



1973/74



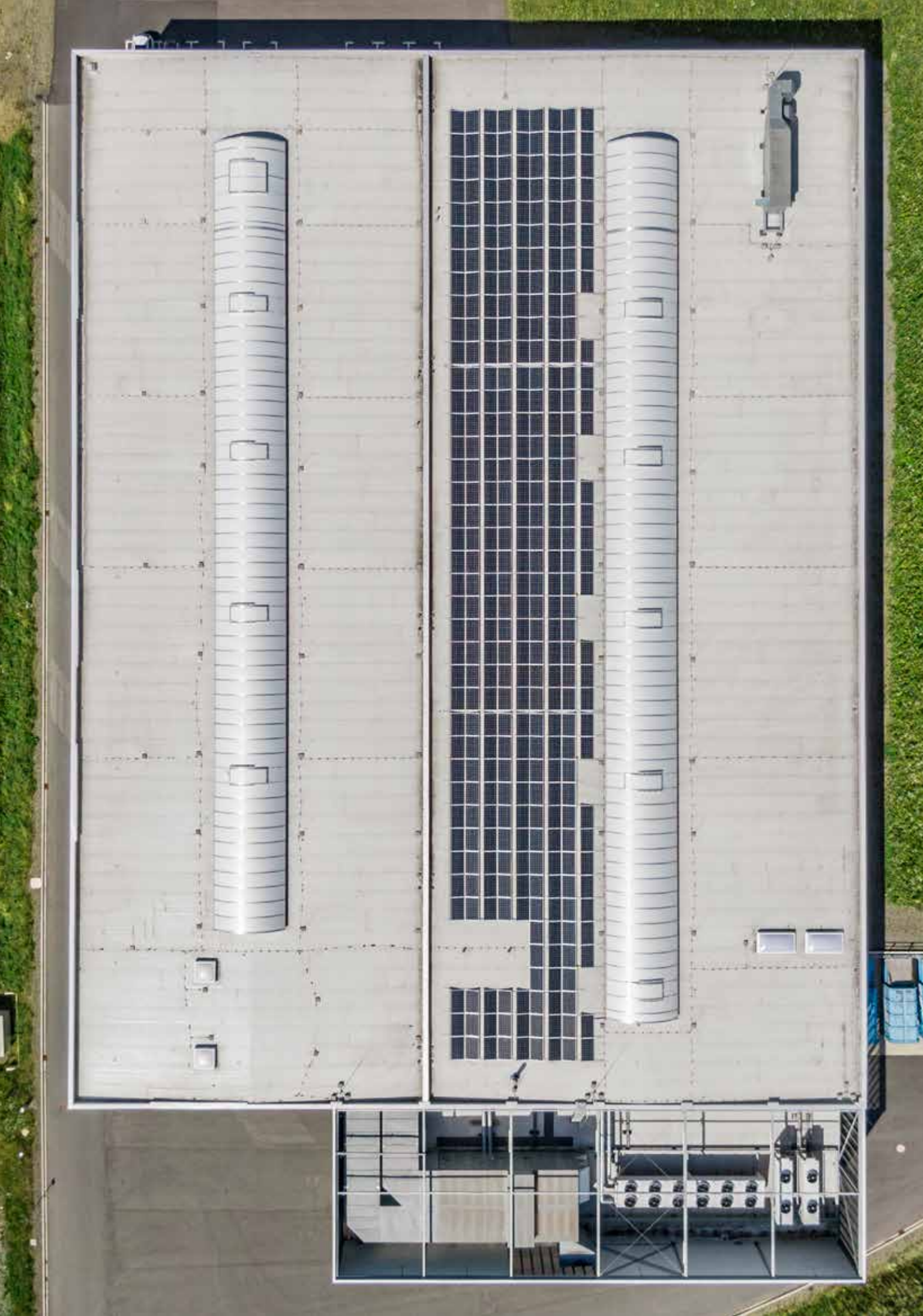
2014



2019

**Environmentally conscious  
right from the start**





## Consistently ahead of the times

At Schulte Elektrotechnik, sustainability is a key concern alongside the symbiosis of design and function – and always has been. As far back as 1973, the company's first headquarters were fitted with climate-neutral heating systems. By making use of waste heat from the plastic injection moulding shop, we were ahead of the times in terms of energy-efficient and sustainable building services engineering. When we expanded our facilities in 2014, we switched to geothermal energy, which provides hot water for the heating systems in the winter. And now we're going one step further with our new, recently completed production and storage hall: not only is it practically a zero-energy building, it actually lies 60% below the limit values prescribed by the German Energy Saving Ordinance (EnEV)





Recycling of waste heat from the plastic injection molding shop.

