



Rethink energy

# Transform your business

with efficient energy solutions

Into a sustainable future with Re²



# Our mission

## >> Rethink energy

**Experienced energy experts  
pioneering the industry for  
over 20 years**

Our company was founded in 2004 as the “Renewable Energies” division the Spanner group. We started with the production of pellet heating systems for well-known boiler manufacturers, then in 2008 we laid the foundation stone for our proven biomass power plant systems generating energy from waste materials.

With more than 1,000 systems installed globally, we are the leading manufacturer in the industry of decentralised biomass and residue gasification.

From 35 kW<sub>el</sub> to several megawatts we offer energy systems that are perfectly tailored to the needs of our customers. We supply you with the entire system and support services you need, from the fuel dryer, proven gasifier and CHP unit, conveyor, discharge technology and intelligent control, to after-sales care and energy supply contracting services.

Walk the path together with us to a sustainable future!



**THOMAS BLEUL**



**DR. HARALD DINTER**

**Managing directors  
from Spanner Re<sup>2</sup> GmbH**

# Fuel of the future

## We refine residues

Whether prepared roadside greenery, residual forest wood from thinning, beetle wood, nut shells and waste wood or residual fractions produced in the sawmill: our systems convert residual materials into valuable energy. Thanks to the robust construction and innovative system technology, a wide variety of input materials in the form of wood chips can be used as an energy source. This also applies to high-calorie plastic waste, which is usually landfilled without any further energy yield and can be added to our plants.



**Forest residues wood**



**Waste wood or residual fractions from wood processing**



**Fruit crates or paletts**



**Roadside greenery**



**SCAN ME**

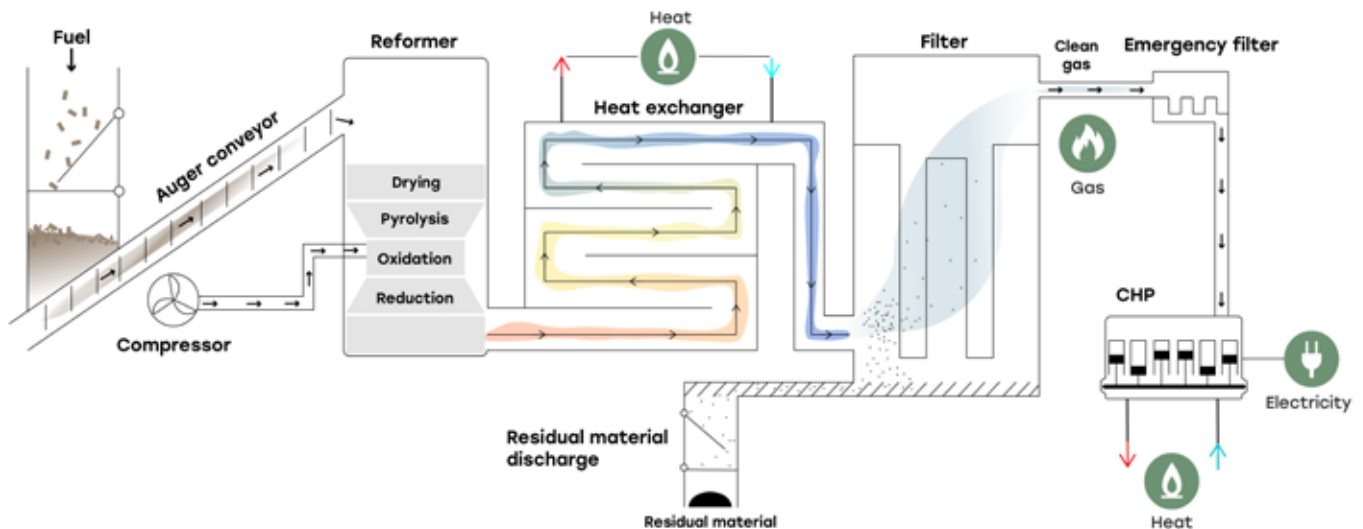
All about Re<sup>2</sup> energy from residues

With our resource-saving energy systems, you can round off your value chain sustainably and economically. Find out more about the energy potential of your waste materials!

