

CO2 IS THE NEW CURRENCY.

How circular
buildings
create value
from day one.

WICONA®

By  Hydro



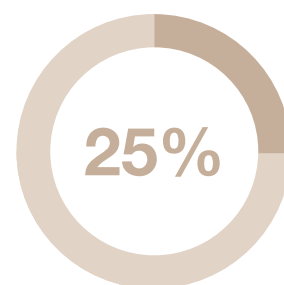
FACING THE CHALLENGES OF DECARBONISATION TOGETHER. ■

International climate efforts, tightening regulations, and emerging carbon taxonomies are rapidly reshaping priorities across investors, building owners, and contractors. The building and construction sector accounts for 39%¹ of global energy-related CO₂ emissions – both embodied in materials and generated during operation.

Effectively managing a building's carbon footprint throughout its entire lifecycle is now a core challenge in the decarbonisation of real estate assets – and crucial for protecting long-term investment value.

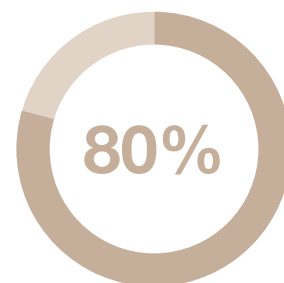
Invest in High-Performance, Low-Carbon Products

The façade accounts for up to 25%² of a building's total carbon footprint. Investing in low-carbon products that combine outstanding thermal performance with long-lasting durability and low maintenance requirements is key.



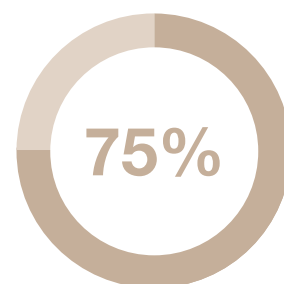
Retrofit the Existing Building Stock

80%³ of the buildings that will be in use by 2050 already exist today. Upgrading these structures is essential to reduce their energy consumption, enhance performance, and ensure alignment with the EU Green Deal and national climate targets.



Invest in Circular Building Strategies

75%⁴ of building materials still end up in landfills or are incinerated after demolition or renovation – a massive loss of value and resources. Circularity is becoming a strategic and regulatory priority.



The façade plays a crucial role to a building's total carbon footprint.



© Spotmatik Limited

Why choose WICONA as your partner to implement a decarbonisation strategy for your property portfolio – and protect your investments from stranded asset risk?

We use circular materials in our aluminium solutions



We design durable, high-performance aluminium solutions



We ensure circularity by recycling end-of-life materials



**PROVEN
CIRCULARITY**

TRANSFORM CO₂ CHALLENGES INTO ASSETS.



WICONA's solutions and services enable you to:

Access the best financing

Less carbon, lower costs, and more capital – all through smart, sustainable choices.

Optimise operational performance

Higher efficiency, lower costs, a resilient asset ready for future challenges.

Enhance existing assets while controlling investments

Build smart on what already exists – and turn renovation into a strategic investment.

