

The dairy farm is a universe

Wheat and milk by-products - cellulose, starch, lignin, casein and whey - can serve as raw materials for biocomposites.

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Hosted by: Thomas Vailly

Project Information (EN)

A DAIRY FARM IS A UNIVERSE

Circularity in design is about reducing, extending, and closing. Reducing the number of virgin resources extracted from existing systems. Extending the lifespan of materials. Closing the loop so that as few resources as possible escape the system. Materials are not frozen resources. Material age, degrade, transform, fuse, mature, leak, and combine with their surrounding. Materials flow within technological or natural ecosystems. These obviously can lead to pollution and contamination. But it can also offer opportunities for symbiosis material developments and entangled relationships. Compostable, Biodegradable, recyclable, and reusable materials must be designed within closed-loop(s) circular systems. « The dairy farm is a universe » is a design research project that explores the potential for sustainability and closed-loop material flow within the premise of a dairy farm. A dairy farm is a merger of various natural and industrial systems. The project look at various material flow within the farm. Cellulose, starch, and lignin from wheat & casein and whey from milk. These can be used as resources for circular bio-composites to be used within the premise of the farm itself.

Image List

Filename	Caption	Credit
thomas-vailly-small-farmstv149-lr_1663006823.jpg	Materials made from milk and wheat by-product.	Studio Thomas Vailly
stv-farm-03_1663061139.jpg	Diagram of a dairy farm as a systems.	Studio Thomas Vailly X Dall.E

The images above are included in the ZIP under /images.