Die Bioraffinerie in Lenzing –Bioökonomie seit 80 Jahren

PD DI Dr. Karin Fackler

Unser Kernmarkt: holzbasierte Cellulosefasern

LENZING™ Fasern hergestellt aus dem natürlichen Rohstoff Holz sind unser hochwertiges Hauptprodukt

Unsere Produktmarken:

Tencel™
Feels so right

Veocel™
Purely for you

LENZING™

LENZING™ Fasern im Einsatz

Tencel™
Feels so right

Textilien

Home

Luxe

Denim

Active

Intimate

Lenzing

LENZING™ Fasern im Einsatz

Vliesstoffe (Non-Wovens)

Veocel™
Purely for you

Body

Surface

Beauty

Intimate

Lenzing
Innovative by nature

LENZING™ Fasern im Einsatz

LENZING™

Industrials

Agriculture

Protective Wear

Workwear

Packaging

Engineered Products

Footwear

Automotive Interiors

Biorefinery Products

Co-Products

Lenzing

Innovative by nature

Lenzing Standorte weltweit

Lenzing
Innovative by nature

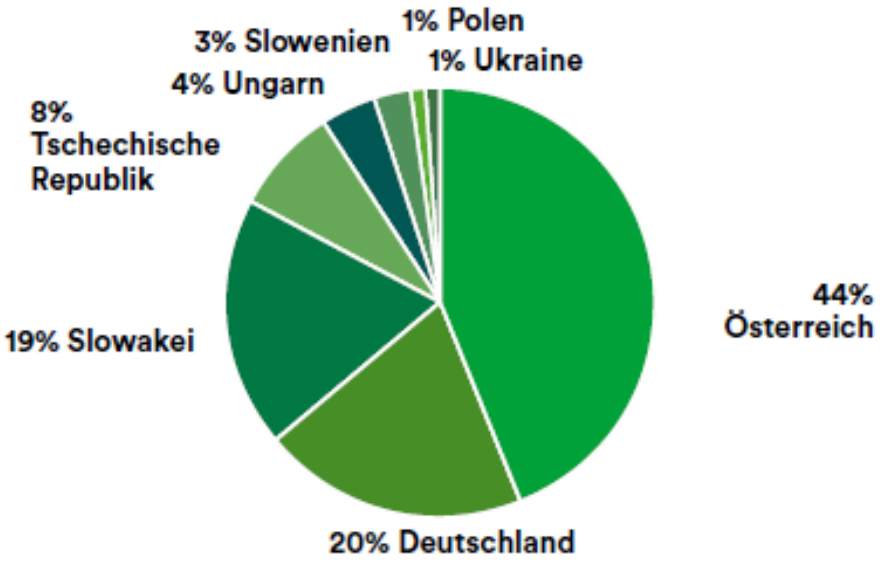
Der Produktionsstandort in Lenzing im Salzkammergut