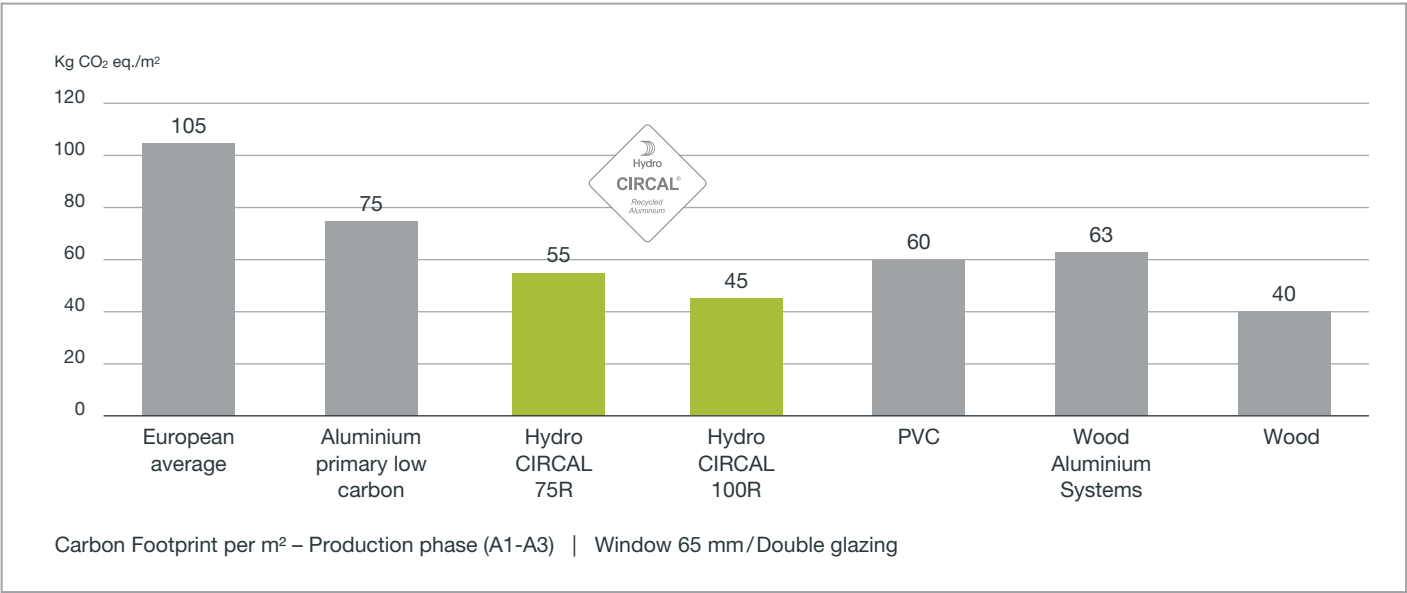
Combine environmental impact with economic performance

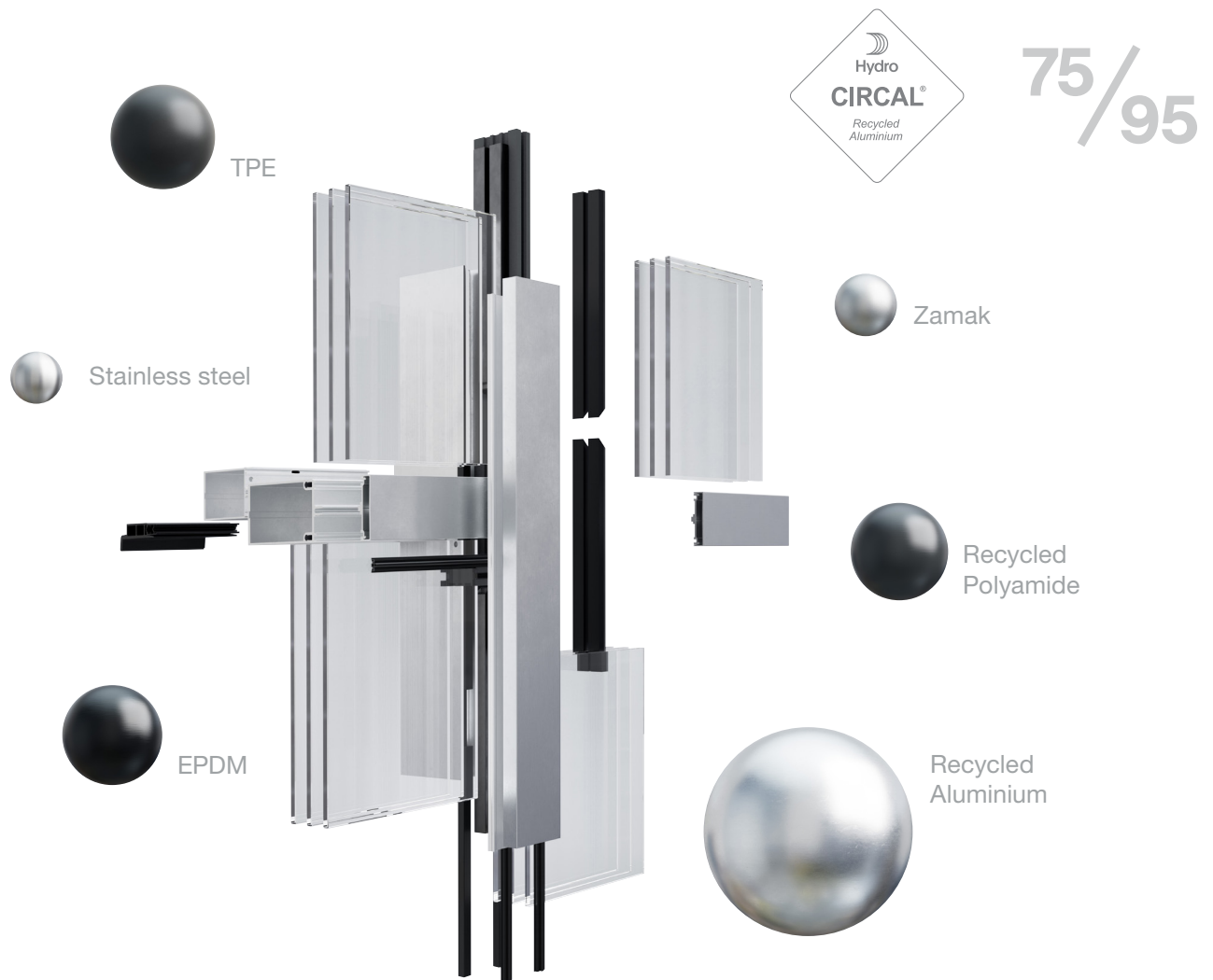
Boost the attractiveness of your property.

