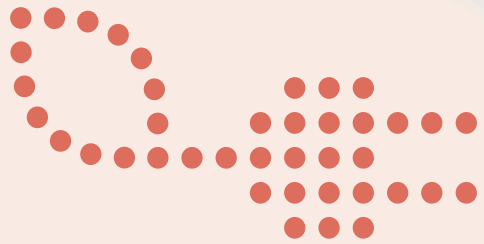


SMART HEATING SOLUTIONS FOR ELECTRIFIED HEAT SUPPLY



ælectra
THE ECO HEATING APPLICATION ®

D.En.S. Deutsche Energiesysteme GmbH

www.aelectra.de



MISSION

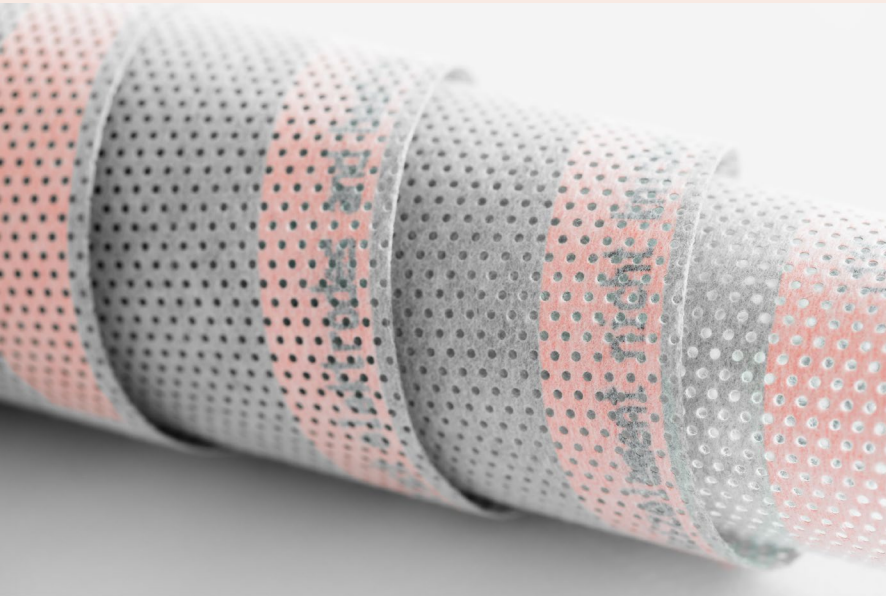
Integration of the heating & renewable electricity
sectors

