



# ENERGIFY

ENERGISE YOUR PROCESS



To fulfil the requirements  
of the Energy Efficiency  
Act (EnEfG)

\*applicable only in Germany

Improve your  
company's energy  
efficiency now!

Reduce energy costs by  
converting pressure  
differences into electricity!

A PRODUCT OF



# OPTIMISED STEAM PROCESSES: LOWER COSTS – LESS CO<sub>2</sub>

**Sustainability is more important than ever.  
ENERGIFY optimises industrial steam processes  
and reduces external energy demand.**

Our patented technology reduces energy procurement costs by converting pressure differences and inlet pressures in steam networks, starting from as low as 0.5 bar, into electricity. Unused pressure and thermal energy are converted into electrical power via a generator integrated in a rotary piston expander unit.

After this process, the steam reaches the required pressure level for downstream consumers and heat exchangers.

ENERGIFY's technology significantly reduces your external energy demand and CO<sub>2</sub> emissions.



 **Power generation from pressure differences  
as low as 0.5 barg pressures**

Application example in a  
dairy in Coesfeld

# NEXT LEVEL TECHNOLOGY: EASY TO RETROFIT

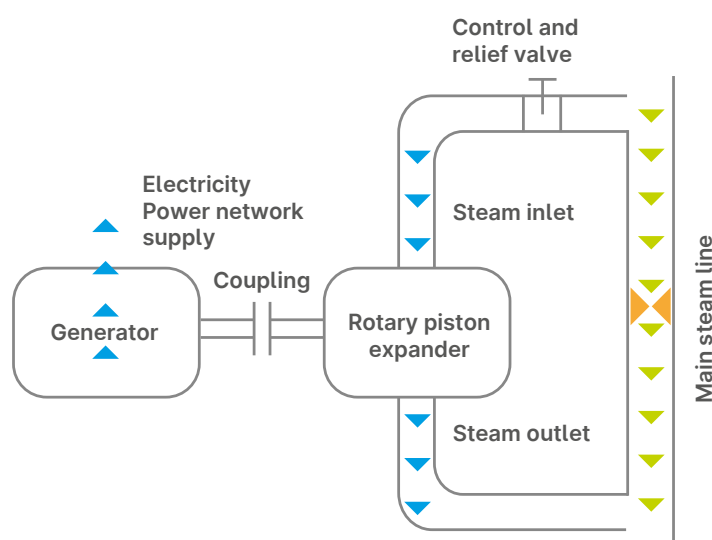
**ENERGIFY** can be integrated into all steam networks and is compatible with various types of steam generation systems. The system enables a reduction in external electricity procurement without disrupting ongoing production processes.

**Good to know:** The electricity generation costs of the ENERGIFY system are significantly lower than those of solar or wind power systems. Depending on local conditions within the steam

network, investment subsidies may be available, and in some cases, partial refunds of energy taxes can be obtained.

## Product description

- ✓ Output from 10 kW to 1,000 kW
- ✓ Inlet pressure up to 15 barg
- ✓ Pressure differences from 0,5 barg can be utilised
- ✓ Steam quantity up to 20 tonnes per module
- ✓ Can be used with saturated steam, wet steam and superheated steam



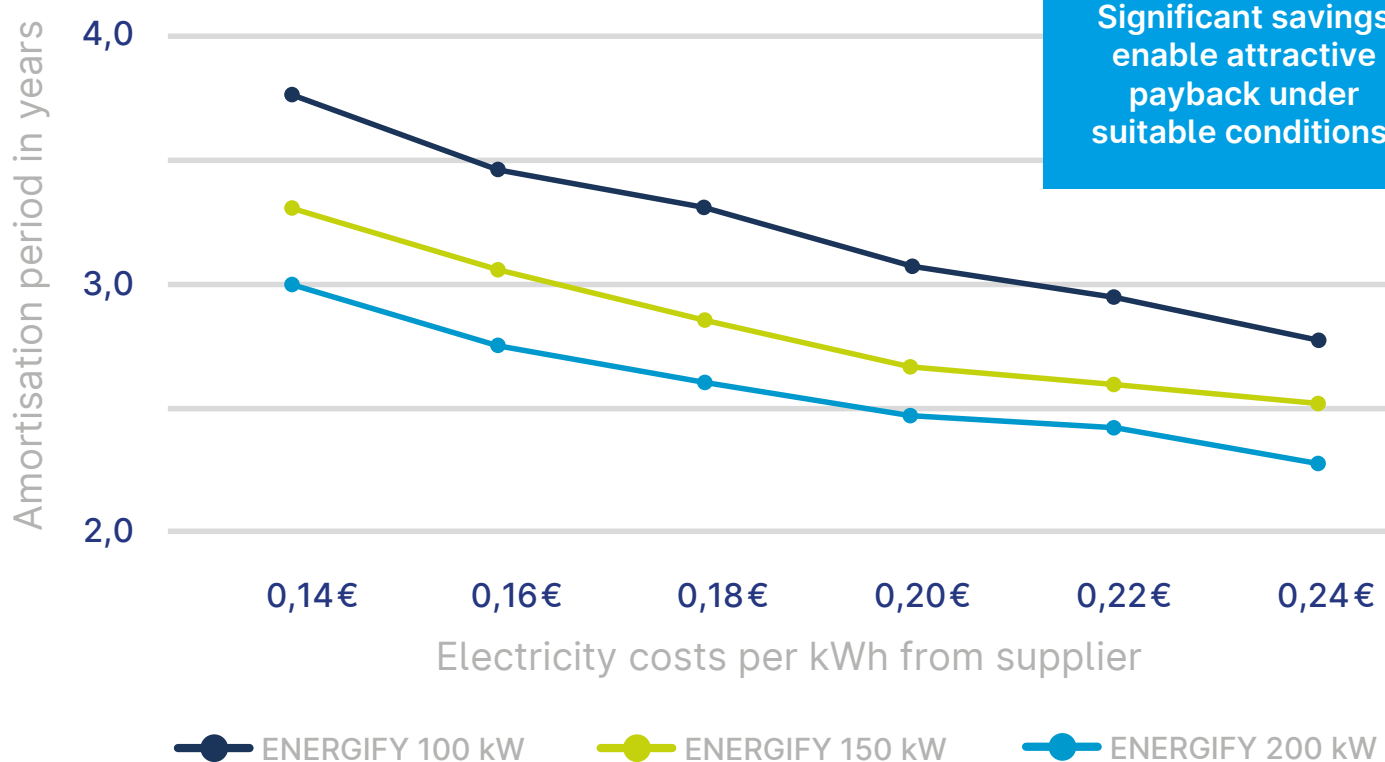
Technical data	Pressure reducing station	Pressure relief before condensers
Inlet pressure	4 barg	1.5 barg
Outlet pressure	2 barg	-0.5 barg
Steam mass flow	17,000 kg/h saturated steam	5,000 kg/h saturated steam
Electrical output	246 kW	132 kW
Generated electrical power	1.600 MWh/a	858 MWh/a
CO <sub>2</sub> savings	approx. 695 t/a	approx. 380 t/a

