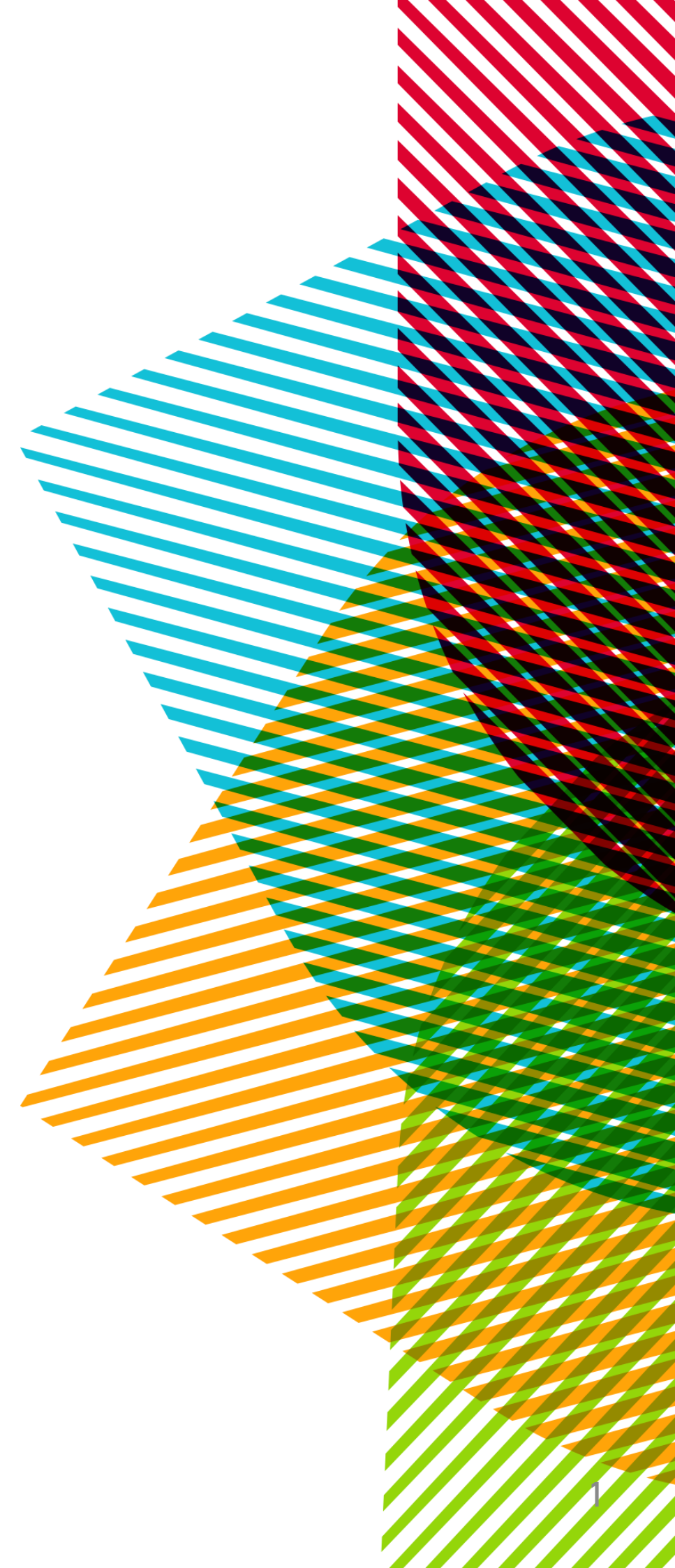




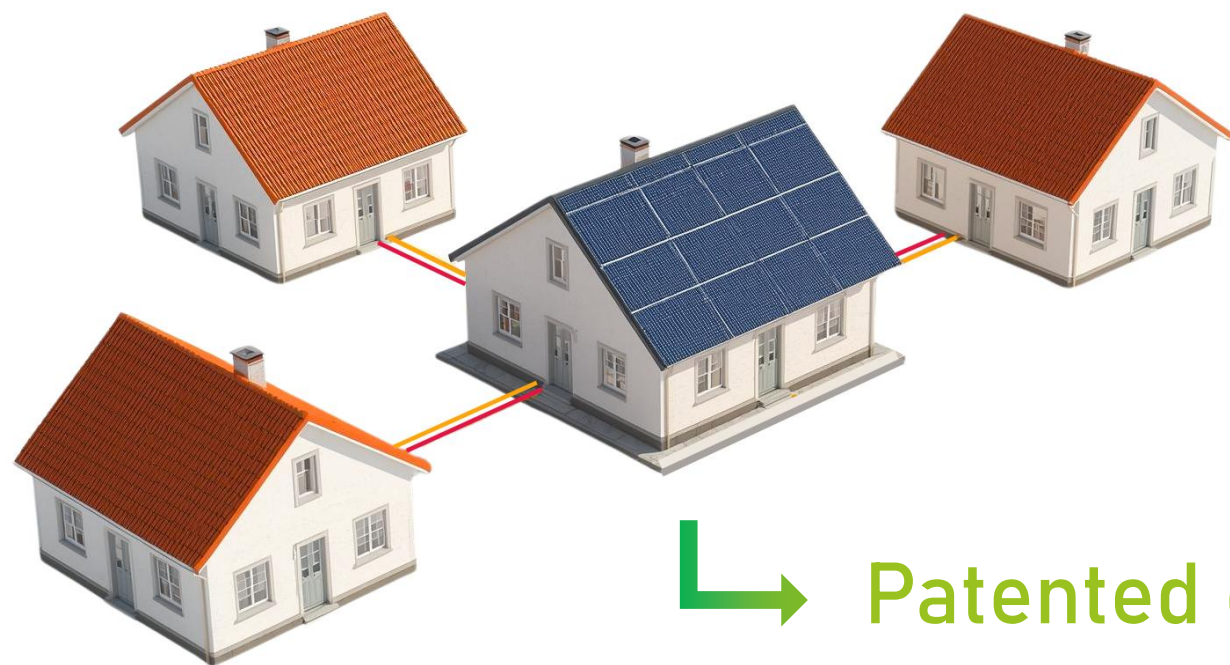
equatronic smart energy
GmbH & CO KG

Creators of equatop ThermoPV



- ↳ Innovative technology company from Germany
- ↳ Develops and manufactures equatop ThermoPV to utilise previously unused PV waste heat
- ↳ First pilot installations launched in Germany and Italy
- ↳ Technology is scalable and eligible for funding (e. g. Horizon Europe, CETP)