Decarbonisation of heat generation

Technical added value for the energy transition

Economic benefits for the real estate market

SYSTEM COMPONENTS



Carbon + PET Membrane

+



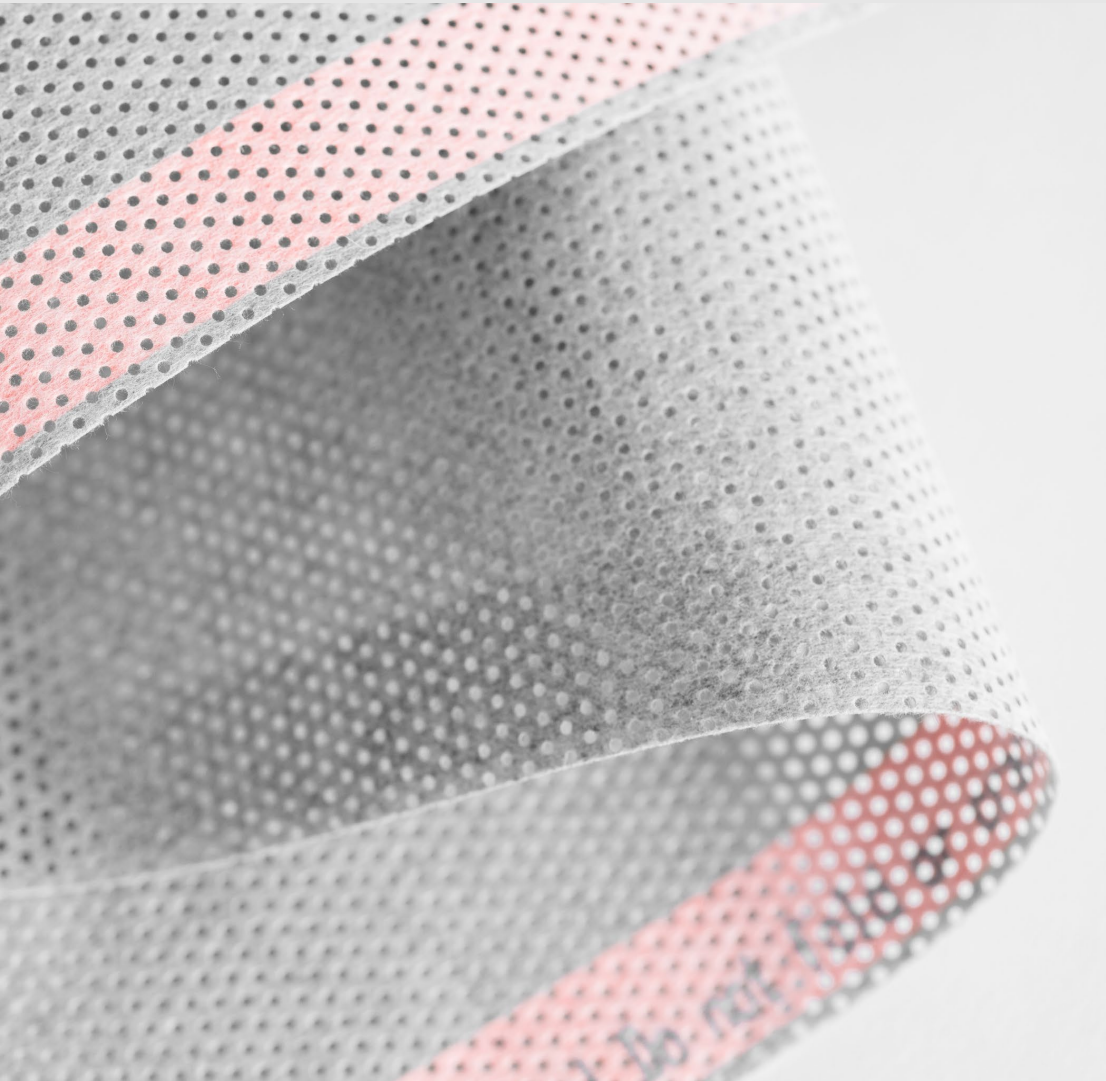
Power Supply 36 V

+

Open Interface
for control engineering

Problem-free integration of the ælectra system into a technical environment

ælectra AT A GLANCE



Carbon + PET = electrical resistance

