



# Aalberts sustainable entrepreneurship

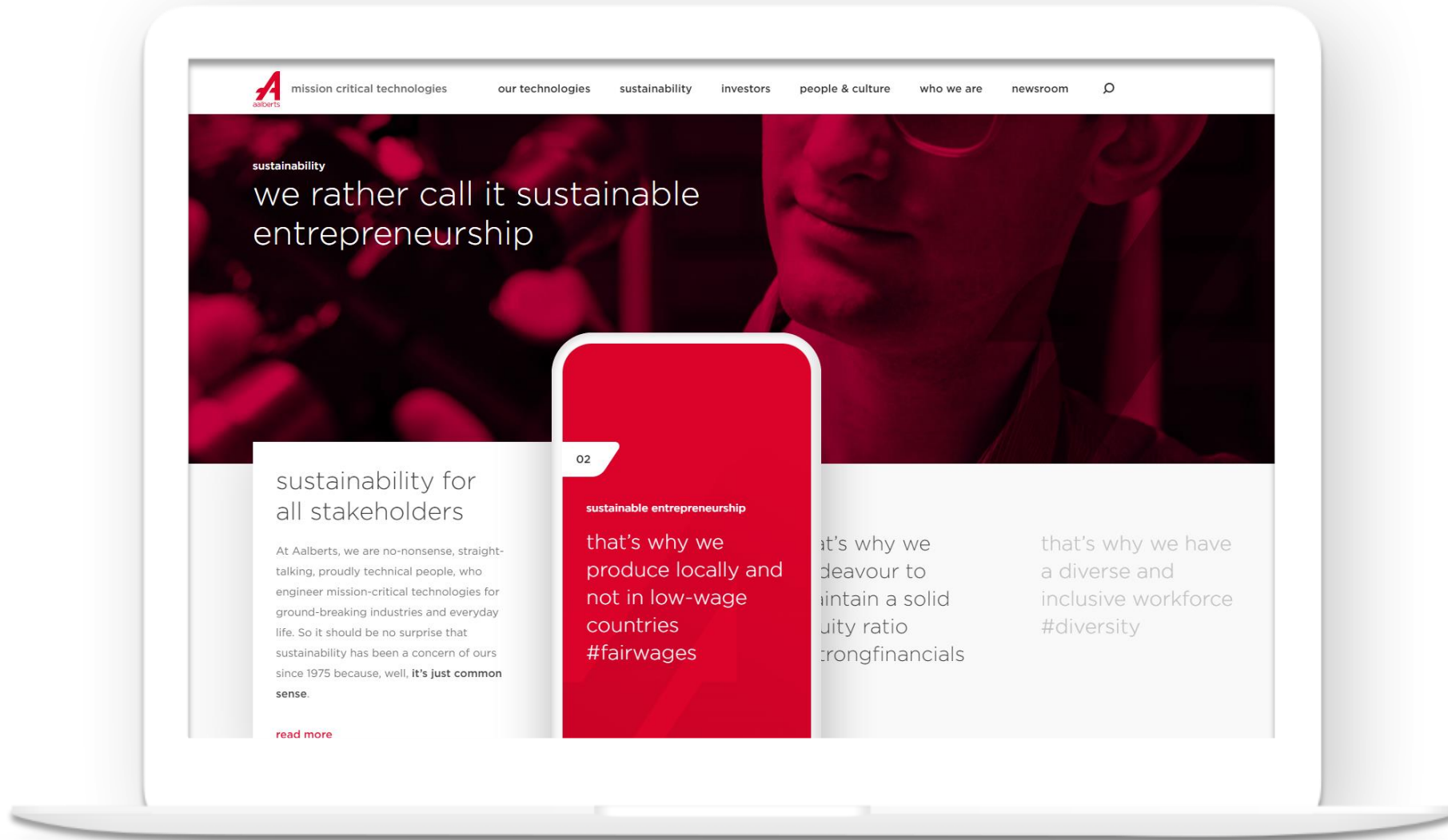
Steffen Schneiders, 25 January 2024

A photograph of several people hugging a large tree trunk in a forest at sunset. The scene is bathed in warm, golden light, with the sun low on the horizon behind the trees. The ground is covered in fallen leaves. The overall mood is peaceful and connected to nature.