UNLOCKING THE VALUE OF LOW-CARBON INVESTMENT. ■

Aligning your property with the EU Taxonomy, ESG criteria, and national green building standards unlocks access to a wide range of preferential financing options.

WICONA's low-carbon system solutions can cut up to 50% of envelope-related CO₂ emissions – a critical advantage, as the envelope accounts for up to 25% of a building's total construction emissions.





How does WICONA drastically reduce the embodied carbon of your property?

Optimised production processes run by decarbonised electricity & fully integrated supply chain

We approach sustainability holistically; therefore, we go beyond products to reduce the upfront and embodied emissions of the building's carbon footprint.

By improving our operations, we are actively reducing our footprint by cutting CO₂ emissions at our sites while also lowering water consumption and waste.

Low-carbon solutions made of Hydro CIRCAL aluminium

All our window, door, and façade systems are made from low-carbon aluminum containing at least 75% post-consumer scrap. This aluminium has a certified carbon footprint of just 1.9 kg CO₂/kg of aluminium – among the lowest in the industry.

For even greater impact, you can choose Hydro CIRCAL 100R, made with up to 100% post-consumer scrap and a footprint of less than 0.5 kg CO₂ per kg of aluminium. With Hydro CIRCAL, you can significantly reduce the embodied carbon of your building envelope across all projects.

Low-carbon solutions made of recycled and recyclable materials

Aluminium is key, but we go one step beyond, taking a holistic approach to all materials used in our system solutions.

Our systems are made from materials that are 75% recycled and 95% recyclable. This allows us to significantly lower the CO₂ footprint of our solutions.

Proven sustainability puts you in a strong position to achieve top ratings in leading green building certifications.



Circular products

All our new products are Cradle to Cradle Certified®, and we provide a Health Product Declaration (HPD) for our new façade system. In addition, we conduct Volatile Organic Compound (VOC) emission measurements to ensure our products contribute to healthy indoor air quality and meet the strictest environmental standards.

By manufacturing locally and certifying our products, we guarantee both the material health and recyclability of our solutions – helping you design buildings that are safer, more sustainable, and future-ready.