Balancing energy: „Cheap night electricity“

1974



Floor heating in offices and production hall.

The architect at the time:  
„You can buy many tons of heating oil for that.“





## Company expansion 2014

Everything without subsidies

# 2014



**10 deep drillings of 100 m**  
each as intermediate  
storage for excess energy'  
from the process heat.

Energy recycling on  
demand.



**Ceiling-  
and floor activation**  
with ducts for ‚gentle‘  
air circulation.

Consistent  
Room temperature  
21-22°C

Works for 6 years  
excellent.





Stratified tank for Heating water

Cold and warm brine



Brine-water heat pump

- No ceiling lights
- no sockets and switches in the walls
- wireless control: Kinetics with EnOcean piezo technology
- Power and data lines in the floor with CP-Points
- Decentralized protection



2014





New company building Rosmart  
4.200 m<sup>2</sup> Production space

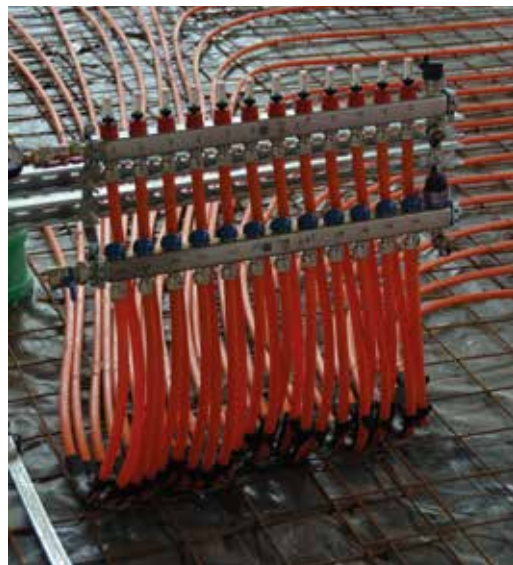
Pilot project

Energy self-sufficient building - electricity - climate

Subsidy: 250.000 EUR due to 60% undercutting of the prescribed limit values

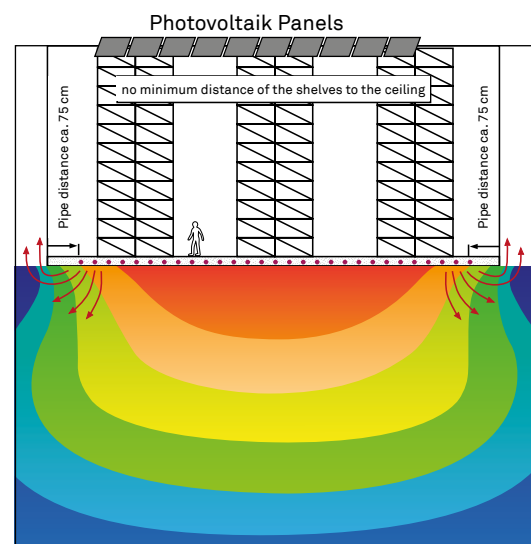
2019





## Underfloor heating

Thermally activated floor panels on the entire production and storage area; activated by photovoltaics and energy recycling.



Energy cushion.