Practical examples

# EFFICIENCY THAT CONVINCES!

Due to the considerable savings effects, short amortisation periods can be achieved – even without state subsidies.

## Amortisation of Various System Sizes\*



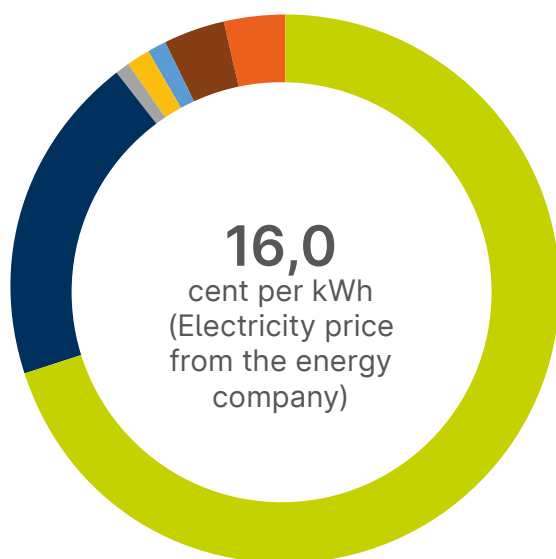
## Benefit from funding and investment programmes

We support you in analysing which funding programmes are suitable for improving your energy efficiency.

\*Scenario calculations based on various system sizes, calculated without grant supplement, energy tax rebates and levies on self-generated electricity. A grant supplement or an energy tax rebate can further improve economic efficiency significantly.

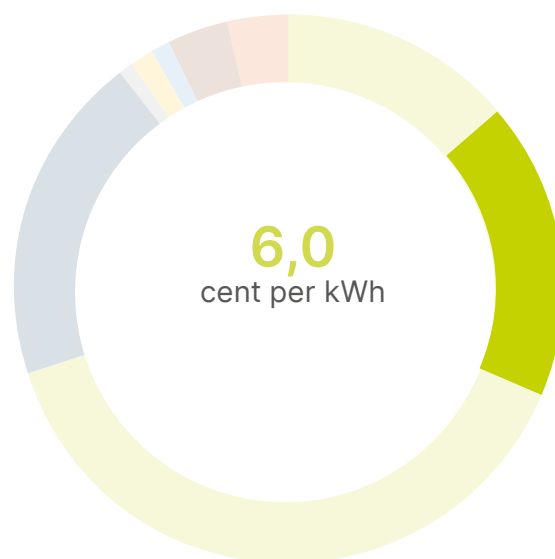
# USE STEAM EFFECTIVELY, SAVE COSTS!

## Baseline



Conversion of  
pressure differences  
into electricity

## Result with **ENERGIFY**



Power generation; distribution	<b>11,22 ct</b>
Network charge	<b>3,12 ct</b>
Licence fee	0,11 ct
KWKG surcharge	<b>0,26 ct</b>
§ 19 StromNEV surcharge	<b>0,16 ct</b>
Offshore-network surcharge	<b>0,59 ct</b>
Electricity tax	<b>0,54 ct</b>

Exemplary data

Power generation; distribution	<b>6,0 ct</b>
Network charge	n/a
Licence fee	n/a
KWKG surcharge	n/a
§ 19 StromNEV surcharge	n/a
Offshore-network surcharge	n/a
Electricity tax	n/a

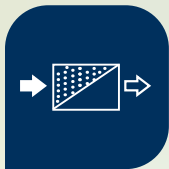
**Contact us! We will be pleased to advise you.**

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# CFT – BREATHE THE DIFFERENCE

Since 1999, CFT GmbH Compact Filter Technic has been supporting its customers in mining and tunnelling with comprehensive know-how in the field of dust extraction and ventilation technology as well as air heating and cooling. Since 2022, we have been ensuring our 'Made in Germany' quality standards for you from our new headquarters in Marl (NRW) on more than 7,500 m<sup>2</sup> of production space – including an innovative fan test stand.

CFT GmbH is part of the internationally operating CFH Group. The holding company bundles several subsidiaries and associated companies under its umbrella, which have one thing in common: excellent engineering services that enable innovative solutions in the field of air at the workplace as well as in the field of energy and the environment, intersectoral in surface and underground operations and around the world.



Dedusting



Ventilation



Air Cooling Systems



Air Heating Systems



Permanent  
Ventilation



ENERGIFY



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 MADE IN GERMANY