Certified carbon footprint

EN 15804 + A2 EPDs available for all our new products.

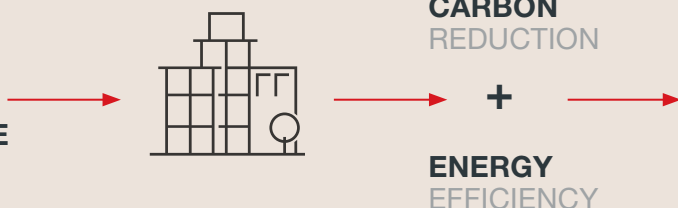
Our **WICTOP** quotation software comes with a tool enabling you to generate **dynamic EPDs** (Environmental Product Declaration) for your projects and **dynamic carbon footprint calculation**.

CIRCULAR
MATERIAL

RECYCLED
MATERIAL

RESPONSIBLE
SOURCING

ECO
DESIGN



Our products and solutions unlock access to green loans, climate-linked funding, and sustainability-driven investments boosting your asset's market value and financial strength.



CO₂-saving:

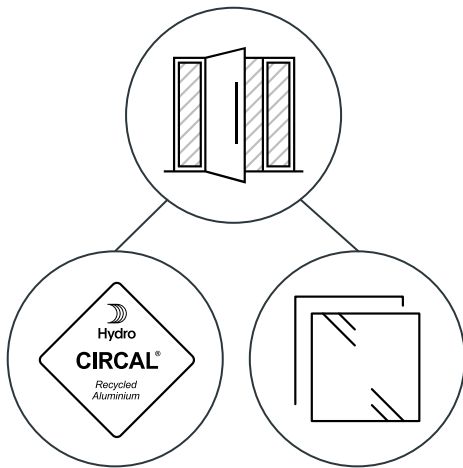
-598 t

thanks to our WICTEC façade
made of **Hydro CIRCAL 100R**
aluminium

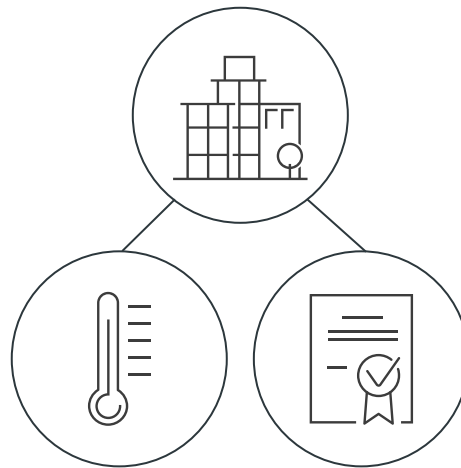
REDUCING OPERATIONAL COSTS ACROSS THE LIFECYCLE.

The new generation of products.

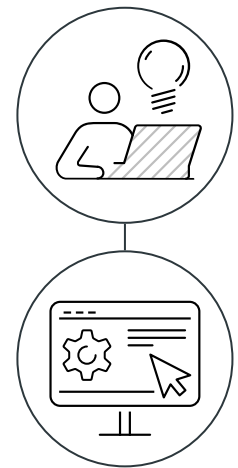
Lowering a building's energy demand from day one is key – which is why WICONA's new generation products meet the highest standards for thermal insulation, energy performance, and low maintenance.



We use **circular material** to **minimise our products footprint** and to **reduce the waste of our industry**.



We design **high-performance products** that drastically reduce the **energy consumption** of the building envelope through **outstanding thermal performances** – **cutting emissions and operating costs**.



We design today **light, performant and long-lasting products** easily dismantable for tomorrow.

Low Maintenance – long-term asset.

Aluminium building systems offer outstanding durability with minimal maintenance requirements. Naturally resistant to corrosion, UV exposure, and weathering, aluminium won't warp, crack, or degrade – even in the harshest environments. Unlike materials that need regular treatment, repainting, or protective coatings, aluminium maintains its structural and visual performance with very limited upkeep. This long-lasting reliability reduces maintenance costs, extends the life cycle of the façade, and ensures consistent performance over decades – making it a smart, cost-effective choice for long-term building value.