# Re<sup>2</sup> system technology

Proven 1,000 times over

The central step takes place in the reformer: In a thermochemical process, in the reformer, direct current operation converts the fuel into a particularly clean natural gas. A generator produces electricity from it. Energy is also generated in the form of heat. Alternatively, the gas can also be used directly – e.g. for other industrial processes.



## Advantages



### Clean & cheap energy

Our systems produce electricity and heat in an environmentally friendly way (or syngas) if you require it.



### We deliver complete solutions

From dryer, gasifier, suitable CHP unit, via conveyor systems and control technology - you receive everything from a single source.



### Performance matched to your needs

Our modular system structure enables a performance range from 35 kW<sub>el</sub> to several Megawatt.



### Efficient, cost-effective maintenance

Maintenance can be carried out yourself. If needed, our factory customer service team are available to you for support.



### Residues for energy production to use

Our resource-saving technology is on exploitation from residual materials and generates energy from it.

# Full-service supplier

## Transform your business with Re<sup>2</sup> energy solutions

Optimise and simplify your energy process from the pre-installed biomass power plant to the perfectly matched fuel drying system and customised conveying and discharge technology directly from our modern factory in Neufahrn i.NB.

- ✓ **Container solution: Re<sup>2</sup> EnergyBlock**
- ✓ **Conveyor and discharge technology**
- ✓ **Fully automatic fuel dryer**



**SCAN ME**

Everything from a single source for your energy

As a full-service provider, we are at your side from planning, production and commissioning through to after-sales service. We offer you a fully comprehensive infrastructure for your biomass power plant requirements!

## Our Biomass power plants

### Series production & expandable

Our series-produced system models can be combined to increase performance. They are very good at partial load and can only be operated seasonally. Our systems are manufactured to the highest quality standards in our factory in Neufahrn, Lower Bavaria.

HKA 35	HKA 50	HKA 70	HKA 300	HKA 700
35 kW <sub>el</sub> 79,5 kW <sub>th</sub>	49 kW <sub>el</sub> 106 kW <sub>th</sub>	68 kW <sub>el</sub> 144 kW <sub>th</sub>	285 kW <sub>el</sub> 567 kW <sub>th</sub>	700 kW <sub>el</sub> 833 kW <sub>th</sub>



- **All Re<sup>2</sup> system models are scalable according your needs**
- **In many countries there are subsidies for sustainably generated electricity and heat\***

\*In Germany, state funding is possible for HKA 35 and HKA 50 according to the CHP law. No legal claim. The statutory funding guidelines apply. Stand: 02/2024. In the event of deviations, data applies technical data sheet. technical data sheet. We reserve the right to make changes and mistakes..



“

Independence from constantly rising energy costs towards dependable, efficient Re<sup>2</sup> energy at plannable costs.

Herbert Stemp, CEO Wellness hotel Das Stemp

„I have become energy independent“

### Reference customers who accelerate with Re<sup>2</sup>

SAW MILL / HEATING POWER PLANT / WELLNESS HOTEL / AGRICULTURE / INDUSTRY



**SEPP WEBER**

Local heating network & contract drying, electricity for municipal utilities



**WELLNESS HOTEL DAS STEMP\*\*\*\***

Energy self-sufficient with Re<sup>2</sup>



1 MW<sub>e</sub> wood gas project & Periphery in Slovenia



**KIRCHSCHLAG HEATING POWER PLANT**

Green energy for households



**HAGEDORN SAW MILL**

uses leftover wood from operations

# Pellet heating systems from Re<sup>2</sup>

## 20 years of experience & development

We have been the leading force behind innovative pellet boilers for two decades. Our experience goes back a long way as a reliable supplier for well-known boiler manufacturers. With our takeover of the Hapero brand from Austria, we have pushed our boundaries. We have perfected the boilers with our combined expertise. Today, we proudly present not only our proven biomass power plants for the use of residual materials, we also have state-of-the-art Re<sup>2</sup> pellet heating systems.

