

kern tec

Upcycling stone fruit pits into high-value raw materials

Kern Tec is an Austrian company and a B2B supplier of sustainable raw materials for the food and cosmetics industries. The company uses unused stone fruit pits, such as those from apricots, cherries or plums, as starting material for the production of plant-based ingredients and other products. The aim is to utilize previously discarded side streams from fruit processing as valuable resources and to develop new applications for these raw materials.



Relevant Resources in the Loop

- **STONE FRUIT PITS** - as the primary resource
 - Extraction and processing of the contained seeds into raw materials

Methods & Approaches of Circular Economy

Kern Tec uses unused stone fruit pits from the food and juice industries and transforms them into safe and high-quality raw materials using proprietary technologies. The seeds contained in the pits are processed into innovative ingredients such as pastes, oils and other functional components for the food and cosmetics industries, serving as an alternative to conventional nut-based raw materials. Through this upcycling approach, previously unused side streams are fully utilized and integrated into new circular value chains.



Impact & Added Value

Kern Tec demonstrates how fruit-processing byproducts can be used as valuable resources. This enables a more efficient use of existing materials and supports the development of new applications across different industries. At the same time, the role of biogenic side streams as part of circular value chains is strengthened.



Ecological Benefits

- Upcycling of unused stone fruit pits as a biogenic side stream
- Reduction of food waste
- Lower water consumption compared to conventional nut production
- Reduced CO₂ emissions through the use of existing resources
- Contribution to resource-efficient & circular raw material systems



Social Benefits

- Promotion of sustainable innovation in the food industry
- Contribution to responsible & transparent supply chains
- Support for the transition to a circular bioeconomy
- Strengthening sustainable production & consumption practices
- Raising awareness for the use of biogenic side streams



Economic Benefits

- Value creation from previously unused side streams
- Development of sustainable alternatives
- Diversified applications in the food & cosmetics industries
- Efficient use of existing resources reduces raw material costs
- Scalable business model with international market potential