this is not about hugging trees

A close-up portrait of a middle-aged man with thinning hair, wearing a dark suit, a light blue shirt, and a purple patterned tie. He is wearing rimless glasses with a blue tint. The background is a plain, light-colored wall.

it is about where the big money flows



mission critical technologies

our technologies

sustainability

investors

people & culture

who we are

newsroom



sustainability

## we rather call it sustainable entrepreneurship

### sustainability for all stakeholders

At Aalberts, we are no-nonsense, straight-talking, proudly technical people, who engineer mission-critical technologies for ground-breaking industries and everyday life. So it should be no surprise that sustainability has been a concern of ours since 1975 because, well, **it's just common sense.**

[read more](#)

02

sustainable entrepreneurship

that's why we produce locally and not in low-wage countries  
#fairwages

that's why we endeavour to maintain a solid liquidity ratio  
strongfinancials

that's why we have a diverse and inclusive workforce  
#diversity

sustainability is a tremendous business opportunity

we engineer mission-critical technologies  
enabling a clean, smart and responsible future

A 3D architectural rendering of a city, showing various buildings, streets, and green spaces. Several buildings are marked with the Aalberts logo. The scene is rendered in a light, monochromatic style with some red highlights for the logos and text boxes.

driving  
sustainable transportation

shaping  
eco-friendly buildings

increasing  
semicon efficiency

enhancing  
industrial niches

you will find Aalberts where technology matters and real progress can be made

## megatrends shaping our future

### urbanisation

strong need for comfortable and healthy buildings and sustainable transportation

### energy & resource scarcity

saving energy, lowering waste, reshoring and making materials lightweight and durable

### internet of things

accelerating breakthroughs enabling autonomous driving, smart buildings, industry 4.0