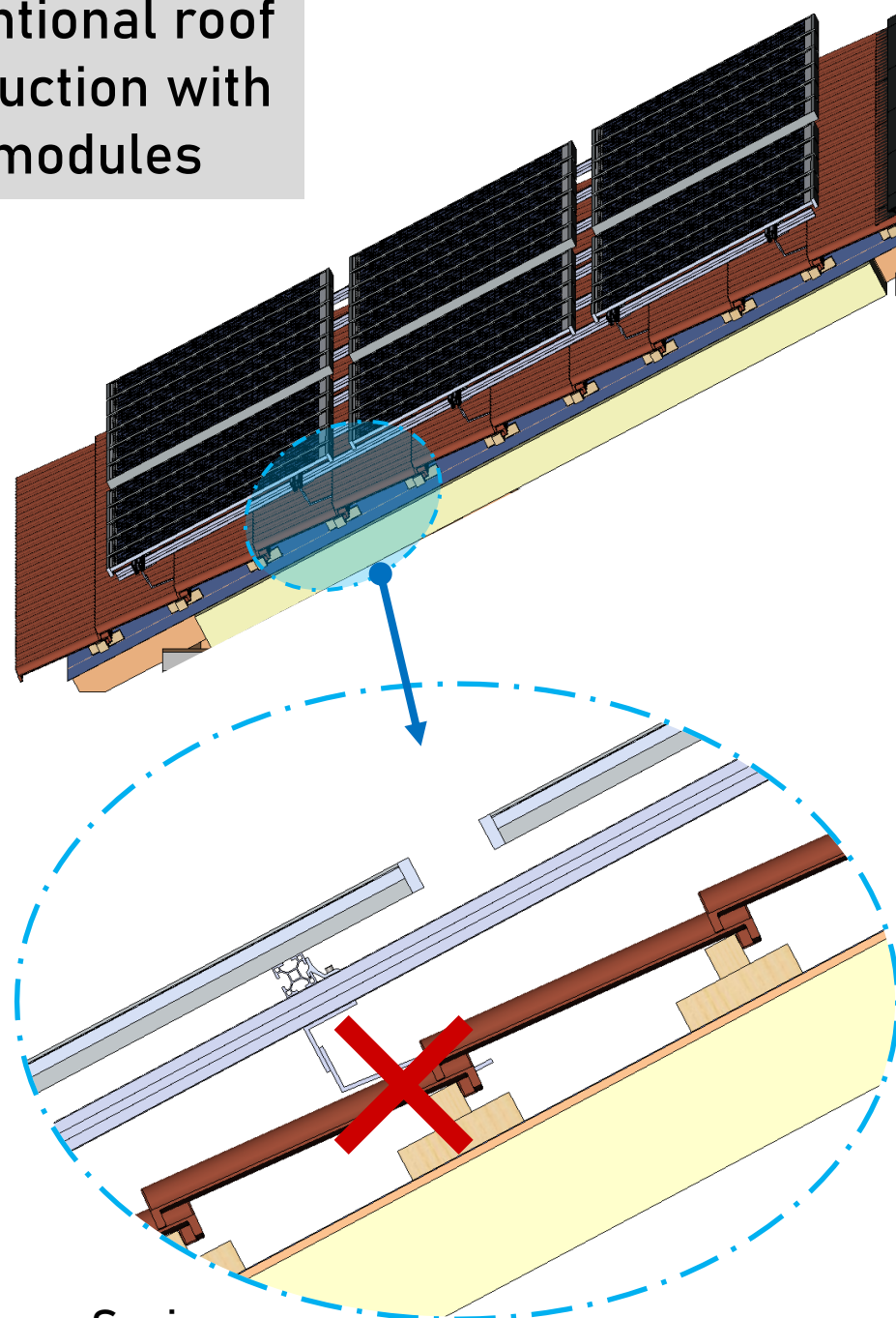


1 roof → 4 houses: electricity + heat

- ↳ Patented energy envelope replaces roof and façade, combining photovoltaics, heating and cooling
- ↳ Up to 700 kWh/m²·a total energy yield (200 kWh electricity + 500 kWh heat; with heat pump up to 1,000 kWh heat)
- ↳ Active and passive heat storage enables geothermal regeneration and seasonal storage
- ↳ Urban Cooling / City Heat Detox: reduces roof and façade surface temperatures by up to 15 °C

