



Rethink energy

Diesel prices got you down?

Stop overpaying for power.

Up to 80 % lower operating costs per year.
Hybrid gensets from Spanner Re².



Topics

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Potential savings.
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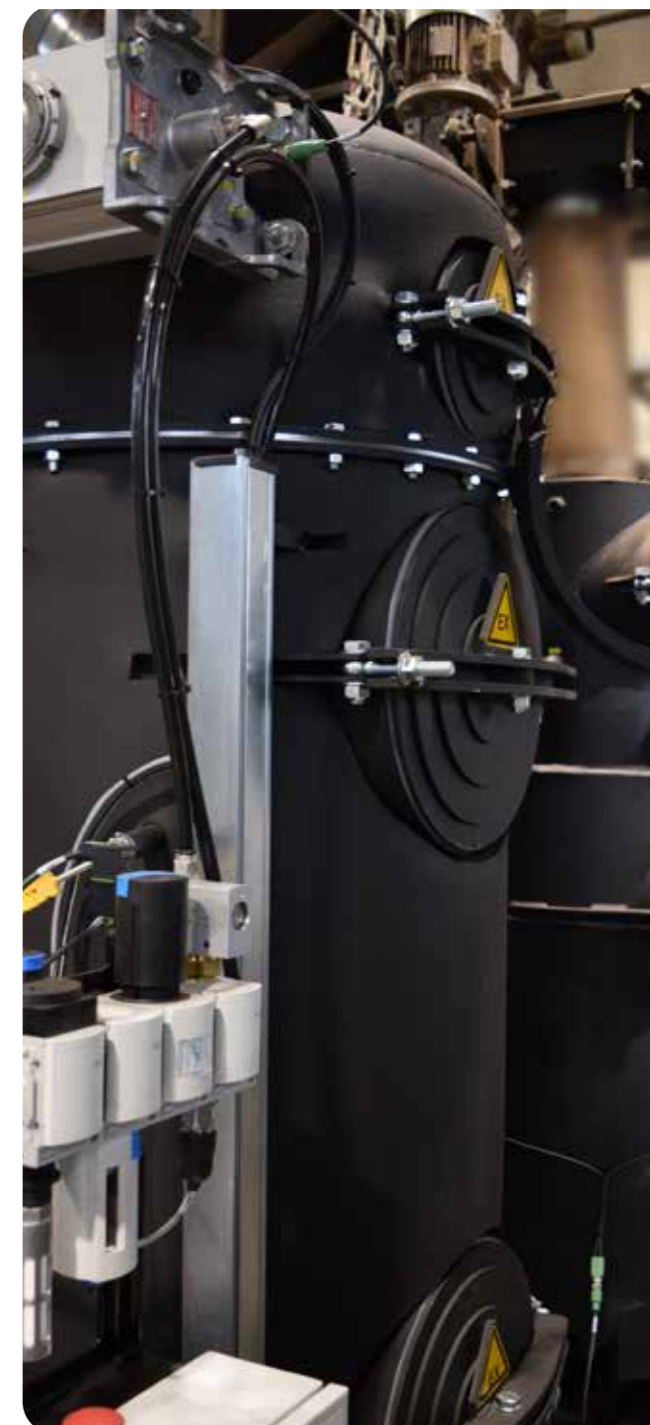
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Hybrid gensets from Spanner Re²

Because paying too much for diesel should be history.

- **Spanner Re² GmbH** is a leading manufacturer of decentralised wood and waste gasification plants.
- We are a **part of the long-established Spanner Group** – a Bavarian metal construction company with 70+ years of experience serving industrial leaders such as BMW, Rational and Porsche.
- Since 2006, we have been developing and producing decentralised energy systems in Neufahrn (Lower Bavaria) - engineered **to generate on demand electricity, heat, or synthesis gas at lower costs.**
- Today, **more than 1,100 systems** are in use worldwide.
- Our systems are designed to replace or hybridize diesel generators and **save you money.**
- **Transform your business.**
Do it with our proven energy solution!