shift towards co-development, connectivity and integration



# our impact






# drive sustainable entrepreneurship

SDG rate  
(%)  
>70%




## SDG impact increased to 68%

### mission-critical technologies




hydronic flow control

creating energy savings




integrated piping systems

hygienic distribution of water



advanced mechatronics

acceleration of technological breakthroughs



surface technologies

lifetime extension and lightweight materials



### our playing field

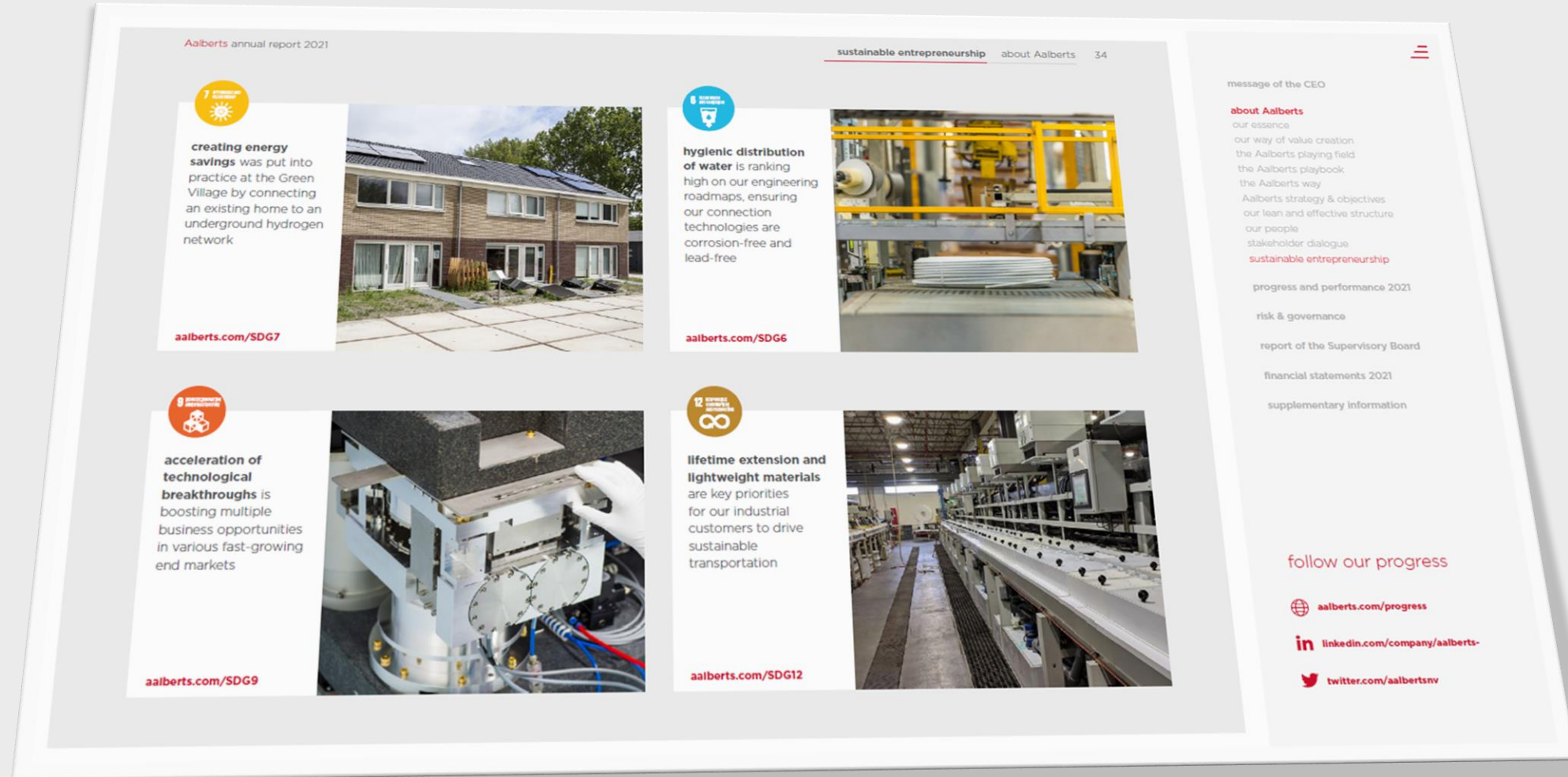
eco-friendly buildings

semicon efficiency

sustainable transportation

industrial niches

we engineer mission-critical technologies enabling a clean, smart and responsible future



## shift towards electrification of vehicles



## higher specification of materials



sustainable entrepreneurship about Aalberts 34



hygienic distribution of water is ranking high on our engineering roadmaps, ensuring our connection technologies are corrosion-free and lead-free

[aalberts.com/SDG6](https://aalberts.com/SDG6)



lifetime extension and lightweight materials are key priorities for our industrial customers to drive sustainable transportation

[aalberts.com/SDG12](https://aalberts.com/SDG12)



message of the CEO

### about Aalberts

our essence  
our way of value creation  
the Aalberts playing field  
the Aalberts playbook  
the Aalberts way  
Aalberts strategy & objectives  
our lean and effective structure  
our people  
stakeholder dialogue  
**sustainable entrepreneurship**

progress and performance 2021

risk & governance

report of the Supervisory Board

financial statements 2021

supplementary information

follow our progress





 [aalberts.com/progress](https://aalberts.com/progress)

 [linkedin.com/company/aalberts](https://linkedin.com/company/aalberts)

 [twitter.com/aalbertsnv](https://twitter.com/aalbertsnv)















## net zero carbon roadmap

	focus	projects per business team	2022	2022-2026	2040	net zero carbon 2050
scope 1+2	 <b>energy use</b> (in CO <sub>2</sub> intensity)**	<ul style="list-style-type: none"> <li>• drive energy efficiency</li> <li>• use renewable energy</li> </ul>	progress ▼ 29%  versus 2018	target ▼ 30%  versus 2018		
scope 3	 <b>raw materials, waste</b>  <b>travel, transport</b>  <b>end of life</b>	<ul style="list-style-type: none"> <li>• reduce, reuse, recycle</li> <li>• travel consciously</li> <li>• perform life cycle and circular design assessments</li> </ul>	measurement	target setting		