Conversion of electrical energy into 100% heat

100% adaptable to the property through
different performance variants

Radiant heat for the best feel-good climate

Long service life + maintenance-free

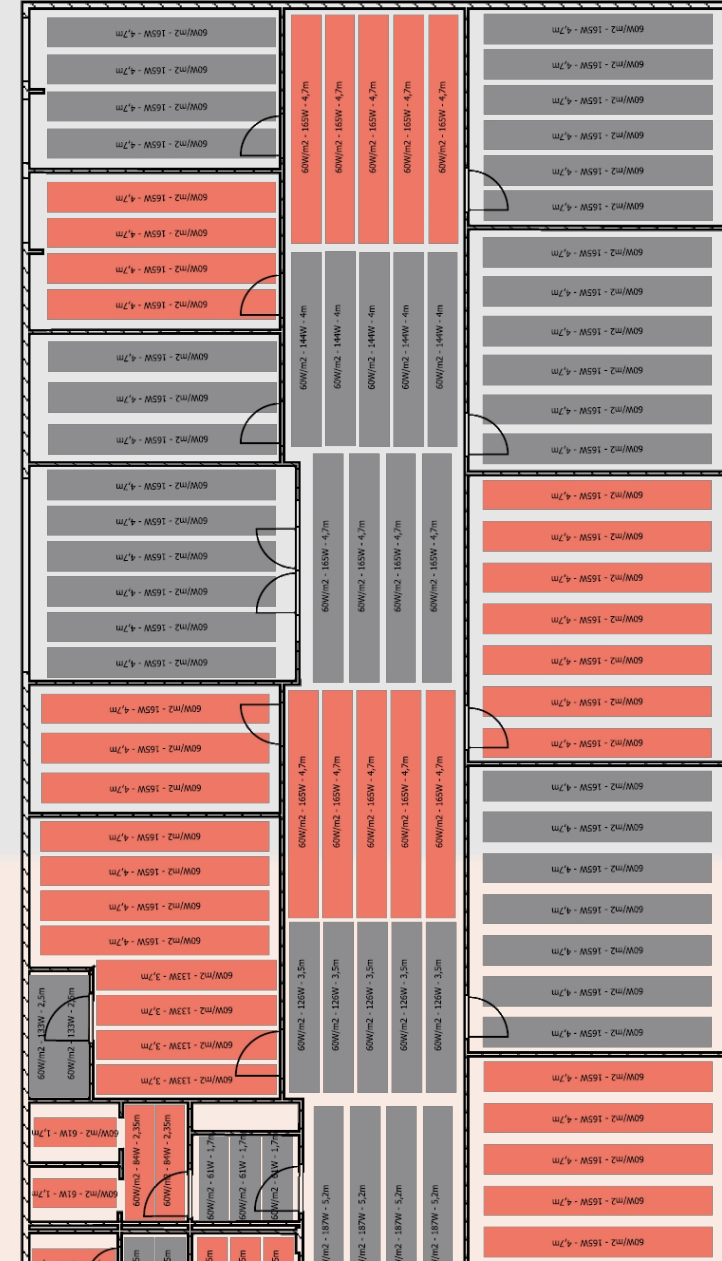
ADAPTABLE

Modular & precise control for heating-on-demand

Maximum accuracy of fit between heat demand and installed power

Thin and flexible structure for easy installation on walls, ceilings and under the floor

