

# Carbon-neutral Production at KACO new energy

# Carbon-neutral Production

## Sustainability mission



KACO new energy, headquartered in Neckarsulm, Germany, is a medium-sized company with a passion and drive for research that stands for high-quality engineering in the field of independent and decentralized energy supply.

Our inverters are designed to support both renewable energy deployment and efficient energy management around the world.

Within Siemens AG, KACO new energy is the specialist for power electronics for decentralized energy supply.

At KACO new energy, we have worked specifically to make our production at the Neckarsulm site climate-friendly, making us the world's first supplier in the photovoltaic industry to manufacture inverters in a CO<sub>2</sub>-neutral manner.





# Carbon-neutral Production

Value Chain blueplanet 87.0 – 165 TL3 (1/2)

## Development

- Takes place **100%** in **Neckarsulm**.

## Sourcing

- The share of the **direct material costs** of components sourced within **Europe** is **90%**.

## Production

- Takes place **100%** at the location in **Neckarsulm**.
- The production is **100% carbon neutral**.



## Marketing

- Development and design of **customer journey**
- Analysis and design of **touchpoints**

## Logistics

- Logistic routes have been **shortened** and are covered by a **regional** company.

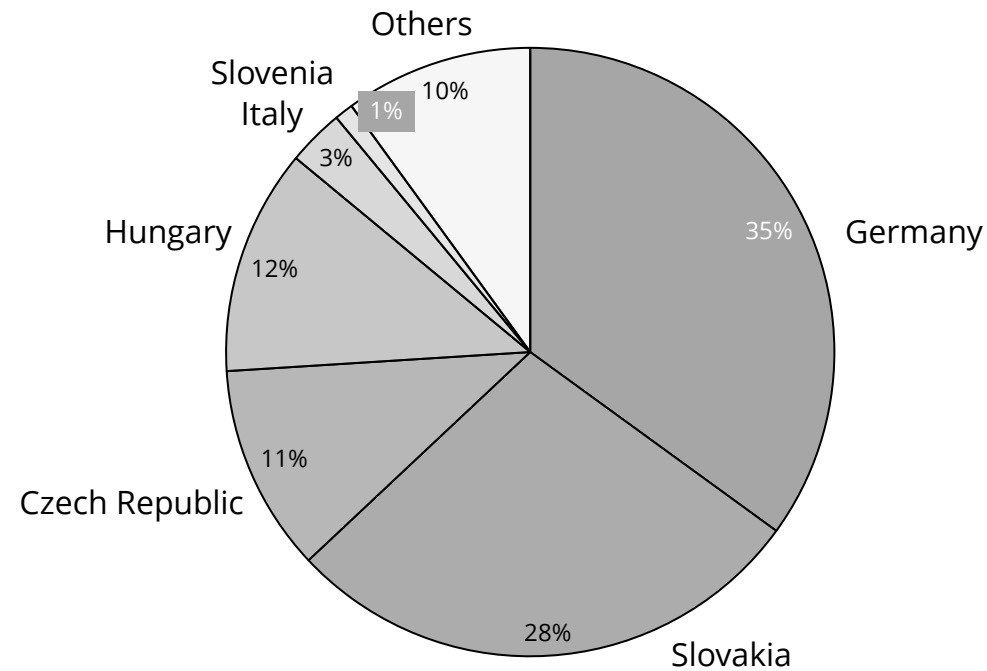
## Sales

- **Identification** of potential customers and their needs
- **Link** between market (customers) and development

# Carbon-neutral Production

## Value Chain blueplanet 87.0 – 165 TL3 (2/2)

Origin countries of the components at a high level.



# Carbon-neutral Production

## Energy management

- We **love** what we do.
- We were the **first CO2-neutral manufacturer** within the solar industry.
- Our **environmental management** is in accordance with international DIN EN ISO 14001 standards.
- We are certified according to DIN EN ISO 50001. This means our **energy management** and our **production processes** meet the **highest standards** of efficiency and resource conservation.
- Our **total energy requirements** for manufacturing and company management are covered by **self-generated energy**.
- With our **broad product portfolio**, we also create solutions that ensure a **decentralized energy supply** with **renewable energies** and the efficient use of energy.



# Carbon-neutral Production

## Energy balance

What has KACO new energy done to ensure that production at the Neckarsulm site is CO2-neutral??

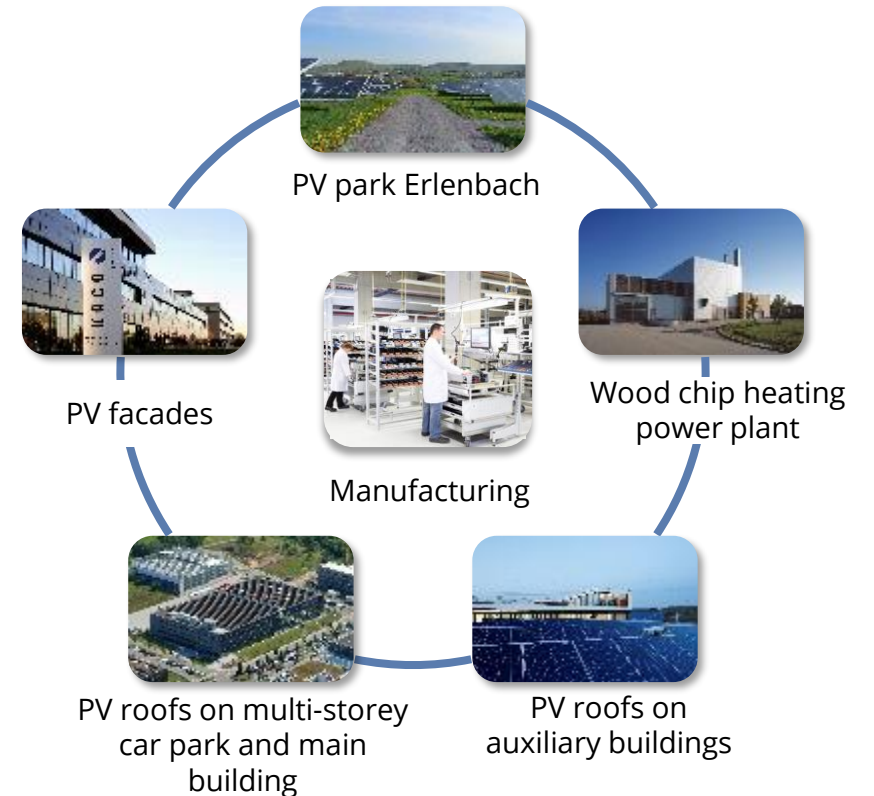
### Electrical energy demand

Generation / Consumption in 2020	
Production site	-1.098.723 kWh
PV plant Erlenbach	1.835.593 kWh
Other PV plants across buildings	457.561 kWh
Surplus	736.870 kWh

\*In the event of a power deficit, we purchase 100% electricity from renewable sources.

### Heat demand

- 260.074 kWh
- Procurement via district heating from CO2-neutral wood chip heating power plant





Thank you for  
your attention.

KACO new energy GmbH  
A Siemens Company

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