Laterally insulated  
against diffusion





Plastic injection moulding shop



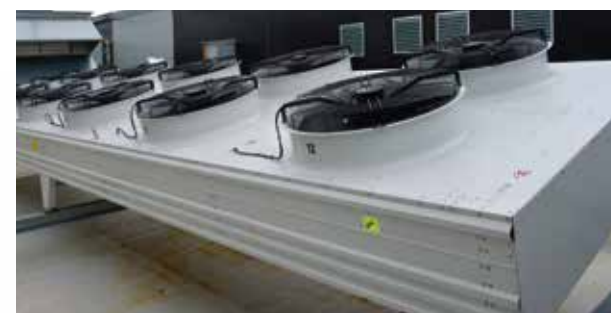
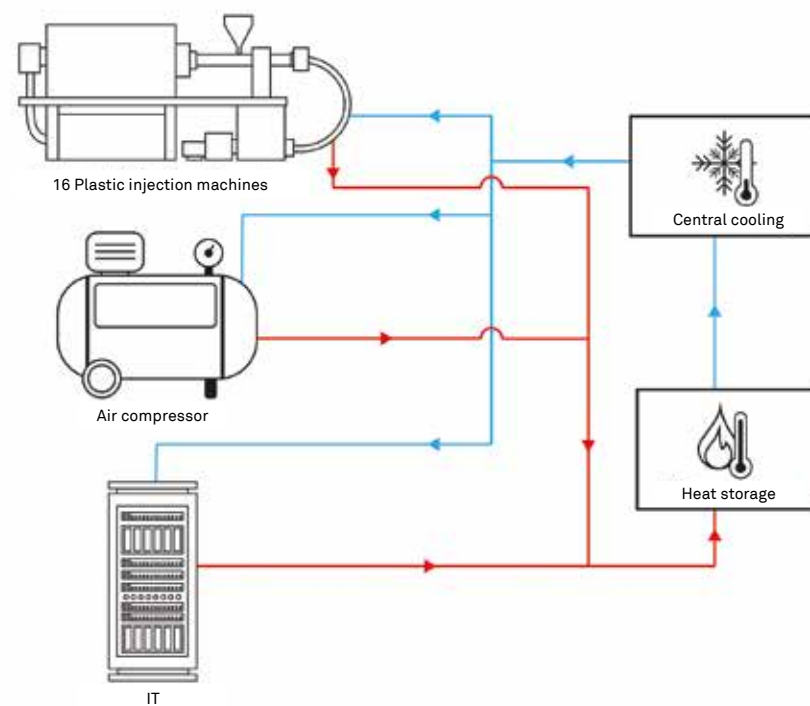
Compressed air generator with heat recycling



IT server room

## Heat recycling

of more than 80% from the ventilation in the plastic molding shop as well as cooling of the machines and no disturbing air movements.