© mediashots

Smart lifecycle tracking with FRAME ID: Enhancing product longevity, sustainability, and value

In addition to energy savings, proper maintenance also contributes to a strong operational carbon balance.

With FRAME ID, maintenance and retrofitting of individual components becomes smart and simple. Investors benefit from instant access to detailed material specifications and carbon footprint data, ensuring transparency and compliance with ESG requirements.

By seamlessly connecting manufacturing, installation, and building operations, FRAME ID supports remote diagnostics and maintenance. This not only reduces the need for costly on-site interventions but also extends the lifespan of components – helping to lower operational emissions and protect long-term asset value.



ENHANCE EXISTING ASSETS WHILE CONTROLLING INVESTMENTS. ■

By 2050, 80% of the buildings in use already exist and urgently require sustainable retrofitting to meet climate targets and protect asset value. Retrofitting is one of the most effective levers for reducing the carbon footprint of the built environment and offers strong financial returns.

Integrating circular, low-carbon façade solutions into existing buildings limits the need for new raw materials, enables the reuse of valuable components, and benefits from certified recovery and recycling processes. This strategy leads to lower initial investments, optimised amortisation

over time, and reinforces the asset's sustainable positioning – a key factor for future valuation and regulatory compliance. Building smart on what already exists turns retrofitting into a strategic investment.

WICONA enables this transformation

We manage the entire recycling process in collaboration with local recovery experts. At the end of a building's lifecycle, we take back existing systems to recover their residual value. Key materials – including aluminium, polyamide,

EPDM, and glass – are carefully extracted, documented, and reintegrated into new high-performance products, closing the loop and driving circularity in construction.

This all-in-one solution is unmatched in the industry. By returning old aluminium systems, you not only ensure high-quality recycling but also turn deconstruction waste into both a financial return and an environmental benefit.



© mediashots

1. DECONSTRUCT

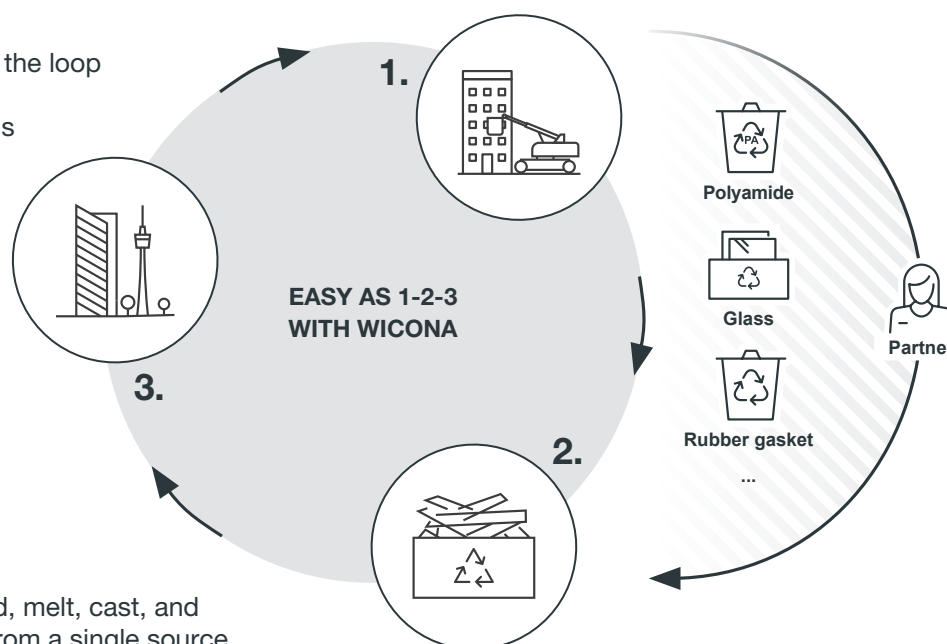
- City as a material warehouse
- Disassembly of end-of-life materials from existing buildings
- Separation of raw materials (Aluminium, Glass, Polyamide, EPDM Seals)

