

How can we wake up to a better tomorrow?

The RENUVA[™] Mattress Recycling Program - Achieving circularity across an industry



The RENUVA[™] Mattress Recycling Program is a circular economy program from Dow, which will implement the first industrial scale reactor to convert end-of-life polyurethane mattresses back to their raw material – polyol.

Why are mattresses causing some to lose sleep?



Every year, around **30 million** mattresses are thrown away in Europe*



If they were all stacked up, the pile would be **678 times** the height of Mount Everest**

* "An overview of possible end-of-life solutions", Europur, 2017

** Assuming an average mattress height of 20 cm. Height of Mount Everest is 8848m

Regulation impact



EU Waste regulation:

65%

Municipal waste recycled by **2030**

EU Green Deal

The Circular Economy Action Plan 2020:

- Reduce the EU's consumption footprint
- Double its circular material use rate
- Include waste reduction targets



French Circular Economy Bill 2020:

100%

Towards 100% of all plastics recycled by **2025**

- Creation of new Extended Producer Responsibility (EPR) schemes
- Bonus for manufacturers incorporating eco-conception processes

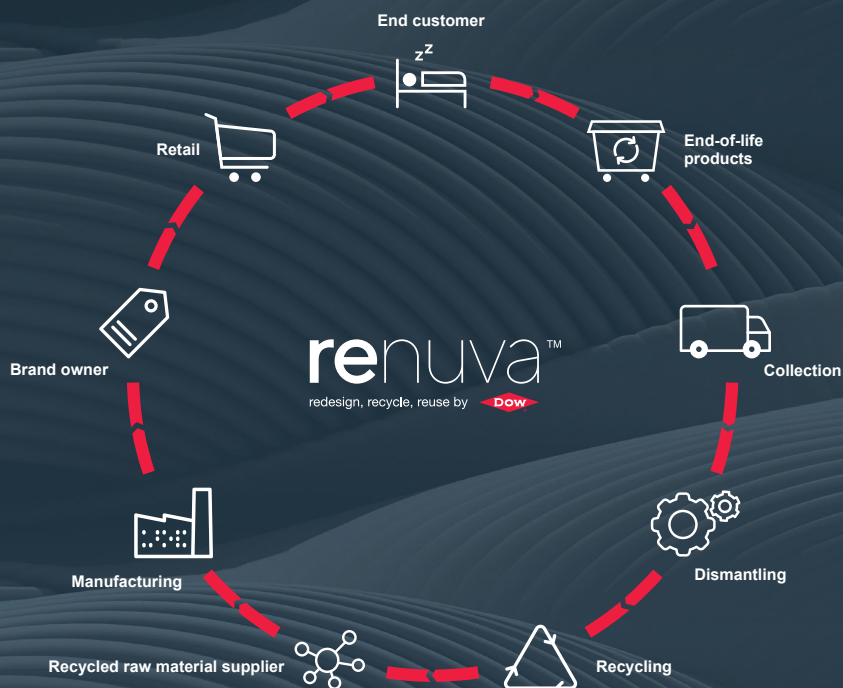


Seek **Together™**

renuva™
redesign, recycle, reuse by

RENUVA™ Program: A circular economy roadmap

Our circular economy program recycles end-of-life polyurethane products in collaboration with the value chain.



How are we collaborating for success?



- Largest pan-European flexible polyurethane foam producer
- Produces flexible polyurethane foam with RENUVA™ Polyol

écomobilier

- Unique EPR scheme in Europe dedicated to furniture and mattresses
- Supplies end-of-life PU foam for the recycling process



- Operates the process where PU foam will be converted into recycled raw material



- Provides the turnkey installations and technological process know-how



- Recycled raw material compliance
- Application development for new product
- Creation of market and demand for recycled raw material

RENUVA™ performance

Up to **50%**

Replacement of standard polyol in **rigid foam**

Up to **30%**

Replacement of standard polyol in **flex foam**



Comparable foam properties in both **rigid and flex foam**

Let's make this a win-win



Contribute towards reducing our collective emissions and energy consumption



Work with us to develop opportunities for our innovative recycling solutions and benefit communities



Be a part of a new business ecosystem

No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, the Customer is responsible for determining whether products and the information in this document are appropriate for the Customer's use and for ensuring that the Customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. Dow assumes no obligation or liability for the information in this document. No warranties are given; all implied warranties of merchantability or fitness for a particular purpose are expressly excluded. This document is intended for global use.