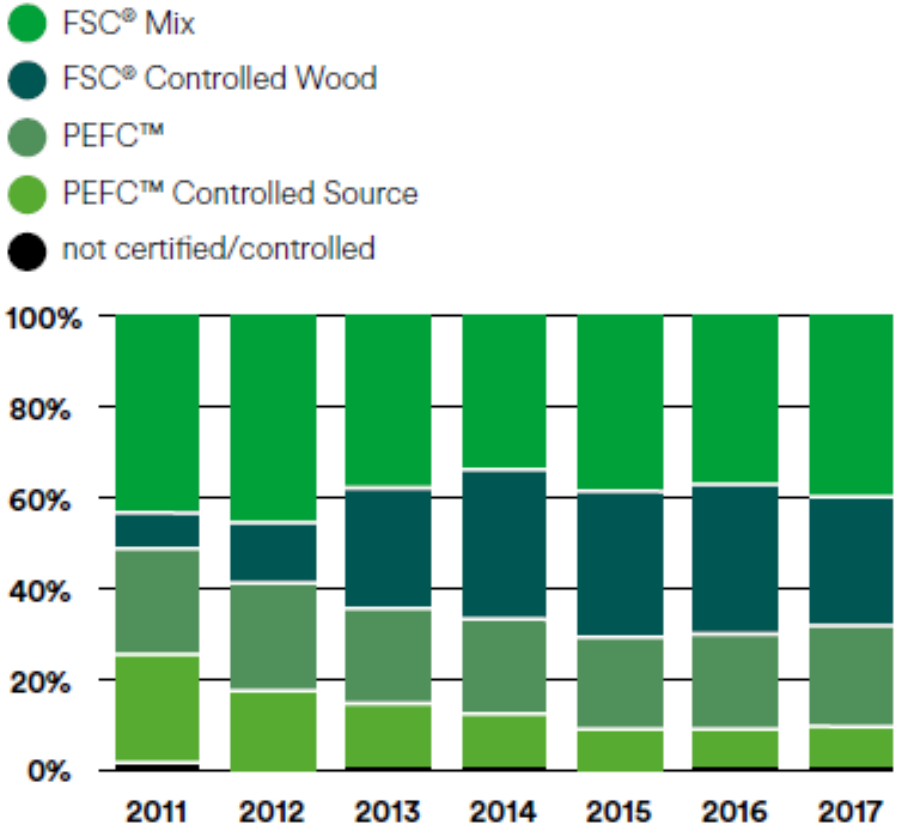
Der Standort Lenzing

- Die größte vollintegrierte Faserzellstoff und Cellulosefaserfabrik der Welt
- Rohstoff: vor allem Buchenholz
- Kapazität Faserzellstoff: ~320.000 t/a
- Kapazität Cellulosefasern: ~354.000 t/a
- Headquarter der Lenzing Gruppe
- Global R&D mit ca. 190 Mitarbeitern und Mitarbeiterinnen
- Personal: ca. 2.700 in Lenzing; 6.500 in der Lenzing Gruppe

Buchenholz ist unser wichtigster Rohstoff

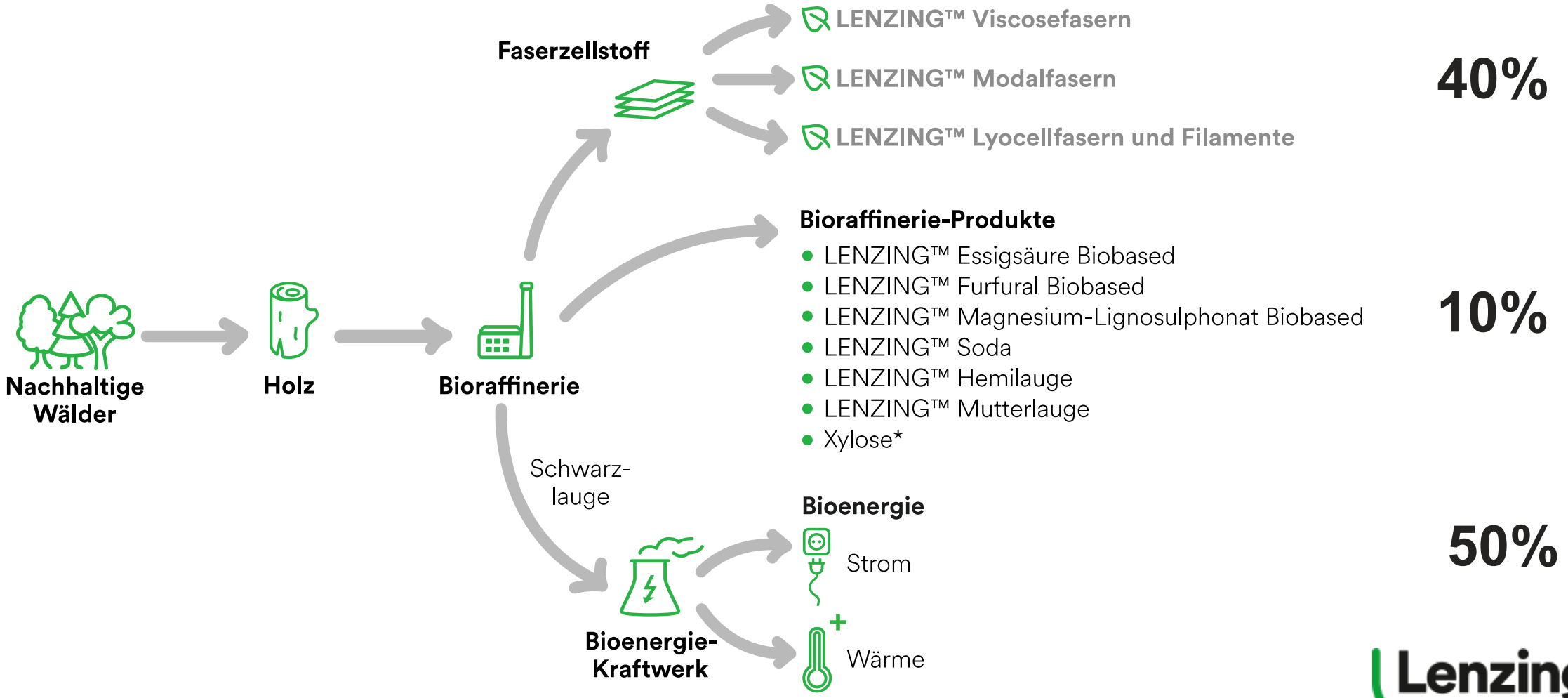
- **Ca. 800.000 t Buchenholz werden jedes Jahr geliefert und prozessiert**
- **Ca. 20.000 t davon aus der Schweiz**
- Unser Holz ist 100% zertifziert