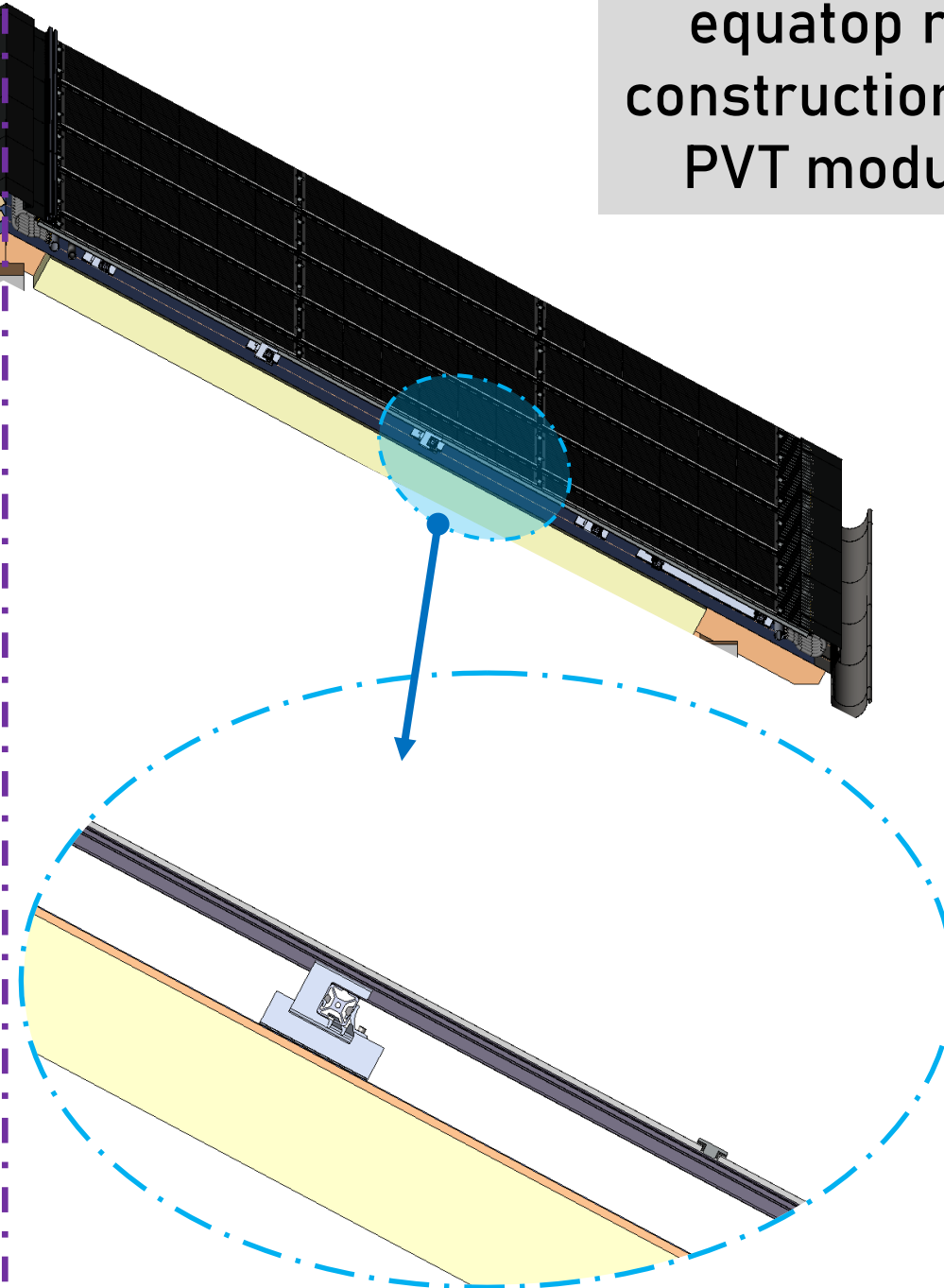
SYSTEM COMPARISON

Conventional roof construction with PV modules



X Savings:
Eliminates need for counter battens, roof tiles, additional materials and labour

equatop roof construction with PVT modules



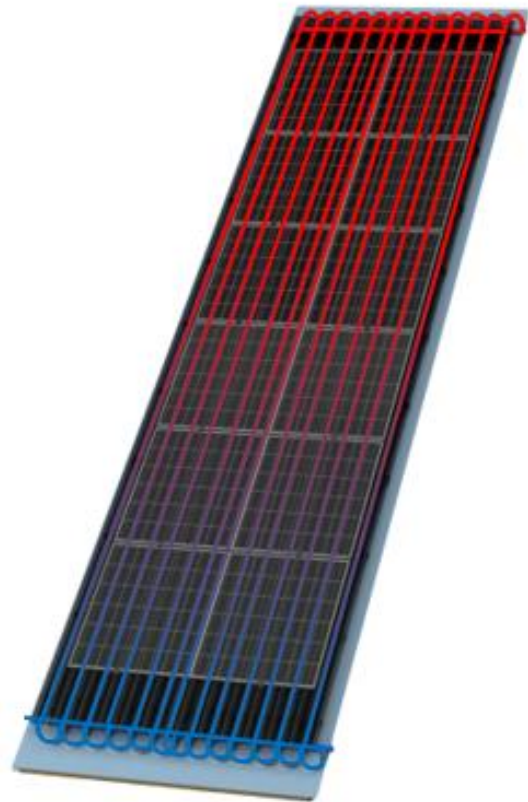
equatop

- ✓ 4x higher energy yield
- ✓ Multiple times longer lifespan
- ✓ Half the construction height
- ✓ Half the installation time
- ✓ Additional cost <€200/m²

