

# ENERGY TRANSITION AT ALWERA AG

ALWERA GRUPPE



# The ALWERA Group at a glance

**„From field to finished food product – everything from a single supplier.“**

ALWERA AG is active along the entire value chain  
**agriculture – food – technology**



# Companies of the ALWERA Group

## ALWERA AG (Parent Company)

- Specialist in contract farming of seeds for oil pumpkin, runner beans and corn
- Responsible for seed supply, field support, harvest coordination, and raw material logistics
- Many years of experience, strong service orientation, and close cooperation with farmers

## Estyria Naturprodukte GmbH

- Food production and processing, covering product development, manufacturing, and distribution
- Strongest food brand: **Steirerkraft** Styrian Pumpkin Seed Oil PGI

## MILTECO GmbH

- Plant engineering, press construction, and process technology – providing the technical foundation for efficient food production

## Ascon3 Maschinenbau GmbH **Ascon3**

- Harvesting, washing, and drying technology – innovative solutions, especially in the pumpkin sector

# ENERGY TRANSITION

## Cascaded Heat Pump System and expansion of PV installations

- Innovation is a dual use of thermal energy for heating and cooling
- Supply of space heating, industrial process heat and cold storage within one interconnected energy system
- Distribution of thermal energy with an internal local heat and cooling grid
- Increasing own production of electrical energy



## HEAT PUMP PERFORMANCE DATA

Total heating capacity at 75°C: **4,800 kW**

Total cooling capacity at 7°C: **2,600 kW**

Total electrical connection: **2,550 kW**

Maximum air temperature for drying: **60°C**



## PV SYSTEM EXPANSION AT THREE LOCATIONS

Wollsdorf: **910 kWp**

Herzogenburg: **440 kWp**

Paldau: **150 kWp**

**Total 1,500 kWp**



# ESTIMATED ANNUAL SAVINGS

- Substitution of **approx. 4,400,000 kWh/a** of natural gas
- Substitution of **approx. 30,000 kWh/a** of heating oil
- Reduction of CO<sub>2</sub> emissions by more than **1,100 tons/a**
- Increase in self-generated electricity from PV systems by **approx. 1,650 MWh/a**

# OUR TARGETS

- **Becoming independent from fossil fuels**  
→ substitution of fossil fuels through electrification
- **Increasing on-site generation of renewable electricity**  
→ getting energy self-sufficient
- **Becoming more energy efficient**  
→ implementing high efficient technologies



# Thank you