THOMAS BLEUL

CEO
Spanner Re² GmbH

Save up to 80% on annual operating costs for your diesel generator

Reduce energy costs fast by generating your own baseload energy.

Example: Covering the base load with a Spanner Re² genset (550 kW_{el} - compared to your current diesel price).

Diesel price per liter (incl. transport)	Annual operating cost savings using a Spanner Re ² genset (baseload 550 kW _{el})	Savings in % (per year)
€ 1.00	€ -724,453 € per year	up to -56 %
€ 1.50	€ -1,338,564 € per year	up to -70 %
€ 2.00	€ -1,881,983 € per year	up to -74 %
€ 3.00	€ -3,036,513 € per year	up to -81 %

Invest in a turnkey containerised pellet genset with an output of 550 kW_{el}: Starting at € 2.2 Mio.

ROI (by diesel price € 1.00): ~3.5 years
ROI (by diesel price € 2.00): ~1.5 years



Combine your diesel genset with a genset from Spanner Re². Be smart and save money.

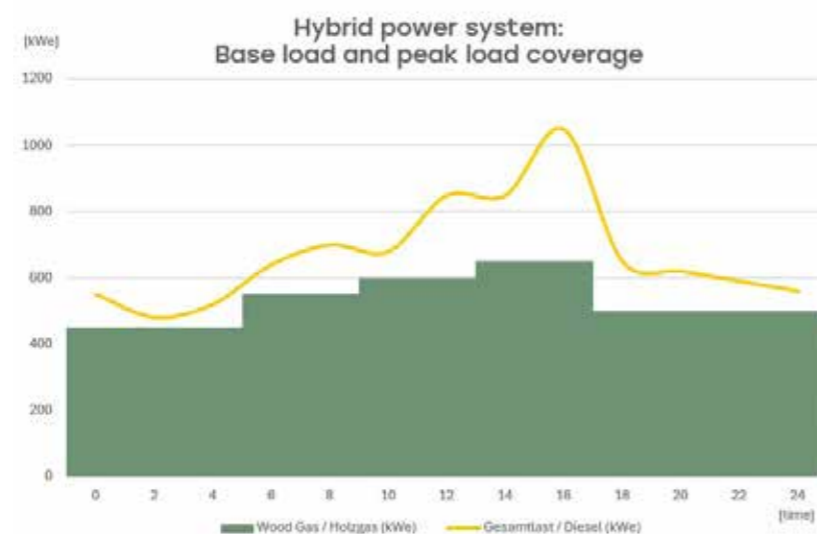


DIESEL GENSETS

+



WOOD GAS BASED GENSET



Your diesel generator is not removed - it simply operates cheaper and greener alongside the Spanner Re² genset.

- ✓ Existing diesel generators remain in place as backup and for peak loads
- ✓ Hybrid genset from Spanner Re² takes over base and medium loads
- ✓ Diesel consumption, running times, and wear are significantly reduced
- ✓ You will save the most on operating costs year on year
- ✓ Biomass and residues can be used as a cheap and easily available fuel source

Who is it suitable for? What can you expect?



Perfect solution
in a field of
70 kW_{el} to 3 MW_{el}

If your energy requirements are between 70 kW_{el} and 3 MW_{el}, get in touch with us and find out how much you could save.



Maintenance
can be carried out
yourself

No factory customer service is required for plant operation and maintenance. If needed, our service team are available to you for support.



Easy start with a
single system.
Scalable technology

Start with a single pellet system rated at 70 kW_{el} and start saving money on day one. Our technology is modular and scalable, allowing you to replace diesel step by step.

Gensets from Spanner Re²

Spanner Re² gensets supply power just as flexibly as a diesel generator – only much cheaper, cleaner, and more independent.

Why our generators stand out:

- Follows your load profile exactly as required
- Fully automatic and reliable
- High continuous power stability
- Fuel flexibility: They generate decentralised energy from a wide variety of regional resources
- Significantly lower operating costs
- Reduced carbon footprint



Why rely on just one fuel?