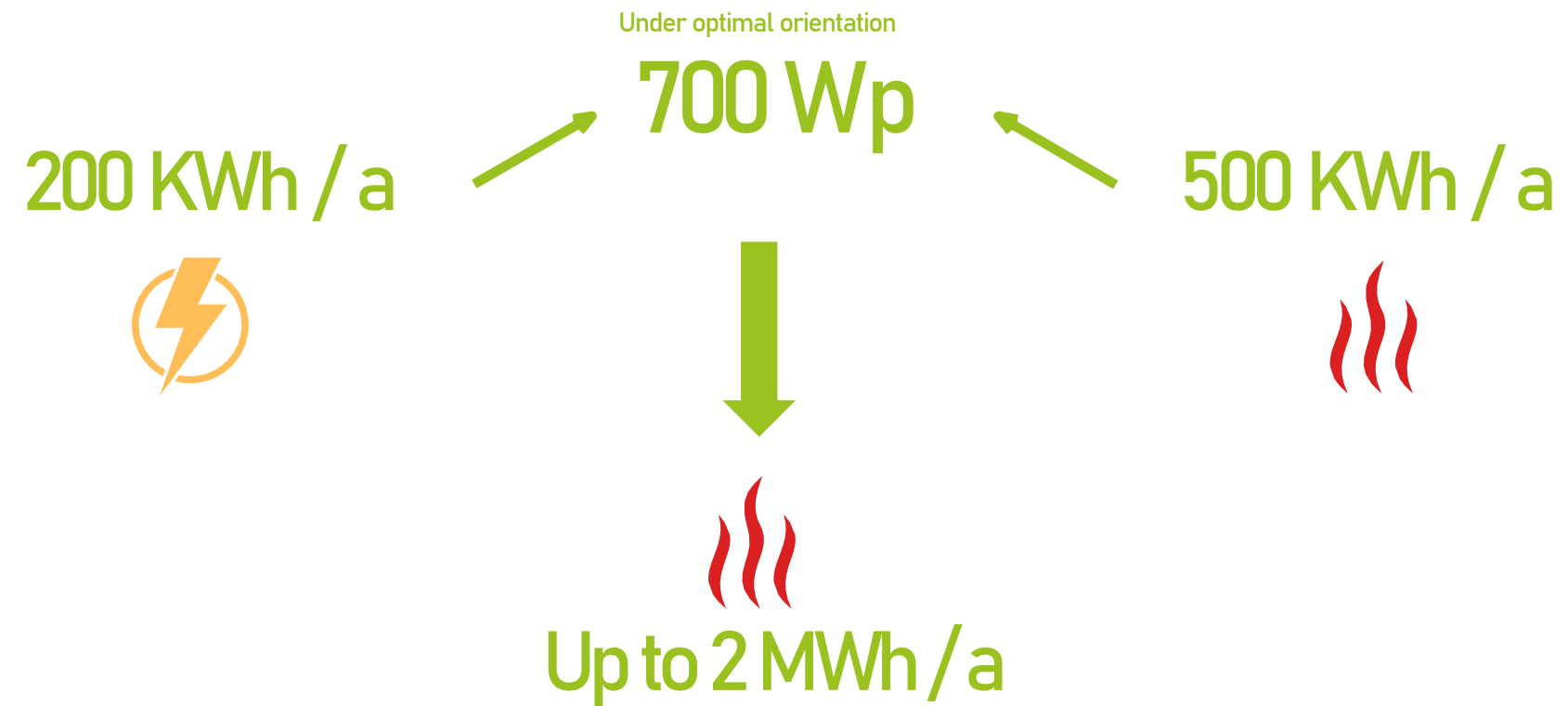
1m² equatop over 100 years:

- ✓ Pays back in 4 years
- ✓ generates 20 MWh of electricity
- ✓ Saves 5,000 litres of heating oil
- ✓ Avoids 20 t CO₂ emissions
- Equivalent to 7 t electricity + 13.2 t heating energy





