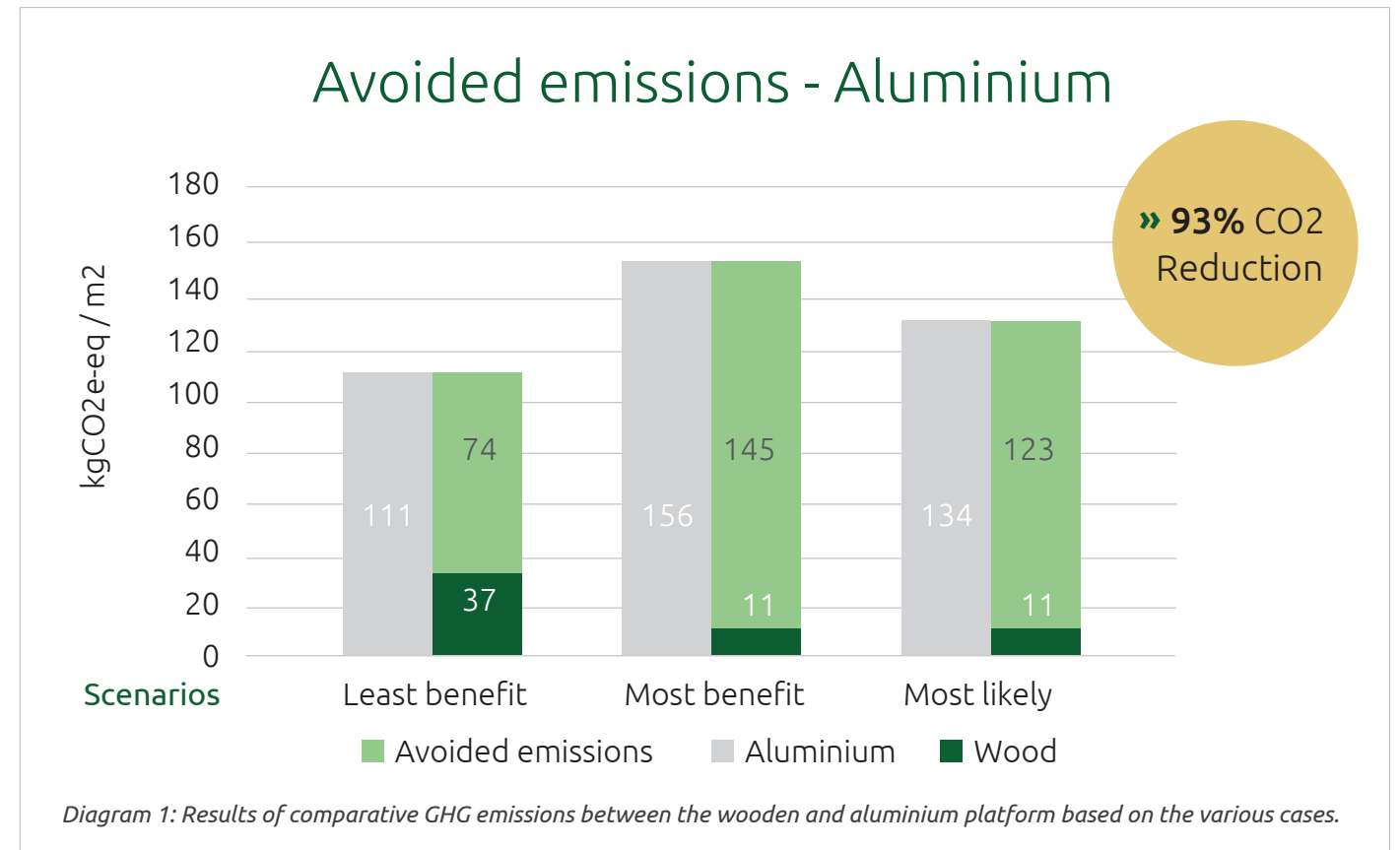
» In conclusion, this analysis confirms that Resolux Group's wooden platform offers a more environmentally friendly option compared with aluminium and steel platforms in terms of greenhouse gas emissions. The study consistently shows that the wooden platform has a lower greenhouse gas emissions footprint than its metal counterparts, supporting Resolux Group's commitment to sustainability in wind turbine production.

Source: CEMAsys 2024 Report



WOODEN PLATFORMS

by Resolux Group



Source: CEMAsys 2024 Report

Choosing Resolux Group's Wooden Platforms means choosing innovation, responsibility, and a forward-looking solution.



LOWER CO₂ EMISSIONS:

-  Birch plywood and softwood-based LVL may offer up to 80% lower CO₂ emissions compared with aluminium and steel, depending on the materials and assumptions used in the comparison.
-  Renewable Resource: Sourced from PEFC- and FSC-certified responsibly managed forests.
-  Lower-Carbon alternative: Aluminium and steel generally have higher production-related carbon emissions and do not provide the same biogenic carbon storage benefits as wood.
-  Carbon Storage: Birch plywood and softwood-based LVL stores biogenic carbon absorbed during tree growth, which can remain stored throughout the platform's service life.
-  End-of-life advantage: Recyclable and convertible to bioenergy, supporting responsible end-of-life management.

Today, Frontier Technologies, Resolux Group & Gexpro Services go a step further.



Frontier Technologies
5980 I-10 Industrial Park
Theodore, AL 36582 · USA
sales@gexproservices.com



Resolux Group
Slipshavnsvej 2
5800 Nyborg · Denmark
info@resoluxgroup.com



Gexpro Services Headquarters
9500 N. Royal Ln., Suite 130
Irving, TX 75063 · USA
sales@gexproservices.com