Lenzing
Innovative by nature

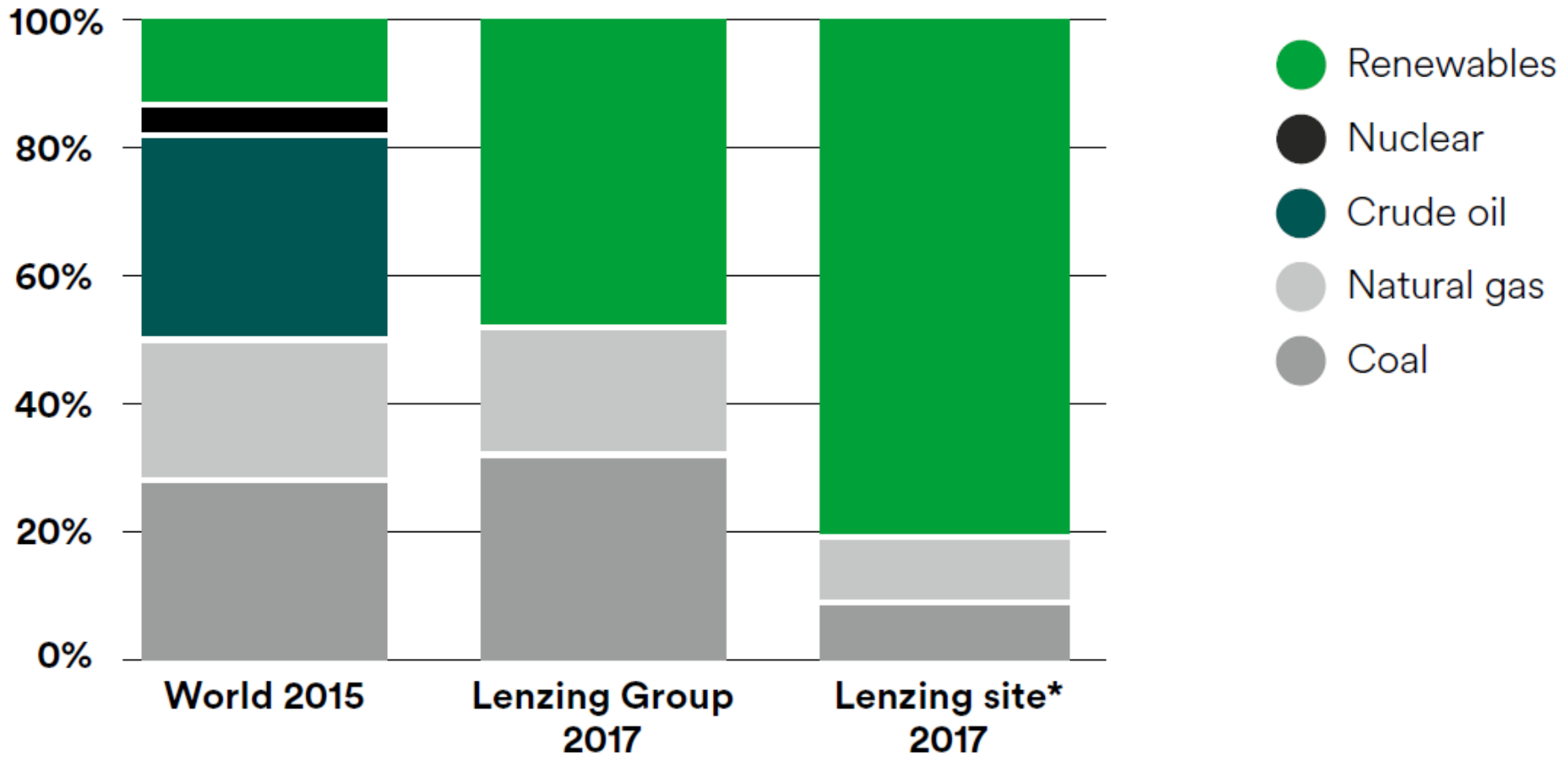
Das Bioraffinerie-Konzept der Lenzing Gruppe