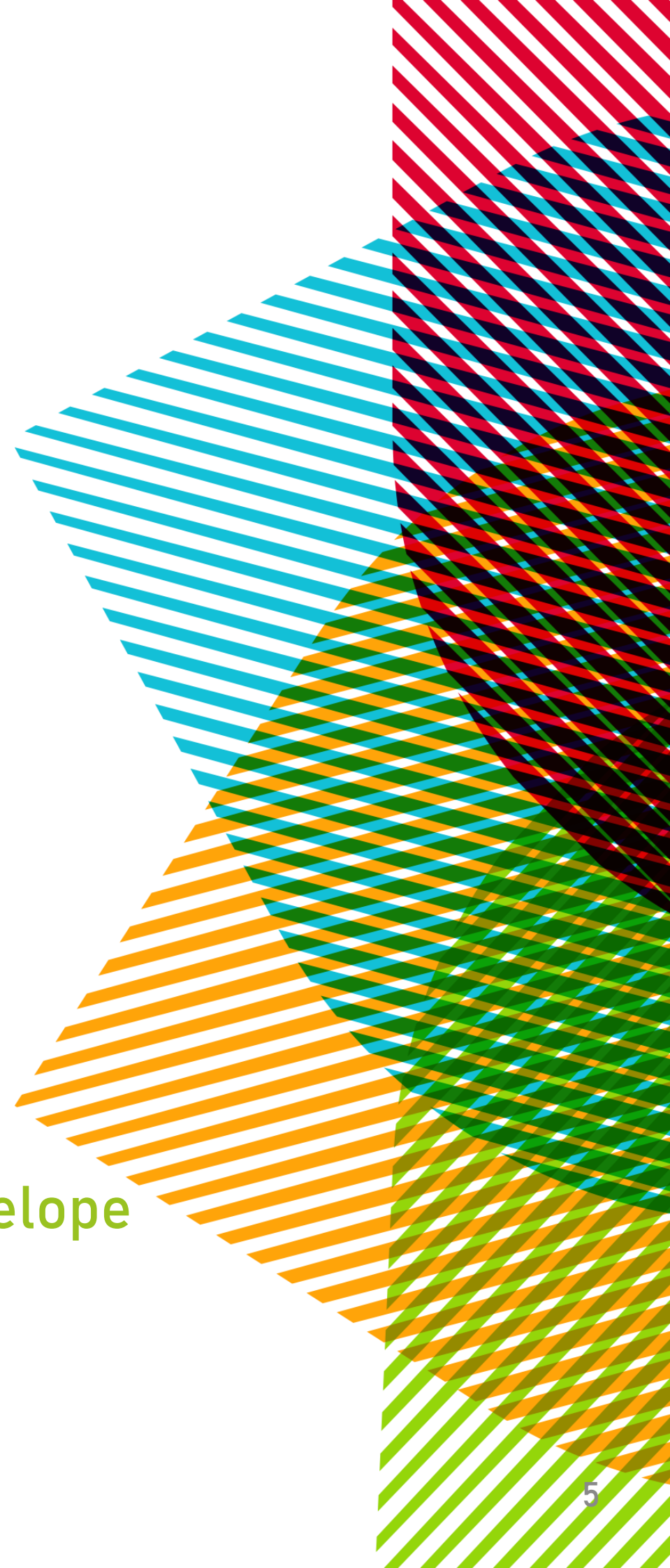
Passive yield per m² (→ without heat pump)



Active yield per m²
(with heat pump & storage)

Up to 100% SOLAR ENERGY

Directly integrated into the building envelope
roof - façade



SPECIAL FOR HOT CLIMATES (Spain)



- ↳ Keeping your buildings cool
- ↳ Can be adapted for water desalination and regeneration
- ↳ Increases efficiency of ground-mounted PV-Systems and heating networks
- ↳ Perfect source for industrial heat (up to 100°C)

MARKET & COMPETITION

- ↳ EU target: 300 million buildings to be climate-neutral by 2050
- ↳ Annual financing gap: €150 billion in the building sector
- ↳ Competition: conventional PV + solar-thermal systems, PVT solutions
- ↳ USP equatop ThermoPV: double heat output, longer lifespan, grid-supportive operation, faster installation times



CONTACT & INFORMATION

Florian Scherer
CMO & Co-Founder

equatronic smart energy GmbH & Co. KG
Dieselstraße 16
86368 Gersthofen

 florian@equatronic.net

 equatronic.net