\* FY2020  
 \*\* tonnes CO<sub>2</sub> divided by total revenue in EUR million

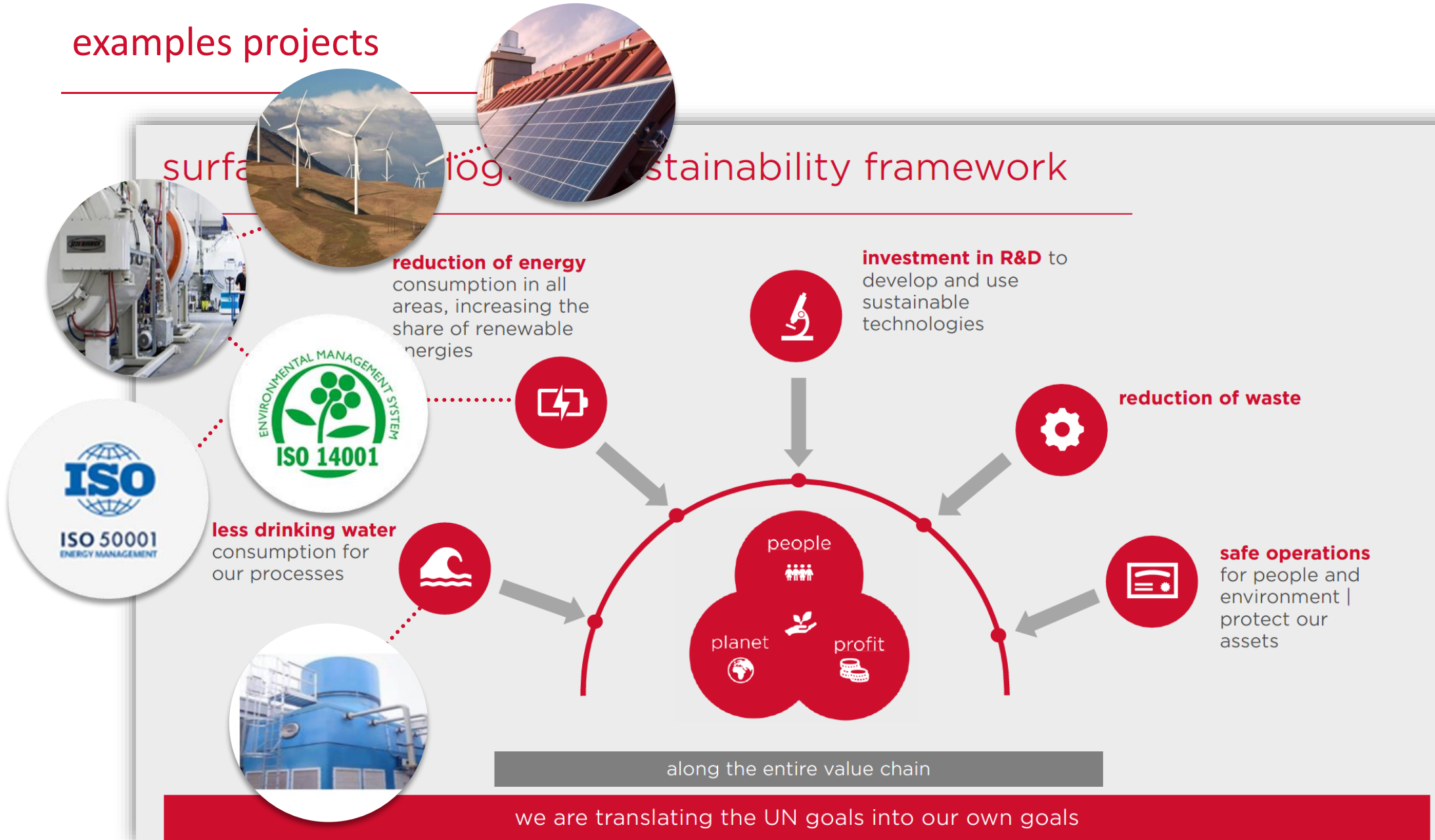
committed to be net zero by 2050 or earlier