3. REBUILD

- We are the first to close the loop
- 75% recycled and 95% recyclable materials

2. RECYCLE

- We sort, shred, melt, cast, and extrude – all from a single source
- Our partners take care of the other important raw materials
- Our contribution to decarbonisation



We offer an all-in-one solution for material recovery, recycling, and supply. By taking back and processing old aluminium systems from existing buildings, we produce high-quality recycled products – and significantly increase the end-of-life value of the materials used in our systems.

Omega-Haus Office building



CO₂-saving*:

-651 t

thanks to our WICTEC façade
and WICLINE windows
made of **Hydro CIRCAL 75R**
aluminium
(*expected)



Case study – Circular retrofitting

Omega Haus, a landmark office complex in Offenbach, Germany, required a major upgrade to meet today's energy and workplace standards.

A key innovation in the façade upgrade was a WICONA-developed window replacement concept, which replaces only the infills and operable units while preserving the existing frame. This targeted intervention significantly enhanced thermal insulation and building usability without costly or major structural work. The result: a sustainable, fast, and cost-efficient alternative to full façade replacement - ideal for upgrading buildings with minimal intervention.

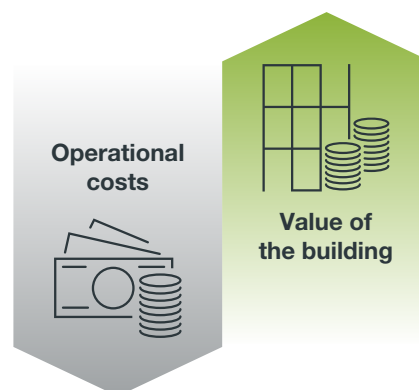
Moreover, WICONA, Saint-Gobain and Semperit, joined forces by successfully bringing their end-of-life materials back into the loop in a remarkable example of circular construction.