- Rated heat output from 4 to 100 kW<sub>th</sub>
- All models with particle separators eligible
- Compact, space-saving design
- User-friendly control with touch display
- Automatic cleaning system
- Remote maintenance option
- Intelligent heating circuit management for up to 6 heating circuits
- Intelligent heating circuit management



**Re<sup>2</sup> Pellet boiler 10/15 kW**

**Re<sup>2</sup> Pellet boiler 25/35 kW & cascade**

## Advantages



### Most modern heating technology

Combine state-of-the-art system technology with maximum ease of use. All models are compatible with our filter.



### Your only regional Manufacturer

Production, sales, service and spare parts warehouse at our location in Neufahrn i.NB – we are your direct contact from the region.



### Performance matched to your needs

From 4 to 100 kW thermal: our efficient pellet heating systems provide care in your home and comfortable temperatures.

# Go forward into a sustainable future with Re<sup>2</sup>

## Spanner Re<sup>2</sup> GmbH

 Niederfeldstr. 38  
D - 84088 Neufahrn i.NB

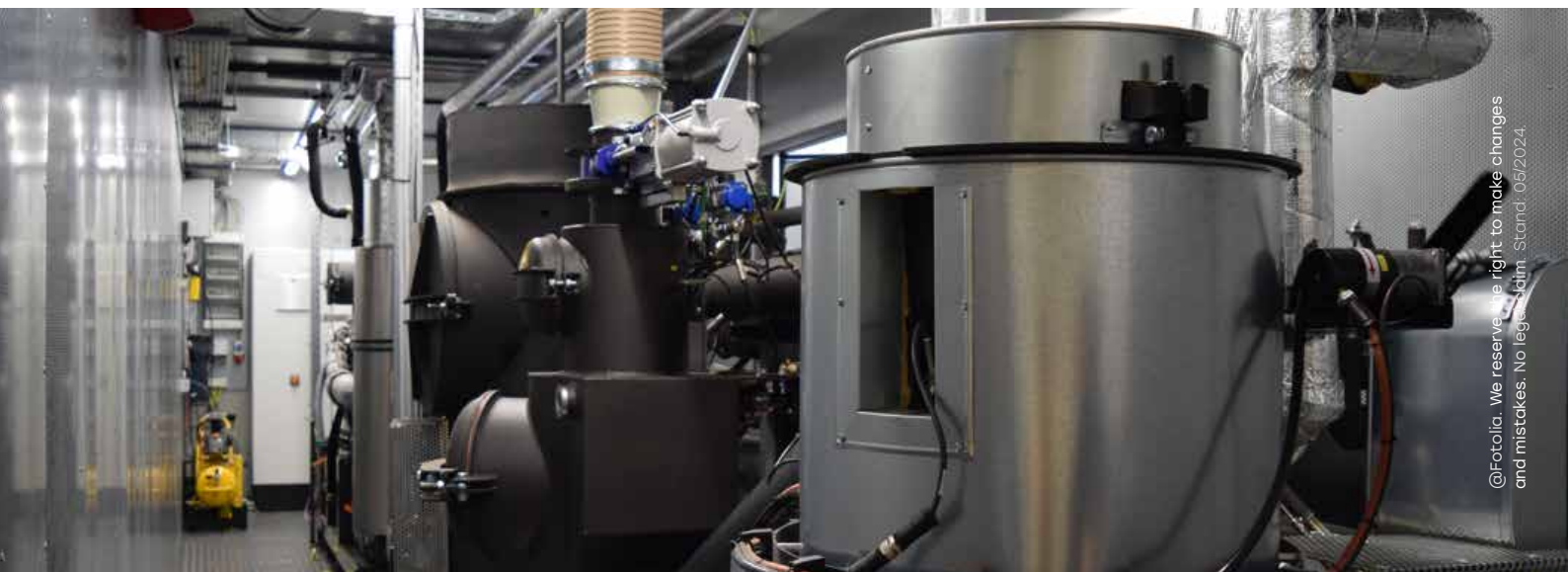


 +49 8773 70798-0

 info@re2.energy

[www.re2.energy](http://www.re2.energy)

 +49 8773 70798-299



@Fotolia. We reserve the right to make changes and mistakes. No legal claim. Stand: 05/2024.



Visit us on