# sustainability – strategic goals and measures

<p>strategic goals</p> 	 <p>save drinking water</p>	 <p>save energy / renewable energies</p>	 <p>invest in R&amp;D</p>	 <p>reduce waste</p>	 <p>safe operations</p>
<p>measures / lever process and site</p> 	<ul style="list-style-type: none"> <li>○ expansion of closed internal circulating water systems</li> <li>○ recirculation of purified process water into the water cycle</li> <li>○ implementation of reversed rinsing processes</li> </ul> 	<ul style="list-style-type: none"> <li>○ reduction of energy demand in all areas, e.g. via new burner</li> <li>○ heat recovery systems and heat exchangers</li> <li>○ expansion of share of energy demand through renewable energies</li> </ul> 	<ul style="list-style-type: none"> <li>○ technologies to allow lightweighting production</li> <li>○ spot plating to reduce heavy metal consumption</li> <li>○ accelerated DNC process to reduce cycle and energy consumption</li> </ul> 	<ul style="list-style-type: none"> <li>○ recycling of nickel placenta</li> <li>○ substitution of hazardous substances</li> <li>○ joint blister development with our strategic partners</li> </ul> 	<ul style="list-style-type: none"> <li>○ automated and ergonomically adapted workplaces</li> <li>○ successful risk management</li> <li>○ state-of-the-art PPE</li> <li>○ structural safety walks</li> </ul> 

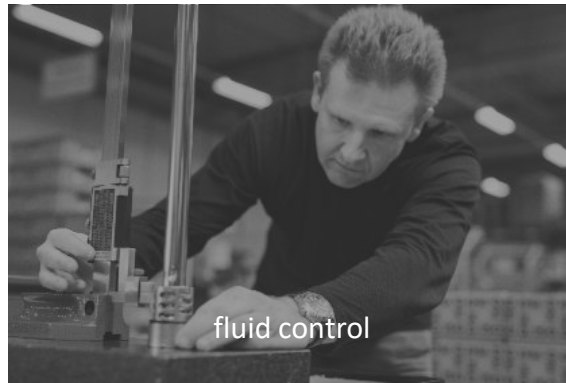
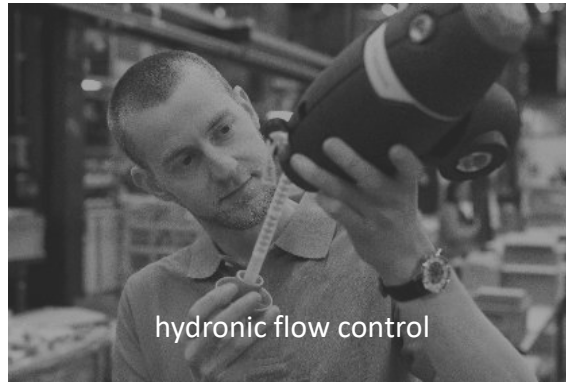
# examples projects

## surfacing technology sustainability framework



# technologies

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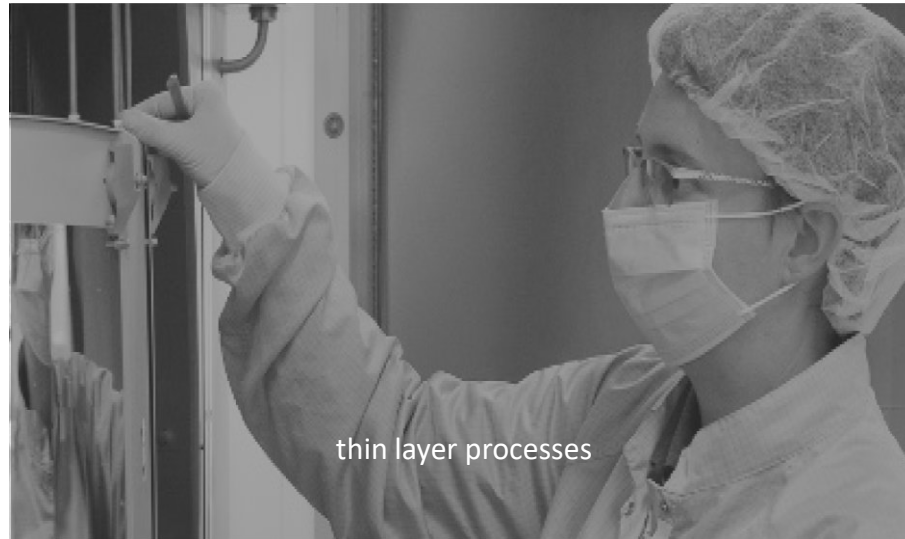


our technologies impact everyday life

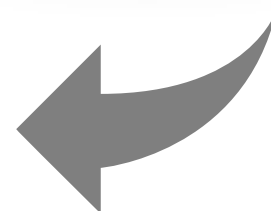
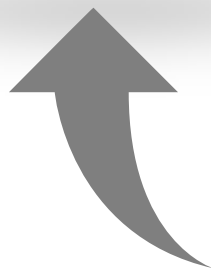
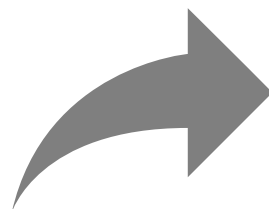