Strom und Wärme werden intern verwendet.

Lenzing
Innovative by nature

Grüne Energie ist der Kern unserer Energieversorgung



Lenzing
Innovative by nature

Die Bioraffinerie Lenzing ist auf Buchenholz abgestimmt

- **Rundholzlagerung und Chipsilos auf dem Holzplatz**
- **Hohe Schüttdichte der Chips im Prozess**
  - Gleichbleibend hohe Kapazität der Zellstofffabrik
- **Hoher Anteil von Xylan im Buchenholz**
  - Gleichbleibende Kapazität und Qualität in der Bioraffinerie
  - Xylose (seit 1998)
  - Essigsäure und Furfural (seit 1983)

Lenzing
Innovative by nature

Die Bioraffinerie in Lenzing macht Tag für Tag…

- …weiche Fasern aus Hartholz
- …was Süßes
- …was Saures
- …und jede Menge Bioenergie als Wärme und Strom

…und sie ist auf Buchenholz abgestimmt…

Lenzing
Innovative by nature

für Ihre Aufmerksamkeit

Annex - Biorefinery Products

Biobased chemicals and co-products table 4/2

Product	Description	Users
Acetic acid	Acetic acid is a clear, colorless liquid with a pungent odor, produced as a biorefinery product of pulp production from beech wood. It is recovered in several process steps and turned into high-quality, food-grade acetic acid. The product is free from solids and of a high purity, making it suitable for human consumption.	• Food industry • Pharmaceutical and cosmetics industry • Chemical industry • Solvents • Textile industry
Furfural	Furfural is a clear, yellowish liquid with a characteristic odor of almonds. Furfural is produced as a biorefinery product of pulp production from beech wood. It is released in a double distillation process. This guarantees the removal of contaminants and a product of the highest purity.	• Primary product for furfuryl alcohol • Solvent in the refining of lubrication oil • Solvent for anthracene and resins • Distillation of butadiene • Herbicide production
Magnesium lignosulfonate	Lignines constitute one of the most common natural substances. The release liquor generated during pulping in the acid magnesium bisulfite process is evaporated to attain a solid matter content of approximately 60 percent. Natural magnesium lignosulfonate, which readily dissolves in water, is brown in color and used amongst other things as a fixing and pelletizing auxiliary agent and as a dispersing and annealing agent in the concrete industry.	• Animal food industry • Ceramics industry • Production of fireproof bricks • Tanning agent industry • Chipboard and fiber board industry • Auxiliary materials for the construction industry • Fertilizer industry
Sodium carbonate (soda)	Soda is a white, free flowing, odorless granulate, which is used in many industrial applications.	• Glass industry • Pulp and paper industry
Xylose (wood sugar)	Extracted from pulp cooking liquor and processed into xylitol at the Danisco Austria GmbH facility on site. A naturally occurring sweetener with all the taste and sweetness but only half the calories of sugar, xylitol leaves no aftertaste and protects teeth from cavities.	• Sweetener in food and pharma industry
Sodium sulfate	Sodium sulfate is produced as a co-product during viscose and modal fiber production. The white crystalline powder undergoes further processing.	• Detergent, cleaning-agent, and glass industries.