ælectra adapts to requirements - not the other way around



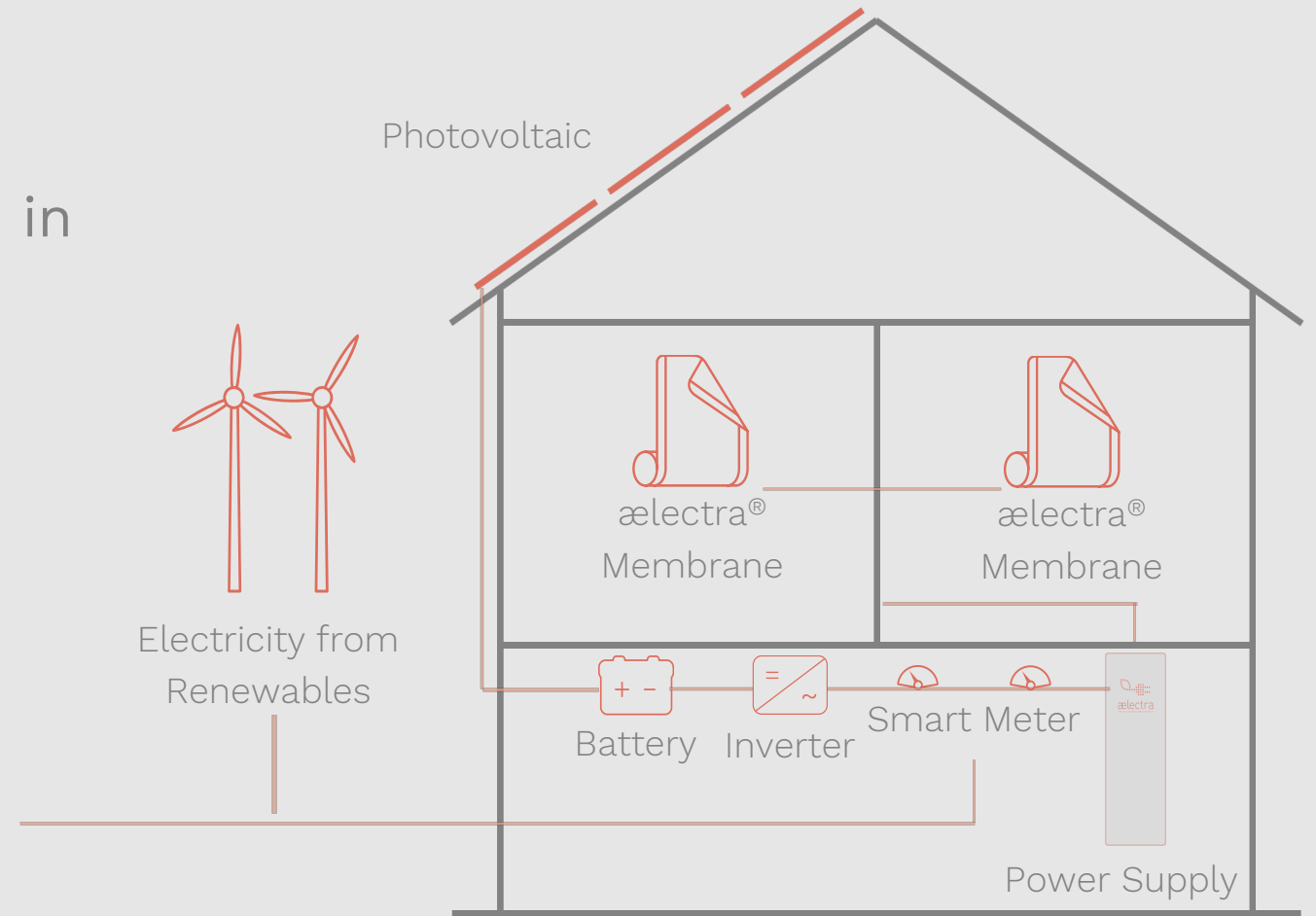
COMPATIBLE

100% compatible with all stakeholders in the energy transition

100% open to all future developments

100 % digital and Smart-Home-Ready

100% emission-free in operation with renewable energies



ælectra is the technical answer to the challenge of sector coupling

SCALABLE

Demand-Side-Management

Contribution to grid stabilization

New, CO₂-free district heating

Smart Neighbourhood / Smart City



ælectra enables sustainable solutions for neighbourhoods and power grids

ENTITLED FOR FUNDING

Conformity with Directive 2010/31/EU on the energy performance of buildings

German efficiency standards (GEG) are achieved

Funding is possible by German development bank KfW

STANDARD BUILDING INSULATION	STANDARD BUILDING TECHNOLOGY	ALTERNATIVES HOT WATER SYSTEM	ACHIEVABLE EFFICIENCY STANDARD
KFW 55	ælectra heating photovoltaic heat recovery	hot water heat pump	KFW 55
		heating rod	GEG
		continuous-flow water heater	GEG
KFW 40	ælectra heating photovoltaic heat recovery	hot water heat pump	KFW 40
		heating rod	KFW 55
		continuous-flow water heater	KFW 55
KFW 40plus	ælectra heating photovoltaic heat recovery battery	hot water heat pump	KFW 40plus
		heating rod	KFW 55
		continuous-flow water heater	KFW 55

ælectra fits into EU/German efficiency standards and funding programmes

FUTURE IN KAP VERDE

Replacement of Air Conditioning Heating

CO2-free heating by usage of fossil free electricity

Heating of buildings with low heat load

Heating-on-demand in tourist buildings and for commercial use



CONTACT



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