We offer two fuel-flexible genset options for decentralised power generation:

Pellet genset

Generates electricity from pellets

- globally available
- standardized
- cheap fuel
for example Pellets cost around 30 cents in Asia, compared to 1.00-3.00 Euro per liter diesel.



LocalFuel genset

Generates electricity from regional residual materials such as:

- Forest residues
- Plantation wood
- Roadside greenery
- Waste wood & sawmill by-products
- (Coconut) nut shells
- Kernels
- Husks
- Plastic waste
- And many more



SCAN ME
Fuel for gensets



Kernels (e.g. palms)



Kernels (plums)



PKS (palm kernels shells)



Eucalyptus



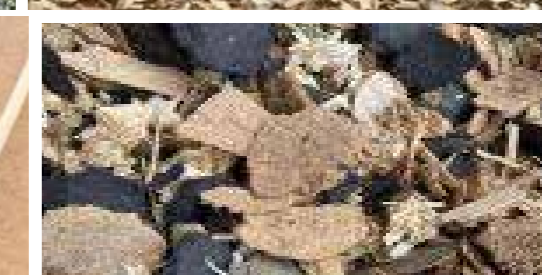
Shredded Eucalyptus



Waste wood A1/A2 pallets, fruit boxes...



MDF or



chipboard remnats



Roadside greenery



Forest residues wood



Plastic waste

Containerised & scalable solution

We call it: Spanner Re² EnergyBlocks

- **Gensets pre-installed** in 40 feet (optionally in 20 feet) containers
- Our **EnergyBlocks** are quick and flexible to set up
- Modular design
- Easily expandable
- Easy-start with a single system, is scalable at any time



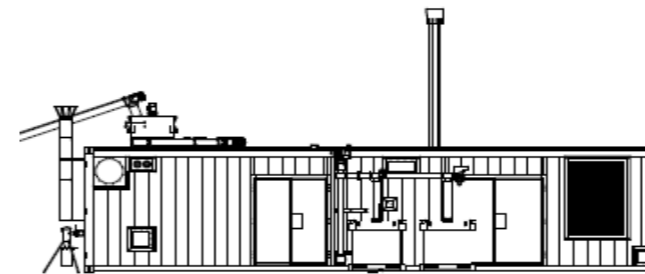
TRIPLE CONTAINER SYSTEM INSTALLED BY FIRST NATIONS (CANADA)