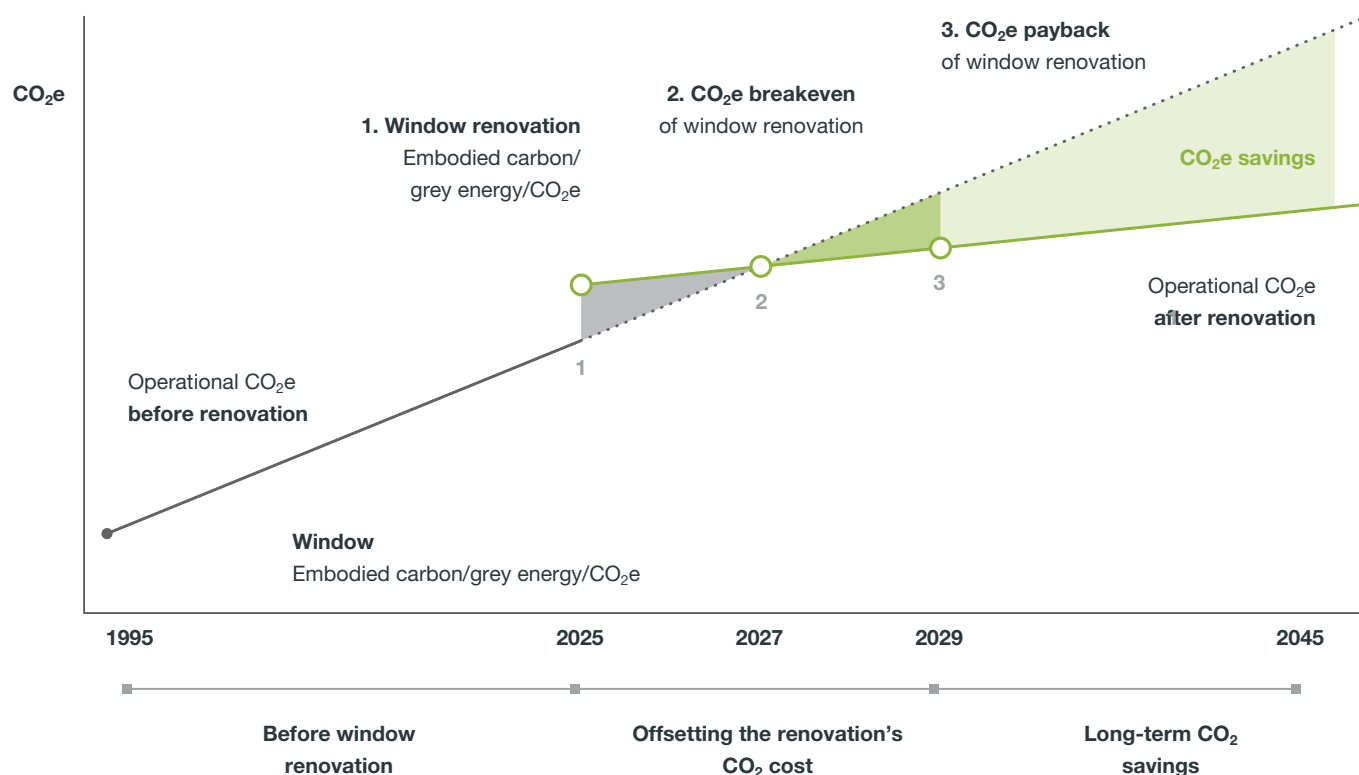
Rapid return on investment

At Omega Haus, we proved that retrofitting drives profitability without compromise.

Using WICONA's circular products, significant CO₂ savings are realized within 2 years, and the measures are fully amortized after 4 years.



CO₂e amortisation of the customised retrofit



Bespoke projects require qualified specialist partners. WICONA collaborates closely with you to develop tailored solutions – that are both cost-effective and thermally efficient – and ensures the expertise needed for successful project delivery at every level.

COMBINE ENVIRONMENTAL IMPACT WITH ECONOMIC PERFORMANCE.



CO₂-saving:

-1254 t

thanks to our WICTEC façade
made of **Hydro CIRCAL 75R**
aluminium

Carbon is capital. Circular design is not just the future, it's today's competitive advantage. By choosing low-carbon, circular façade solutions, you create future-proof, high-performing assets that drive long-term value and environmental impact.

The benefits go far beyond sustainability: You unlock the full economic potential of genuine, traceable circularity – including higher asset valuations, reduced lifecycle costs, access to green financing, and alignment with the EU Taxonomy.

Sustainable buildings rent faster, sell for higher prices, and have greater longevity.

+5%

Increased rental premiums
+5% rental income

+4%

Retain/attract clients, occupiers
and talent
+4% occupancy

+16-25%

Maintain value in downturn
+16-25% property values

-5%

Efficiency/reduced regulatory risk
-5% operating costs

KEY TAKEAWAYS.

1. WICONA's certified low-carbon façade solutions puts you in a strong position to achieve top ratings in leading green building certifications.

2. WICONA's low-carbon façade solutions can cut up to 50% of envelope-related CO2 emissions:

- We use circular materials in our aluminium solutions.
- We design durable, high-performance aluminium solutions.
- We ensure circularity by recycling end-of-life materials.

3. WICONA is your trusted partner for new builds and renovation.

From new buildings and full circular renovations to partial upgrades of your properties, we bring the expertise, technology, and flexibility to develop tailored solutions that are both cost-effective and thermally efficient.

Ready to reduce
your building's CO2 footprint?

Contact us today
to discuss your options.

WICONA
Hydro Building Systems Germany GmbH
Einsteinstraße 61
89077 Ulm, Germany

Marcel Bartsch
Director Business Development

M +49 170 9991807
marcel.bartsch@hydro.com

WICONA®
TECHNIK FÜR IDEEN

www.wicona.com