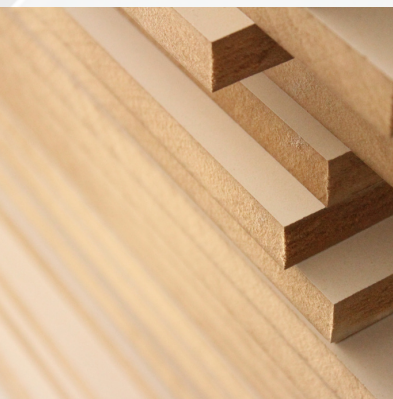


Transforming MDF Waste

The sustainable solution for high-quality wood fibre recovery





Recycling MDF waste is no longer just an environmental responsibility, it is a financial and operational necessity.

With Europe projected to produce 38% of global MDF waste within the next decade, the challenge of managing this waste responsibly is critical.

MDF Recovery's innovative technology transforms MDF waste into high-quality wood fibres, offering businesses a sustainable and cost-effective alternative to landfilling and incineration.

Our Technology

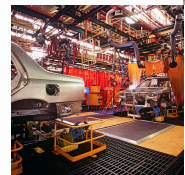
MDF Recovery has pioneered the first novel technology to recycle MDF waste.

This ground-breaking process reclaims high-quality wood fibres without compromising their structural integrity, offering manufacturers a sustainable resource for reuse in various applications.

The technology ensures a low-emission, cost-efficient solution to tackle one of the wood industry's biggest challenges.

MDFR Fact File

Recycled fibres
can be produced
for half the cost
of buying new
virgin fibres



Efficiency and Sustainability

MDF Recovery uses a proprietary ohmic heating process to break down MDF waste into its core components. This advanced technique:

- | | |
|---|---|
| 1 | Separates fibres gently without using harsh chemicals or causing degradation. |
| 2 | Minimises harmful emissions, avoiding the release of formaldehyde or volatile organic compounds (VOCs) |
| 3 | Is low energy consumption, delivering high recovery rates at a lower environmental and financial cost. |
| 4 | The fibres retain durability and versatility needed for reintegration into manufacturing or other applications. |

A SOFTER APPROACH

Unlike aggressive chemical or mechanical recycling methods, MDF Recovery's technology takes a softer approach.

This innovative method operates with low energy consumption, delivering cost-efficiency and environmental benefits.

By significantly reducing harmful emissions, including formaldehyde and volatile organic compounds (VOCs), it ensures safety and compliance with strict regulatory standards.

The process preserves the integrity of the recovered fibres ensuring that the fibres are suitable for reuse in demanding applications while reducing environmental impact.

Versatility and Quality

Our process produces fibres that meet stringent quality standards, offering manufacturers a sustainable alternative to virgin materials.

Key attributes of the wood fibres include:

Strength

Overall performance of wood fibres recovered during the process are comparable in strength to virgin fibres from usual sources

Reliability

Recovered fibres have consistent fibre length and width distributions and a minimal level of contamination

Environmentally friendly

Wood fibres recovered are free from chemical contaminants, making them safer for various applications.

TEST RESULTS

Panels have been produced using different percentages of recovered wood fibres which showed:

- There was no colour variation
- Mechanical properties did not vary significantly

	Recycling content %		Raw density	IB
	Virgin wood	Recycled	Kg/m3	N/mm2
1	100	0	785	0,67
2	85	15	802	0,69
3	70	30	806	0,71
4	50	50	794	0,65
5	0	100	788	0,66

Multiple Uses

Recovered fibres can be seamlessly reintegrated into MDF manufacturing, significantly reducing the need for virgin timber and lowering production costs.

In addition, recycled fibres from MDF Recovery's process provide wide-ranging exciting new use opportunities for businesses.

INSULATION MATERIALS

Loose fill or batt insulation for energy efficient buildings, factory finished or installed on site.



COMPOSITE PRODUCTS

Recovered wood fibres can be incorporated into new, sustainable materials for construction helping them meet environmental targets.

BIO-BASED PLASTICS

Expanding green manufacturing options for use in products such as decking and cladding.



These applications open new revenue streams, helping businesses capitalise on growing demand for sustainable products.

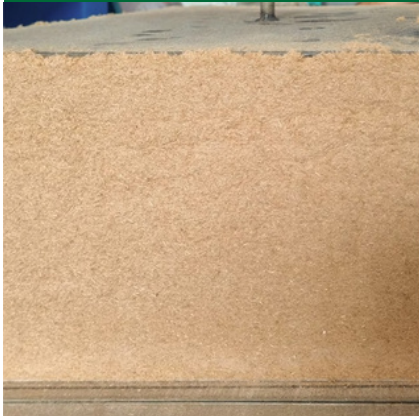
Financial Sense

Recycling MDF is highly cost-effective compared to traditional disposal methods

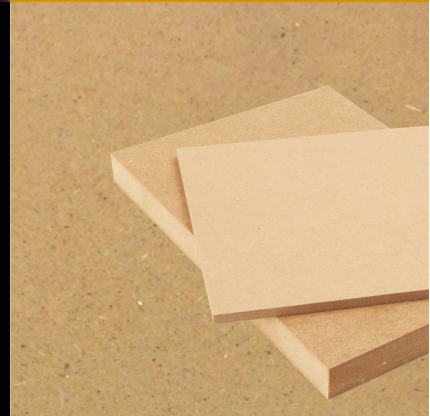
**Save up to
50% on
virgin
wood fibre
costs**



**Typical
ROI within
3.5 years**



**Reduced
landfill and
disposal
costs**



**New revenue
opportunities
through
product
diversity**



**Avoiding
government
penalties for
not hitting
sustainability
targets**

An affordable MDF recycling process
that is commercially viable!



Let's shape the
future of MDF
recycling together

Working Together

MDF Recovery's technology represents the future of sustainable manufacturing, by transforming MDF waste into high-quality wood fibres, businesses can reduce costs, minimise environmental impact, and unlock new revenue opportunities.

Discover how MDF Recovery can help you meet your sustainability goals.

Contact us today for further information on our technology, applications, and turnkey solutions.

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