# processes

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# realised energy saving projects



	Oude situatie		Nieuwe situatie		Besparing
	[kW]	[Nm <sup>3</sup> ]	kW	[Nm <sup>3</sup> ]	[%]
AL1	335	55.374	202	33.545	39%
AL2	100	15.937	100	15.937	0%
<b>Totaal</b>	<b>435</b>	<b>71.311</b>	<b>302</b>	<b>49.482</b>	<b>31%</b>

process heat recovery for heating work environment

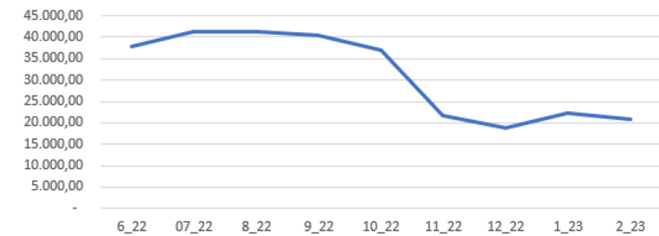
# realised energy saving projects



Saving >210.000kWh = 3,5%/year

cos  $\varphi$  improvement on main electricity switches

# realised energy saving projects

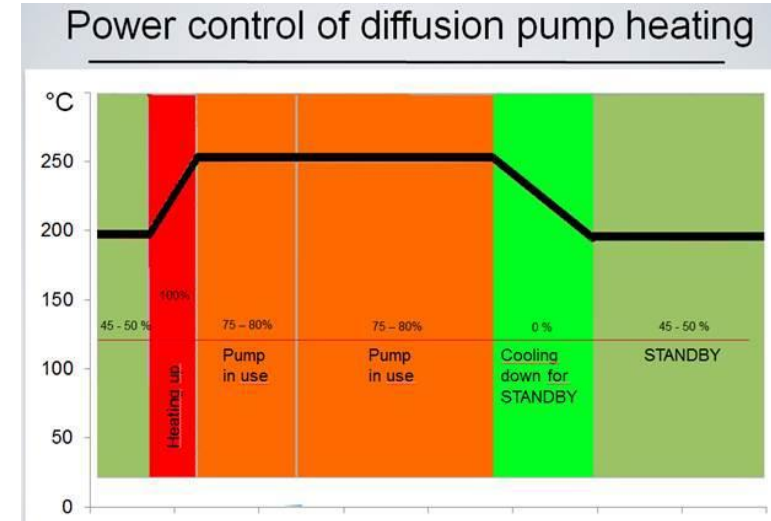
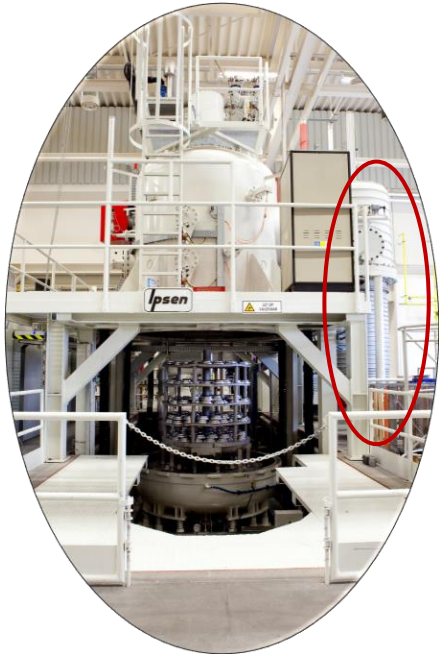


Adjust process settings: cleaning solution -18°C  
vapor setting -5°C

Saving 20.000kWh/month =50%  
4% of total consumption

lowering cleaning process water temperatures

# realised energy saving projects



Saving approx 120.000kWh / year  
2% of total consumption

automized shut down of equipment pumps



sustainable.

performance.

annual report 2022







thank you