

IKEA Switzerland Treated Wood Waste

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Tagline

IKEA Switzerland wants to increase the operational recycling rate and explores solutions for upcycling, recycling, and downcycling treated wood waste for industrial use.

Description

While IKEA Switzerland advances towards its goal of fully integrating circular design into all its products, recycling remains crucial in an immediate environmental strategy. Currently, recycling serves as an essential bridge between present practices and future ambitions, helping to manage waste effectively and reduce the consumption of raw materials. It allows to conserve natural resources, minimize environmental footprints, and mitigate the impacts of climate change while new sustainable design and manufacturing processes are being developed and implemented. This transitional strategy is vital as it maintains sustainability momentum and fosters a culture of resource consciousness, preparing us for a smoother transition to a fully circular economy model that IKEA Switzerland is committed to achieving.

From the above-mentioned perspective, IKEA Switzerland is seeking groundbreaking solutions to address one of the most pressing sustainability challenges today: the repurposing and recycling of treated wood waste. This initiative is not just about waste management - it's about reimagining waste as a resource, driving innovation, and fostering a more sustainable, circular economy.

Partner

IKEA Switzerland

Technologies

Advanced Sorting Technologies

Robotic Process Automation (RPA)

Material Recovery Facilities (MRF) Technology

Biochemical Processing

Thermal Treatment Technologies

Eco-design Software

Digital Platforms for Supply Chain Management

Blockchain for Resource Tracking

Artificial Intelligence and Machine Learning

Additive Manufacturing (3D Printing)

Advanced Recycling Solutions

Collaboration Areas

- A - Material Recovery
- B - New Processes and Materials
- C - Technology and Digital Tools

Collaboration Opportunities

A - Material Recovery

1. Waste-to-value solutions for wood waste recycling and upcycling
2. Solutions not requiring wood waste sorting (e.g., mixed wood waste management)
3. Downcycling for highly scalable industrial or other sectors use (avoiding virgin wood use)
4. Other

B - New Processes and Materials

1. Chemical substances removal from treated wood waste (e.g., bioremediation, chemical extraction, enzyme-aided decontamination)
2. Transforming wood waste into new non-wood furniture components or new materials (like wood densification and bioplastic composites)
3. Other

C - Technology and Digital Tools

1. AI-powered wood waste sorting or furniture recognition
2. In-store wood waste identification to facilitate sorting (e.g., portable scanners)
3. Technologies and automation for furniture disassembling
4. Other

Collaboration Opportunities Summary

A - Material Recovery	B - New Processes and Materials	C - Technology and Digital Tools
<p>A1 - Waste-to-value solutions for wood waste recycling and upcycling</p> <p>A2 - Solutions not requiring wood waste sorting (e.g., mixed wood waste management)</p>	<p>B1 - Chemical substances removal from treated wood waste (e.g., bioremediation, chemical extraction, enzyme-aided decontamination)</p> <p>B2 - Transforming wood waste into new non-wood furniture</p>	<p>C1 - AI-powered wood waste sorting or furniture recognition</p> <p>C2 - In-store wood waste identification to facilitate sorting (e.g., portable scanners)</p> <p>C3 - Technologies and</p>

<p>A3 - Downcycling for highly scalable industrial or other sectors use (avoiding virgin wood use)</p> <p>A4 - Other</p>	<p>components or new materials (like wood densification and bioplastic composites)</p> <p>B3 - Other</p>	<p>automation for furniture disassembling</p> <p>C4 - Other</p>
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