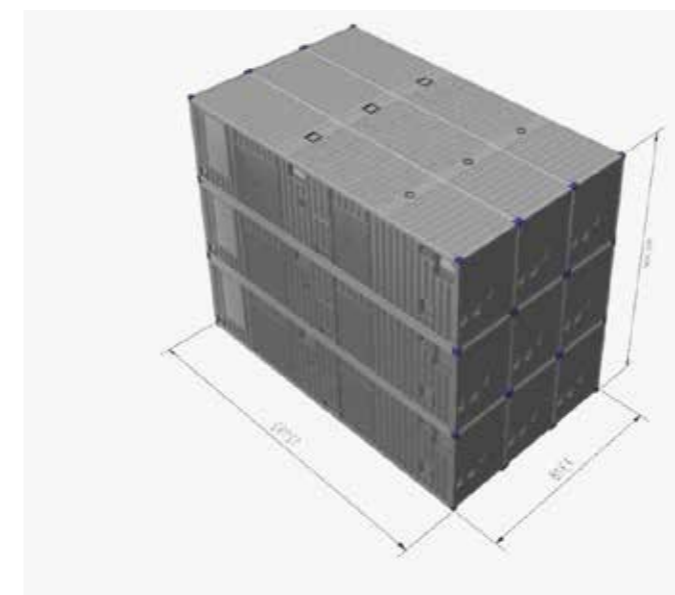
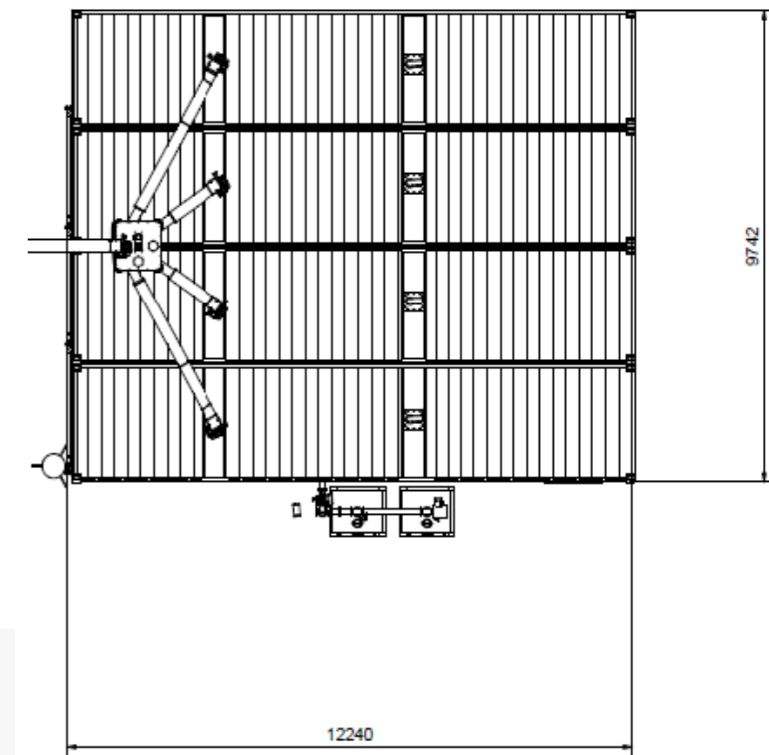
Space requirements

Example: Turn key pellet genset from Spanner Re²

- ✓ It can be installed at ground level, see drawings (total 275 kW_{el})
- ✓ Containers can also be arranged in multiple stacks, when space is limited see drawing (total 612 kW_{el})



Power output: 275 kW_{el}



Power output: 612 kW_{el}

Megawatt project in Thailand

Commissioned in 2022.
1 MW electrical power / 2 MW thermal output



Offgrid project in Congo

Spanner Re² genset container systems reliably supply Yangambi with energy in island mode. The first two containerised energy plants were commissioned in 2022. A further two power plants are planned for expansion in 2025/26.



The region is not connected to the public power grid. With the decentralized energy systems, energy can now be reliably generated from regionally available residual wood.



The containerised power plants were delivered by ship.

Existing CHP unit with ignition jet engine is powered by wood gas

A converted diesel CHP unit was previously operated with Mothermik wood gasifiers. The wood gasifiers were replaced by Spanner Re² units, which supply the existing CHP unit with gas.



The wood gas is produced from regional wood chips.



Triple container system installed by first nations (Canada) - Offgrid

The Canadian community is not connected to the public power grid. Until 2017, electricity was generated exclusively by diesel generators, which had to be imported at great expense. Since 2017, three Spanner Re² power plants have generated decentralised energy.



The electrical output is around 150 kWel. The thermal output is around 350 kWth.

1 Megawatt project in Slovenia

Spanner Re² complete solution with plant technology (1 MW_{el}) and wood dryer.
Waste wood is used as fuel.
Commissioning in 2024.



1,8 Megawatt_e project in Japan

Complete power and heat solution with automatic wood chip dryer from Spanner Re²
Commissioning in 2022.



Japanese industrial giant turns to wood gas and
supplies its greenhouses with energy from wood chips.


Transform your business!

Get free advice now.



Contact us to get a free energy check with saving analysis.

Simply use our [online contact form](#) to get in touch or scan the QR-code on the right side. We look forward to hearing from you.



SCAN ME
Online Contact form



Your contact for hybrid gensets projects



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4 x turn key EnergyBlocks with pre-installed gensets.




Go forward

into a sustainable future with Spanner Re²

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