Underfloor heating



Air-source heat pump with adjacent „control center“



Cooling system for process cooling with heat recycling



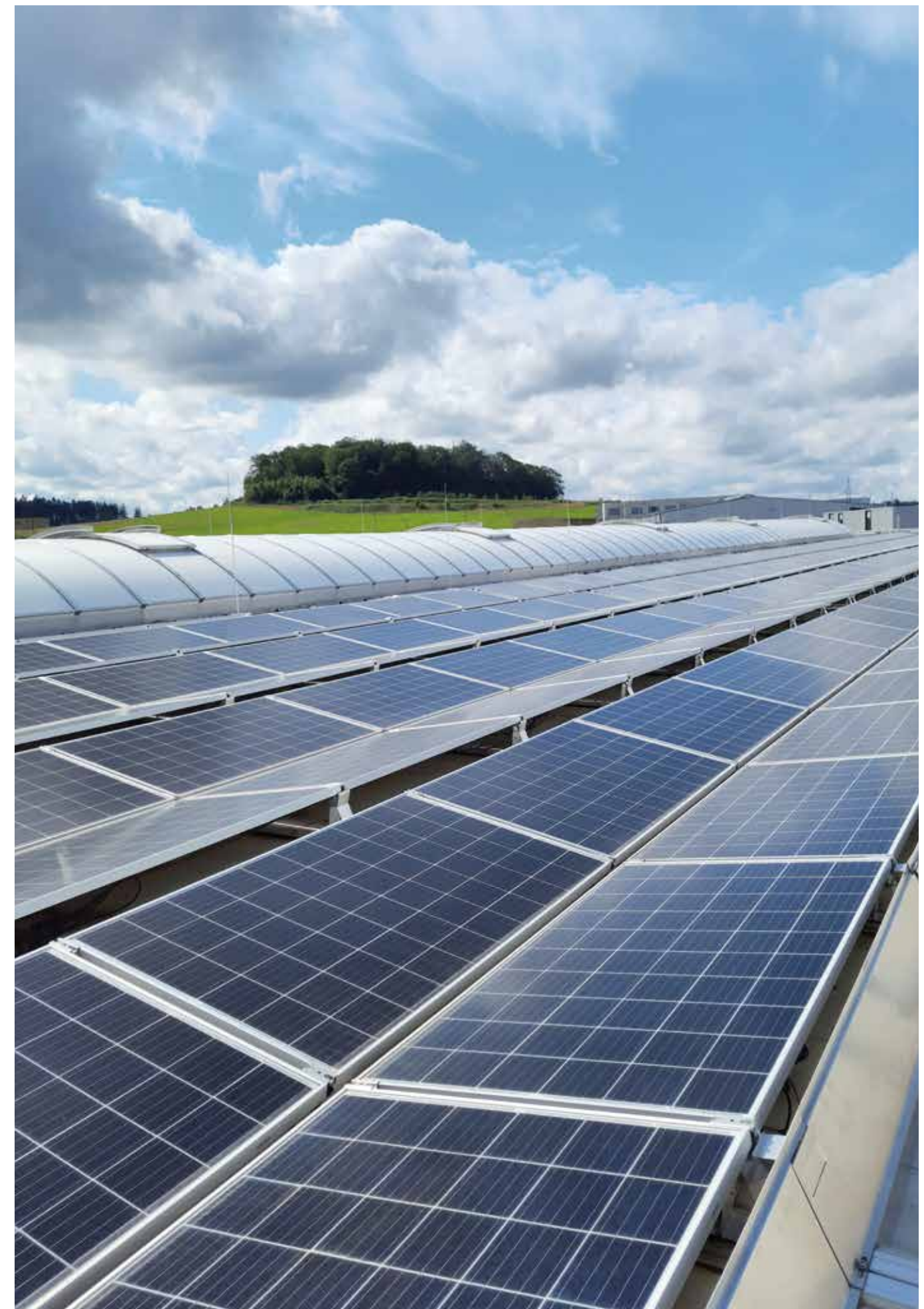


Outdoor ventilation system - 50,000 m<sup>3</sup>/hour with low vibration.



Subdistribution technology

Inverter for photovoltaic system

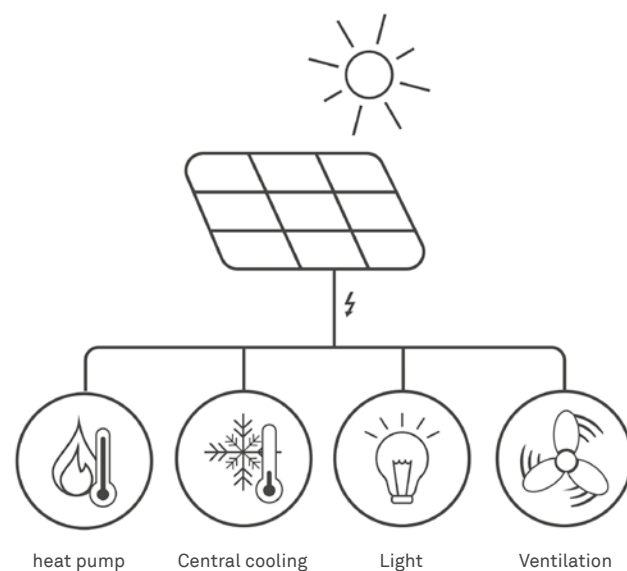


photovoltaic system





New company building Rosmart  
Photovoltaic & ventilation system



### Calculated result:

The electricity required for all heating and cooling equipment is generated by photovoltaics.

Step by Step on the way to self-sufficiency





## The plastic injection moulding shop

is put into overpressure by the ventilation system, thus ensuring a permanent supply of fresh air and keeping pollen and dust outside.



2020





Plastic material distributor station



Subdistribution



Shelf storage for materials



Drying plant for plastic material, with vacuum valves



Tool storage





Bihler-Contact welding machine







Automatic switch assembly





# EVoline® Product overview 2021

**EVoline® Up**



**EVoline® One**



**EVoline® Port Push**



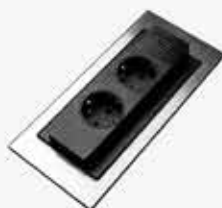
**EVoline® Dock Square**



**EVoline® Square80**



**EVoline® BackFlip**



**EVoline® FlipTop Push**



**EVoline® Dock**



**EVoline® Circle80**



**EVoline® Port**



**EVoline® FrameDock**



**EVoline® R-Dock**



**EVoline® U-Dock**



**EVoline® V-Dock**



**EVoline® V-Port**



**EVoline® T-Dock**



**EVoline® Vertical**



**EVoline® Qi-Charger**



**EVoline® Express**



**EVoline® Plug**

